

Riocentro | Rio de Janeiro | Brazil 26-31 July 2015



INFORMATION BULLETIN N° 2

60th World Statistics Congress of the International Statistical Institute

Riocentro | Rio de Janeiro | Brazil

26-31 July 2015

www.isi2015.org

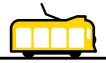




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From the President of the Brazilian Institute of Geography and Statistics

I am delighted to receive you all at the 60th ISI World Statistics Congress – ISI2015, from 26 to 31 July 2015, in Rio de Janeiro. This is a very important year for the statistical systems worldwide, since the indicators for Sustainable Development Goals are being established, which will have a great impact on all of us.

The Congress will bring together members of the statistical community to present, discuss, promote and disseminate research and best practice in every field of Statistics and its applications. The Scientific Programme of the ISI2015 includes a wealth of activities that cover stimulating topics and offer delegates innovative and well-balanced presentations, as well as plenty of opportunities for discussion and exchange.

A rich and exciting Social Programme has also been developed, with plenty to see and enjoy for participants and their accompanying persons, hoping to make your trip to Rio and taking part in ISI2015 a truly unforgettable experience.

I am confident that all the ingredients are in place to ensure that the 60th ISI World Statistics Congress will be a memorable statistical event!

Dr. Wasmália Bivar



From the President of the International Statistical Institute

Dear Participants:

Welcome to Rio de Janeiro and the 60th ISI World Statistics Congress! The WSC is the flagship event of the ISI and its family of Associations, and it has a long tradition. The first WSC (called Biennial Session then) was held in 1887 in Rome, and 58 others have been held in different cities

around the world since then. The ISI itself is celebrating its 130th anniversary this year.

The 60th WSC promises to be an outstanding event. The scientific program will cover the broad spectrum of statistical areas represented within the International Statistical Institute (ISI) family. We will be hearing about cutting-edge research, state-of-the-art practices, emerging developments with challenges and opportunities, and discussions on key societal issues where statistics plays a pivotal role. There are close to 250 invited and special topics sessions with well over 850 presenters and discussants. In addition, there will be about 400 contributed paper presentations.

Hal Varian, Chief Economist at Google, will deliver the President's Invited Keynote Lecture. The program also includes the Karl Pearson and Mahalanobis Lectures and presentations by student winners of the Jan Tinbergen awards as well as other award winners.

We have introduced a number of special features to this WSC: Invited Sessions organized by Association Presidents to showcase developments in various areas, Journal Invited Sessions organized by editors, Special Invited Lectures by distinguished statisticians, and presentations by Association Presidents on 'State of the ISI Family'. In addition, there will be daily Lunchtime Roundtable Discussions focusing on selected topics. The structure of the technical program is also different this time, with sessions of varying lengths to allow for more flexibility.

The social program will be just as exciting with the Opening Ceremony and Reception on Sunday, Farewell Dinner and Closing Ceremony on Friday, and a special Rio by Night dinner during the week. Breakfast and lunch times will be busy with administrative meetings of ISI committees and Associations as well as open meetings organized by different groups.

We are greatly indebted to IBGE for organizing this WSC and for their support to the ISI. Muito obrigado!

I hope your participation in this Congress is most enjoyable and that you will also take the opportunity to enjoy the rich tradition and beauty of Rio and Brazil!

With warm regards, Vijay Nair The 60th ISI World Statistics Congress - ISI2015 - is hosted by the Brazilian Institute of Geography and Statistics (IBGE), the official statistical agency for Brazil.

The following committees worked to plan, organise and run the event.

Scientific Programme Committee (SPC)

The SPC was responsible for the Scientific Programme of the 60th ISI World Statistics Congress. It developed the Invited Paper Sessions (IPS), and coordinated with the Local Programme Committee (LPC) to prepare the Special Topics Sessions (STS) and Contributed Paper/Poster Sessions (CPS).

Name	Country	Role
Francisco Samaniego	USA	Chair
Ananda Sen	USA	Vice-Chair
Nancy Lopes Garcia	Brazil	Chair, LPC
Representatives of Associ	ations	
Byeong Park	Republic of Korea	Bernoulli Society
Rolando Ocampo	Mexico	IAOS
Francisco Carvalho	Brazil	IASC
Bruno de Souza	Portugal	IASE
Christine Bycroft	New Zealand	IASS
Kwok Leung Tsui	Hong Kong	ISBIS
Quanxi Shao	Australia	TIES
At-large members		
Ali Shojaie	USA	Life Sciences and Young Statisticians
Naman Keita	Italy	Agriculture Stats
Oliver Chinganya	Tunisia	Developing countries, capacity building
Regina Liu	USA	Other unrepresented committees and interest groups
Ex-officio		
Vijay Nair	USA	President of ISI
Xuming He	China	Past Chair of SPC
Ada van Krimpen	The Netherlands	ISI Director

Local Programme Committee (LPC)

The LPC was responsible for handling the Special Topic Sessions (STS) and Contributed Paper Sessions (CPS) in coordination with the Scientific Programme Committee. The LPC comprised academics and professionals from a variety of institutions in Brazil.

Chair	
Nancy Lopes Garcia	University of Campinas
Members	
Alexandra Schmidt	Federal University of Rio de Janeiro
Alexsandro Gallo	Federal University of Rio de Janeiro
Audrey Cysneiros	Federal University of Pernambuco
Carla Vivacqua	Federal University of Rio Grande do Norte
Celso Rômulo Cabral	Federal University of Amazonas
Cibele Queiroz da Silva	University of Brasília
Cristiano Ferraz	Federal University of Pernambuco
Denise Duarte Scarpa Magalhães Alves	Federal University of Minas Gerais
Dione Valença	Federal University of Rio Grande do Norte
Enrico Colosimo	Federal University of Minas Gerais
Fernando Moura	Federal University of Rio de Janeiro
Flávio Augusto Ziegelman	Federal University of Rio Grande do Sul
Francisco Louzada Neto	University of São Paulo
Hildete Pinheiro	University of Campinas
Julia Maria Pavan Soler	University of São Paulo
Lucia Barroso	University of São Paulo
Luiz K. Hotta	University of Campinas
Maurício Teixeira Leite de Vasconcelos	National School of Statistical Sciences
Maysa Sacramento de Magalhães	National School of Statistical Sciences
Ruben Klein	Cesgranrio Foundation
Silvia de Paula Ferrari	University of São Paulo
Tufi Machado Soares	Federal University of Juiz de Fora
Vera Tomazella	Federal University of São Carlos

Short Course Committee (SCC)

The SCC developed a short course program to serve the diverse needs of participants.

Chair	
Alicia Carriquiri	Iowa State University
Members	
Lawrence Cox	ISI Council
Pedro Morettin	Bernoulli Society
Mario Palma	IAOS
Tomas Aluja	IASC
Ayse Bilgin	IASE
Mick Couper	IASS
Regina Liu	ISBIS
Yulia Gel	TIES
Liaison with the LOC	
Alinne de Carvalho Veiga	Brazil
Ex-officio	
Liliana Happel	ISI Permanent Office
Steven Heeringa	Past SCC Chair

Lunch Roundtable Discussions Committee (LRTDC)

The LRTDC was responsible for handling the Lunch Roundtable Discussions.

Chair	
John Bailer	USA
Members	
Abubaker Abdulla Al Gifri	United Arab Emirates
Alinne de Carvalho Veiga	Brazil
Fabrizio Ruggeri	Italy
Fred Vogel	USA
James V. Zidek	USA
Larry Cox	USA
Steve Fienberg	USA

National Honorary Committee (NHC)

The National Honorary Committee (NHC) comprised representatives of several key partner organizations that helped to mobilize and engage the statistics community in Brazil to participate in and support the organization of the 60th ISI World Statistics Congress.

Chair	
Wasmália Bivar	Brazilian Institute of Geography and Statistics
Vice-Chair	
Pedro Luis do Nascimento Silva	National School of Statistical Sciences
Members	
Cassio Maldonado Turra	Brazilian Population Studies Association
Francisco Louzada Neto	Brazilian Statistical Association
Ildeu de Castro Moreira	Brazilian Society for the Advancement of Science
José Augusto Coelho Fernandes	National Confederation of Industry
José Francisco Soares	National Institute for Educational Studies and Research
Katherine Hennings	Brazilian Central Bank
Lindolpho de Carvalho Dias	The Brazilian Academy of Sciences
Maurílio Soares de Lima	National Association of Planning, Survey and Statistical Institutions
Milton Ferreira Tito	Rio de Janeiro's Commercial Association
Paulo de Martino Jannuzzi	Ministry of Social Development
Vagner Laerte Ardeo	Fundação Getulio Vargas

Local Organising Committee (LOC)

The LOC comprised staff of the Brazilian Institute of Geography and Statistics (IBGE).

Chair
Pedro Luis do Nascimento Silva
Vice-chair
Sonia Albieri
Members
Alinne de Carvalho Veiga
Andrea Diniz da Silva
Geisa Maria Tavares da Silva
Giuseppe Alessandro de Lima Campo
Izabelle de Oliveira
Leonardo Zechlinski Maya
Márcio Tadeu Medeiros Vieira
Maria Luiza Barcellos Zacharias
Maysa Sacramento de Magalhães
Roberto Neves Sant'Anna
Teófilo de Oliveira e Souza Filho

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ISI Governance

ISI Executive Committee

President
/ijay Nair
President-Elect
Pedro Luis do Nascimento Silva
/ice-Presidents
lohn Bailer
rena Kryzman
Helen MacGillivray
/ictor Pérez-Abreu

ISI Council

2011-2015	2013-2017
Daniela Cocchi (Italy)	Grace Bediako (Ghana)
Lawrence H. Cox (USA)	Alessandro Fasso (Italy)
Stephen E. Fienberg (Canada)	Xuming He (Singapore/USA)
Enrico Giovannini (Italy)	Delia North (South Africa)
Shigeru Kawasaki (Japan)	Byeong U. Park (Republic of Korea)
Aad van der Vaart (The Netherlands)	Fabrizio Ruggeri (Italy)
James V. Zidek (Canada)	Jan Robert Suesser (France)
	Fred Vogel (USA)

Association Presidents 2013-2015

Name	Association
Wilfrid Kendall (UK)	Bernoulli Society
Shigeru Kawasaki (Japan)	IAOS
Paula Brito (Portugal)	IASC
Ido Gal (Israel)	IASE
Danny Pfeffermann (Israel)	IASS
Vincenzo Esposito Vinzi (Italy)	ISBIS
Ron Smith (UK)	TIES

Past President

Jae C. Lee (Republic of Korea)

Institutional Ex Officio Member

Tjark Tjin-A-Tsoi (Director-General, Statistics Netherlands)

Secretary Treasurer

Ada van Krimpen (Director, ISI Permanent Office)

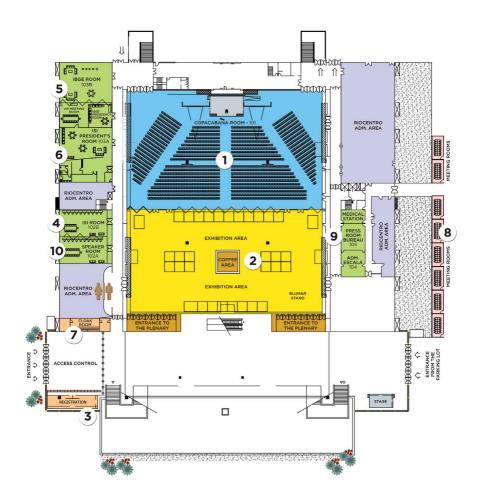
CONFERENCE SCHEDULE

Time			Date			
	Sunday 26 July	Monday 27 July	Tuesday 28 July	Wednesday 29 July	Thursday 30 July	Friday 31 July
00:30-09:00			Ac	Administrative Meetings	tings	
01:01-00:60				Scientific Sessions 1	ns 1	
10:10-10:30	Registration			Coffee break		
10:30-12:30	Special Event			Scientific Sessions 2	15.2	
12:30-14:00	The Data Revolution for Sustainable Development: How to		Lunch	Lunch / Administrative Meetings	Meetings	
14:00-15:40	Make it Happen? (9:30 - 12:30)			Scientific Sessions 3	15.3	
15:40-16:00				Coffee break		
16:00-17:40	Opening Ceremony	Sci	Scientific Sessions 4	4	President's Invited Keynote Lecture (16:00-17:10)	ISI & Associations Awards (16:00-16:45)
17:40-19:00	Cultural Attraction Welcome Cocktail Reception	Events by Invitation			General Assembly (17:15-19:15)	Closing Ceremony (16:45-17:30)
19:00-24:00			Rio by Night (19:00-24:00)			Farewell Dinner (20:30-23:30)

VENUE FLOOR PLANS

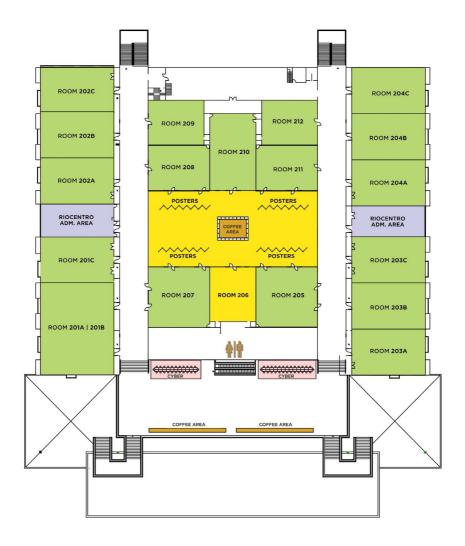
The meeting venue of the 60th ISI WSC is the Pavillion 5 of Riocentro.

1st FLOOR LAYOUT



- 1 Plenary Room 101
- 2 Exhibition Area
- 3 Registration
- 4 ISI Office
- 5 IBGE Support room
- 6 ISI President's Room
- 7 Cloak Room
- 8 Meeting Rooms 1-8
- 9 Press Room
- 10 Speakers Room

2nd FLOOR LAYOUT



SCIENTIFIC PROGRAMME

This printed programme refers to the position as at 9 July 2015.

The Scientific Programme is subject to minor changes due to last minute cancellations and other reasons.

For last minute changes, please see the Daily News during the Congress.

Invited Paper Sessions (IPS)

The IPS are developed by the Scientific Programme Committee (SPC) of the ISI and its Associations. IPS usually consist of 3-4 papers and a discussant invited by the organiser of the Session. This time there are also several Special Invited Paper Sessions comprising a single presentation or presentations of a selection of papers from the various journals of the ISI and its Associations.

The Programme Committe (SPC) selected the IPS to be included in the 60th WSC with due consideration of scientific quality and relevance, diversity of topics and of regional distribution of organisers and speakers.

Special Topic Sessions (STS)

STS are an important component of the Scientific Programme of the WSC. These sessions usually consist of 4-6 papers and possibly a discussant invited by the organiser of the Session. STS were selected by the Local Programme Committee (LPC) also with due consideration of scientific quality and relevance, diversity of topics and of regional distribution of organisers and speakers.

Contributed Paper/Poster Sessions (CPS)

Any person could submit a contributed paper for presentation. Once accepted, contributed papers are presented in one of the following three modes:

- (a) Oral Presentation. The speaker has 15 minutes to present in one of the CPS oral (OR-) sessions.
- (b) Poster Presentation. The presenter has a space to display his/her poster for one day, and should be available at the designated date for on spot discussion, especially during the breaks.
- (c) Poster-Plus Presentation. The presenter has a space to display his/her poster for one day, and should be available at the designated date for on spot discussion, especially during the breaks. In addition, the presenter has an oral spotlight presentation of 5 minutes in a room in the same hall of poster-display to advertise his/her poster.

The submissions were reviewed by the LPC to ensure quality and adherence to the WSC standards. The paper allocation to the different presentation modes and session lengths took into account both the author's preference and programme optimisation.

ADMINISTRATIVE MEETINGS

Time	Date		
	Sunday, 26 July	Monday, 27 July	Tuesday, 28 July
07:30 - 09:00	Meeting with Associations' Presidents and Presidents-Elect Room 209	ISI Committee on Risk Analysis (Room 3) ISBIS EC/Council: Outgoing and Incoming (Room 212)	ISI Scientific Programme Committee for 2017 WSC (Room 3) Women in Statistics Network: Breakfast Event (sponsored by Elsevier) (Room 205) ISI Committee for Statistical Capacity Building (Room 1) ISBIS General Assembly (Room 208) IASS Joint Council (Room 209)
09:00 - 12:30	08:15 - 12:00	Scientifi	c Sessions
12:30 - 14:00		ISI Nominations Committee I (Room 1) ISI Committee for Women in Statistics (Room 3) IASE EC I (Room 209) IASC EC I (Room 212) IASI Council Meeting (Room 5) IFC and Central Banks: Lunch Event - by invite only (Room 202A)	ISI Committee on Agricultural Statistics (Room 209) ISI Committee for Membership Elections (Room 1) ISI Committee for Young Statisticians (Room 3) International Astrostatistics Association & Committee (Room 212) IAOS General Assembly (Room 201C) IASC General Assembly (Room 202A) IASE ISLP Advisory Board (Room 5) ISBIS ASMBI Journal (Room 7)
		Scientific Meetings	
14:00 - 17:40		ISI/RSS Author Workshop Room 206 16:15-17:45	Scientific Meetings
Evening	Opening Ceremony and Welcome Reception Room 101 16:00 - 19:00	Reception for ISI Members Exhibition hall 17:45 - 19:15 Young Statisticians Reception (sponsored by Wiley) Poster area 17:45-19:15	Rio by Night (additional fee event) 19:00 - 24:00

ADMINISTRATIVE MEETINGS

Time			
	Wednesday, 29 July	Thursday, 30 July	Friday, 31 July
07:30 - 09:00	ISR Editorial Board (Room 1) Open Meeting of Delegates from East Asia (Room 212) IAOS EC (Room 3) IASE EC II (Room 209)	ISI Publications Committee (Room 1) Open Meeting of Delegates from the Arab Region (Room 208) Open Meeting of Delegates from Central EurAsia (Room 209) IASS Incoming EC (Room 3)	ISI Nominations Committee II (Room 1) ISI Task Force on Mentoring (Room 3) BS Council Meeting II (Room 209)
09:00 - 12:30		Scientific Sessions	
12:30 - 14:00	Stat Editorial Board (Room 1) Open Meeting of Delegates from South East Asia (Room 207) IASS General Assembly (Room 208) Senson Souncil Meeting I (Room 209) IASE ISLP Open Meeting (Room 210) SCORUS Meeting (Room 212) NSOs and International Statistical Agencies Meeting (Room 211)	Bernoulli Society General Assembly (Room 202A) IASE General Assembly (Room 211) IASC EC II (Room 212) IASS Incoming Council (Room 3) Open Meeting on Mentoring and Collaborations among Universities (Room 208) FENStats Board Meeting - by invite only (Room 201C)	• ISI Advisory Board on Ethics (Room 3) • ISI Committee for Women in Statistics - Meeting of Country Representatives (Room 209) • IASE ICOTS Committee (Room 212) • IAOS 2016 Programme Committee (Room 1)
		Scientific Meetings	
14:00 - 17:40	Scientific Sessions	ISI President's Invited Keynote Lecture, Room 101 16:00 - 17:10	Awards Ceremony Room 201ABC 16:00 - 16:45
		ISI General Assembly Room 101, 17:15 - 19:15	Closing Ceremony Room 201ABC 16:45 - 17:30
Evening			Farewell Dinner (included in registration fee) Riocentro 20:30 - 23:30

27 July 2015, Monday 09:00-10:10

IPS031 Room: 205	Computational complexity of statistical algorithms suitable for analysis of nonstandard big data Organiser and Chair: Francesco Mola What computational complexity theory tells us about some problems in interval data analysis Michal Cerný, Milan Hladik Background subtraction in image segmentation Luca Frigau, Claudio Conversano, Francesco Mola
IPS105 Room: 101	IASS President's Invited Session: Sample Surveys: Past, Present and Future Directions Organiser and Chair: Danny Pfeffermann Sample Survey Theory and Methods: Past, Present and Future Directions Jon Rao Wayne A. Fuller
IPS108 Room: 207	ISBIS - ASMBI Journal Invited Paper Session Organiser and Chair: Fabrizio Ruggeri Sparse Bayesian Latent Factor Stochastic Volatility Models for High- Dimensional Financial Time Series Hedibert Lopes
IPS111 Room: 201AB	Special Invited Lecture: The Evolution of Nonparametric Statistics Organiser and Chair: Francisco Samaniego The Evolution of Nonparametric Statistics Myles Hollander
IPS145 Room: 210	Special Invited Lecture: Large Dimensional Random Matrices - Some Models and Applications Organiser: Vijay Nair Chair: Nancy Garcia Large Dimensional Random Matrices: Some Models and Applications Victor Perez-Abreu
OR-D01 Room: 202A	Statistical Education 1 Functional Training and Its Impact on Development The Statistical Awareness: Prospective from Egypt Waleed Mohammed Latent growth and statistical literacy. Some evidence from Italy Emma Zavarrone, Corrado Crocetta Two activities to improve statistics courses for future mathematics teachers Marcos Magalhäes A comparative study of statistical inference from an educational point of view Manfred Borovcnik, Ramesh Kapadia

IPS003	Financial networks: Statistical inference and probabilistic modeling
Room: 202A	Organiser: Konstantin Zuev
	Chair: Athanasios Pantelous
	Proximity-based networks and statistically validated networks in complex systems
	Rosario Mantegna
	A Network Approach to Financial Stability
	Iori Giulia
	The Maximum Number of 3- and 4-Cliques within a Planar Maximally
	Filtered Graph
	Jenna Birch, Athanasios Pantelous, Konstantin Zuev
	Cointegration analysis and influence rank. A cointegration-based financial network approach to global stock markets
	Yanhua Chen
	Discussant: Kimmo Soramäki
IPS016	Measuring Progress, Sustainable Development and Wellbeing in a Post-2015
Room: 101	environment Organiser: Gemma Van Halderen
	Chair: Ronald Jensen
	Measuring Progress, Sustainable Development and Well-being in a Post-
	2015 environment
	Conal Smith
	Measuring Australia's progress in a Post-2015 environment
	Peter Harper
	Glenn Everett, Abigail Self
	Measuring Sustainable Development, Review and Reporting on Post-2015
	Agenda
	Lidia Bratanova
	Discussant: Roland Jansen
IPSO21	Statistical Literacy for Decision Makers
Room: 207	Organisers: Walter Radermacher, Reija Helenius
	Chair: Walter Radermacher
	Statistics in decision making the role of the Statistical Office, challenges
	and actions Marjo Bruun
	Statistics and Lampposts: For Support or For Illumination?
	Peter Van De Ven
	You learn to use statistics
	Reija Helenius
	Modernization of the Statistical Production by Multivariate Statistical Methodology
	Maurizio Vichi
	Statistical Literacy: A one size fits all approach? Perspectives from southern
	Africa
	Miranda Mafafo
	Discussant: David stern
IPSO43	Which is the right approach to learn statistics? Cues from different
Room: 202C	educational contexts
	Organiser: Caterina Primi
	Chair: Maria Virginia Lopez Italian University Students Achievement in Statistics: The Role of Attitudes
	and Approaches to Learning.
	Francesca Chiesi, Caterina Primi
	The relationship between learning approaches and students achievements
	in a first year statistics unit in Australia Ayse Bilgin
	The relationship between learning approaches and students' achievements
	in statistics units in Argentina
	María Fabrizio, Adriana Perez, María López, María Plencovich
	Preliminary results on the relationship between learning approaches and students achievements in a Social Statistics introductory course in Finland
	Kimmo Vehkalahti
	Discussant: Timothy Kyng

IPS048 Room: 210	New developments in use of model-based methods in official statistics Organiser and Chair: Paul Smith When Do Model-Based Methods Work? Roderick Little A new paradigm in Official Statistics? Stephen Horn, Raymond Czaplewski Model-based procedures for inference from big data sources Bart Buelens Discussant: Li-chun Zhang
IPS053 Room: 205	Estimation and inference methods based on integrated statistical data Organiser: Li-Chun Zhang Chair: Nikos Tzavidis Population Inference Using Linked Data Raymond Chambers Uncertainty in statistical matching for integration of samples drawn from finite populations Pier Luigi Conti, Daniela Marella, Mauro Scanu Integrating census and administrative data sources within a spatial sampling framework Roberto Benedetti, Danila Filipponi, Federica Piersimoni Discussant: Ton De Waal
IPS061 Room: 203C	Recent Advances in the Design and Analysis of Experiments Organiser: Frederick Kin Hing Phoa Chair: David Woods Designing Computer Experiments with Better OA-based Latin Hypercubes Boxin Tang, Yuanzhen He A Swarm Intelligence Based (SIB) Method for Optimization in Designs of Experiments Frederick Kin Hing Phoa E(s2)- and UE(s2)-Optimal Supersaturated Designs Ching-Shui Cheng, Pi-Wen Tsai
IPS067 Room: 202B	Robustness and outlier detection in advanced data structures Organiser and Chair: Mia Hubert High-dimensional regression and classification with sparse partial robust M estimation Peter Filzmoser, Christophe Croux, Irene Hoffmann, Sven Serneels Robust estimation of multivariate location and scatter in the presence of cellwise and casewise contamination Victor Yohai, Andy Leung, Claudio Agostinelli, Ruben Zamar Outlier Detection for Functional Data Using Principal Components Matias Salibian-Barrera, Graciela Boente Boente Robust modelling of complex time series Marco Riani, Domenico Perrotta, Mia Hubert, Peter Rousseeuw Classification of multivariate functional data based on depth Peter Rousseeuw
IPS070 Room: 203A	Confidence Distributions and BFF (Bayesian, Fiducial and Frequentist) Inferences Organisers: Thomas Lee, Min-ge Xie Chair: Nils Hjort Partially Informative Normal and Bayesian Partial Spline Models Dongchu Sun, Liu Sifan Fusion learning for network data and heterogeneous studies Regina Liu, Dungang Liu, Min-Ge Xie Higher order asymptotics for Generalized Fiducial Inference Jan Hannig Generalized Fiducial Inference for Massive Data Problems Randy Lai Discussant: Min-ge Xie

27 July 2015, Monday 10:30-12:30

IPSO79 Room: 201AB	Statistical Methods in Computerized Adaptive Testing Organiser and Chair: Ruben Klein Statistical issues in the item bank development for adaptive testing Maria Ferrão, Paula Prata Implementation and use of CAT in Brazil Dalton Andrade, Héliton Tavares Modelling items in computerized tests, now and in the future Marie Wiberg Quality Control and Test Security in Standardized Assessments with Multistage Test Designs Alina Von Davier Discussant: Mariana Curi
IPS091 Room: 201C	The use of surveys by central banks Organiser: Bruno Tissot Chair: Masahiro Higo Turkish Survey of Expectations: Methodological Changes, Sample Fixing and Use in Policy Timur Hulagu, Erdi Kizilkaya Macroeconomic implications of firm strategy for competitiveness: Insights from a survey of Canadian firms Lori Rennison, Farid Novin, Matthieu Verstraete Contrasting two Eurosystem surveys of households and firms: from micro to macro, from short term to long term, from the phone to your door Sebastien Perez-Duarte Revision in the Sample Design of TANKAN using the Economic Census of Japan Kyosuke Shiotani Discussant: Bruno Tissot
STS003 Room: 211	Response Error Methodology for Personal Interview Surveys Organiser: Öztas Ayhan Chair: Colm O'Muircheartaigh Introduction to Latent Class Analysis with Applications Paul Biemer Response Variance Estimation in Personal Interview Surveys with Several Interviewer Allocation Schemes Inci Batmaz, Fidan Mahmut-Fahmi Predicting response error in multiple survey items Barry Schouten, Frank Bais, Vera Toepoel Discussant: Öztas Ayhan

STS008 Room: 203B	Developing and Improving Sectoral Accounts Organiser: Bruno Tissot Chair: Gülbin Sahinbeyoglu Developments related to the methodological changeover in the financial accounts Béla Simon Who-to-whom information in the financial accounts of Germany - compilation, challenges and its use for monetary policy Manuel Rupprecht Improving sectorial accounts of non-financial societies using micro-data on credit Manuel Sanchezvaladez Integrating Balance of Payments and Sectoral Accounts in the Netherlands Erik Bieleveldt, Pim Claassen Sectoral Accounts for the Euro Area - Improving contents and communication Henning Ahnert, Gabriel Quirós Financial sector accounts and capital flows: The Chilean experience in their use for financial stability monitoring Pablo Garcia Silva, Josue Perez Toledo Implications of 2008 SNA recommendations for the measurement of households' income and savings Naoto Osawa, Masahiro Higo, Yoshiko Sato Discussant: João Cadete de Matos
STS009 Room: 208	Distribution Theory - still important, of course! Organiser and Chair: Carlos Coelho Practical considerations often motivate models Narayanaswamy Balakrishnan Log-location-scale-log-concave distributions for survival and reliability data Chris Jones The Prediction Error Distribution in ARCH Models Evdokia Xekalaki Stochastic Frontier Analysis with Fat-tailed Error Models Applied to WHO Health Data Arjun Gupta Testing elaborated block-structures in covariance matrices by splitting the null hypothesis - an overview Filipe Marques, Carlos Coelho
STS019 Room: 204B	The New Data Science: Statistical Analysis of Massive, High Dimensional Systems Organiser: Fionn Murtagh Chair: Andre Ponce de Leon F. de Carvalho Data Mining based approach for authors disambiguation in large citation networks Abdelkader Zighed, Adrian Tanasescu, Fabien Rico, Francisco Drumond Textual Data Analysis and Supervised Text Learning: Challenges and Achievements Mireille Summa Clustering Insider Threat Behaviour: An Ultrametric Anomaly Detection System Pedro Contreras, Fionn Murtagh, Keith Scott, Lee Hadlington Hierarchical and Multilabel Classification of Protein Functions Andre De Carvalho, Ricardo Cerri Analytics of Research Literature Quality through Content and Semantics of the Scholarly Literature Fionn Murtagh, Arlene Casey, Pedro Contreras, Samad Ahmadi Tuning of COSA for High-Dimensional Data Maarten Kampert, Jacqueline Meulman

STS030 Room: 204C	Galaxy and related star formation history: multivariate statistical investigation Organiser: Asis Chattopadhyay Chair: Joseph Hilbe Clustering with phylogenetic tools in astrophysics Didier Fraix-Burnet Mutivariate mixed linear-circular galaxy data Atanu Biswas Cosmic history of integrated galactic stellar initial mass function: a simulation study Tanuka Chattopadhyay Galaxy and related star formation history - Multivariate Statistical Investigation Asis Chattopadhyay Role of Measurement Errors in Astronomy Tathagata Bandyopadhyay
STS067 Room: 204A	Risk Analysis and Applications Organisers: Teresa Oliveira, Amilcar Oliveira Chair: M. Ivette Gomes A Partially Reduced-Bias Class of Value-at-Risk Estimators Maria Ivette Gomes, Dinis Pestana, Fernanda Figueiredo, Frederico Caeiro On risk assessment in cancer research, especially for nephroblastoma Milan Stehlik Improving the extremal index estimation through combination of an heuristic adaptive choice algorithm and resampling techniques Manuela Neves Monitoring risk using control charts based on the Birnbaum-Saunders distribution Victor Leiva, Carolina Marchant, Fabrizio Ruggeri, Helton Saulo Enterprise Risk Management Zeinab Amin Discussant: Christos Kitsos
OR-A01 Room: 209	Applications 1 The Concentration of Health Care Expenditures in the U.S. and Predictions of Future Spending Steven Cohen Generalized Bernoulli Model for Correlated Binary Responses with an Application to Child Nutrition Data in Bangladesh Mohammad Bhuyan, Mohammad Islam, Mohammad Rahman Rare disease and other assumptions in statistical analysis of genetic data: the good, the bad, and the ugly Shili Lin, Jingyuan Yang Relaxed cure rate models Josemar Rodrigues Is There a Housing Bubble or a Quality Boom in Turkey? Evidence from Hedonic Price Adjustment Timur Hulagu, Ali Ozbekler, Erdi Kizilkaya, Pinar Tunar Indirect estimation of a simultaneous limited dependent variable model for patient costs and outcome Gunnar Rosenqvist, Per Hjertstrand Vaccination Coverage in India: A Small Area Estimation Approach Santanu Pramanik, Nithiyananthan Muthusamy, Rajeev Gera, Ramanan Laxminarayan

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IPS004 Room: 202C	Neurostatistics Organiser and Chair: Pedro Valdes Sosa Tensor regression with applications in neuroimaging data analysis Hua Zhou Kernel Smoothing GEE for Longitudinal fMRI Studies Timothy Johnson, Min Zhang, Yu Chen Intraclass correlations for assessing reliability in presence of within- and between-subject variability in fMRI BOLD responses Michelle Liou, Alexander Zhigalov, Annabel Chen, Juin-Der Lee, Philip Cheng, Summit Suen Discussant: Martin Lindquist
IPS017 Room: 101	Statistical Approaches to the Study of Corruption Organisers: Mario Palma, Angela Me Chair: Mario Palma Alternative Measures of Governance: Using Inductive Methods B. Guy Peters The OECD Guidelines on measuring trust. Conal Smith Beyond perception: can we measure corruption? Adrián Franco Barrios Statistical Approaches to the Study of Corruption Gemma Van Halderen Discussant: Enrico Bisogno
IPS039 Room: 207	Brazilian Statistical Association (ABE): Contributions to Education and Dissemination of Statistics in Brazil Organiser: Francisco Louzada Chair: Lisbeth Cordani Statistics Corner - Reaching out families with simple statistics concepts Doris Fontes Disseminating the Statistical Education in Brazil through workshops for elementary and high school teachers Ângela Paes Projects of the Brazilian Statistical Association for an Upcoming Promising Future of the Statistical Science in Brazil Francisco Louzada
IPS054 Room: 205	Statistical implications of changing ILO international standards for employment and unemployment Organiser: Tite Habiyakare Chair: Rafael Diez de Medina From Employment and Unemployment to Work and Labour underutilization: The new international standards on statistics of work, employment and labour underutilization Elisa Benes Effect of the 19th ICLS Resolution on the Employment, Unemployment and Labour Underutilization Measures: case for Uganda Vincent Ssennono Impact of the new international standards on employment, unemployment and labour underutilization in the measurement of labour statistics: cases of Brunei Darussalam, Cambodia, Western Samoa, and Vietnam Tite Habiyakare The New Standards of Measuring Employment and Possible Effects on the Turkish Labour Market Indicators Tuna Kemali Discussant: Rafael Diez de Medina
IPS060 Room: 202A	Uncertainty Quantification of Computationally Expensive Models Organiser: Roshan Vengazhiyil Chair: Robert Gramacy Efficient calibration for imperfect computer models Jeff Wu Emulation of multivariate simulators using thin plate splines with application to atmospheric dispersion David C. Woods, Veronica E. Bowman Applying uncertainty quantification techniques to aid in parameter tuning in the Accelerated Climate Model for Energy Rick Archibald Discussant: Frederick Kin Hing Phoa

27 July 2015, Monday 14:00-15:40

IPS065 Room: 202B	Signature Structural Reliability Organiser: Vanderlei Bueno Chair: Francisco Samaniego Preservation of non-parametric distribution class under a system signature point process Vanderlei Bueno On the signature of repairable coherent systems Fabrizio Ruggeri, Alfonso Suarez-Llorens, Majid Chahkandi On the equivalence and stochastic dominance of systems of different sizes Bo H. Lindqvist, Francisco J. Samaniego Discussant: N. Balakrishnan
IPS069 Room: 201AB	Rankings by Statistical Agencies Based on Sample Survey Data Organiser: Tommy Wright Chair: Denise Silva Towards Expressing Statistical Uncertainty in Rankings Based on Sample Survey Data from Six National Statistical Agencies Tommy Wright Martin Klein Discussants: Ann-marie Flygare, Gemma Van Halderen, Noam Cohen
IPS074 Room: 210	Challenges and Opportunities for Spatial Analysis with Big Data Organiser and Chair: Renato Assunção On Gaussian Process Models for High-Dimensional Geostatistical Datasets Sudipto Banerjee, Abhirup Datta, Alan Gelfand, Andrew Finley Policy optimization for dynamic spatiotemporal systems Brian Reich, John Drake Exploring Multiple Evidences to Infer Users Location in Twitter Erica Rodrigues, Diogo Renno, Gisele L. Pappa, Renato Assunçao, Wagner Meira Jr. Discussant: Gilberto Camara
IPS081 Room: 201C	Statistics of Longitudinal Financial Data: Time Series and Continuous-Time Models Organiser and Chair: Per Mykland Principal Component Analysis of High Frequency Data Yacine Ait-Sahalia, Dacheng Xiu Yield Curves and Risk Neutral Densities - a Functional Time Series Approach Rong Chen Assessment of Uncertainty in High Frequency Data: The Observed Asymptotic Variance Lan Zhang, Per Mykland
STS001 Room: 203A	Statistical analysis of the large structured data with temporal component Organisers: Jian Zou, Michael Levine Chair: Jian Zou Dynamic Multiscale Spatiotemporal Models for Poisson Data: Spatiotemporal dependence structure Marco Ferreira, Thais Fonseca Nested Nonnegative Cone Analysis Method Lingsong Zhang Bayesian Spatio-Temporal Methodology for Biosurveillance Jian Zou Bayesian analysis for multi-subject time course RNA-seq experiments Allison Tegge, Marco A. R. Ferreira, Marco Ferreira, Shiqi Cui

STS012 Room: 203B	Quality management in National Statistical Offices Organiser and Chair: Jean-Michel Durr Improving the Production Process of the Irish Retail Sales Index (Satisfying Customers' Needs Using Lean Six Sigma Thinking) Steve Macfeely, Patrick Foley Quality Management System and Further Challenges - Innovative Approach in Re-designing of the Statistical Business Process Blagica Novkovska Improvements on the statistical quality practices at the Brazilian Institute of Geography and Statistics Zélia Bianchini, Maria Luiza Zacharias Improving the management of statistical processes via the use of Quality Gates Paul Schubert, Siu-Ming Tam Discussant: Andrea Diniz da Silva
STS020 Room: 204B	Disability measurement: the development of census questions and survey modules to measure disability in adults and children Organiser and Chair: Alicia Bercovich The UNICEF/WG module on inclusive education - measuring barriers and facilitators to education by children with and without disabilities Mitchell Loeb The work of the WG in the development of valid, cross-nationally comparable disability statistics: history and accomplishments Jennifer Madans Advances in the measurement of child functioning and disability Roberta Crialesi, Elena De Palma
STS024 Room: 203C	Advanced Statistical Process Control Organiser: Philippe Castagliola Chair: Sotiris Bersimis New control charts with memory for the monitoring of correlated counts with finite range Athanasios Rakitzis, Christian Weiss, Philippe Castagliola Distribution-Free Phase I Control Charts Based on Multivariate Spatial and Signed Ranks Giovanna Capizzi, Guido Masarotto New Statistics to Control the Process Mean Machado Marcela, Antonio Costa One-sided Control Charts for ZIB / ZIP Process with Estimated Parameters Philippe Castagliola, Athanasios Rakitzis
STS035 Room: 204C	Inference for Time Series Models with Stable Errors and Outliers Organiser and Chair: Bovas Abraham Estimation for Infinite Variance Circular Time Series Models via Estimating Function Aerambamoorthy Thavaneswaran Fast Approximate Likelihood Evaluation for Stable VARFIMA Processes Nalini Ravishanker, Jeffrey Pai Principal Component Analysis with Outliers and Time Series data Valderio Reisen
STS036 Room: 208	Preference learning and aggregation Organiser: Arnoldo Frigessi Chair: Alexandra Schmidt Bayesian Inference from Rank Data Valeria Vitelli, Arnoldo Frigessi, Elja Arjas, Magne Thoresen, Øystein Sørensen Ranking from Dyadic Encounters: Bradley-Terry Model, Extensions and Application David Firth A new probability distribution for ranking data and application to the clustering of multivariate ranking data Julien Jacques, Christophe Biernacki

STS039 Room: 204A	New advances in astrostatistical research Organiser and Chair: Joseph Hilbe Pattern detection and characterization for astronomical data through probabilistic modelling and statistical inference Radu Stoica How much do galaxies weigh: new Bayesian state space modelling of missing data Chakrabarty Dalia An introduction to exoplanet detection and statistical challenges Jogesh Babu
STS076 Room: 211	Innovation in Agricultural Statistics: What Works in Developing Countries? (Administrative Data, Data Collection Methods, and the Role of Technology) Organisers: Alberto Zezza, Naman Keita Chair: Anders Wallgren Area level model approach to small or large area estimation incorporating auxiliary information Jae-Kwang Kim, Zhengyuan Zhu, Zhonglei Wang Fantasyland: Comparing Subjective and Objective Measures of Farm Land Area in Household Surveys Calogero Carletto, Alberto Zezza, Siobhan Murray, Sydney Gourlay Methodology for Improving Administrative Data for Use in an Integrated Agricultural Statistics System Agnes Ssekiboobo Collecting the Dirt on Soils: Advancements in Plot-Level Soil Testing and Implications for Agricultural Statistics Calogero Carletto, Ermias Betemariam, Keith Shepherd, Sydney Gourlay
OR-B04 Room: 212	Methods and Theory 4 Robust Estimation of a Multilevel Model with Structural Change Erniel Barrios A bias-correction in Rotnitzky-Jewell criteria for improving the approach of correlation structure selection in generalized estimating equations Ajmery Jaman Ridge Regression for the Functional Concurrent Model Tito Manrique, André Mas, Christophe Crambes, Nadine Hilgert Quantile-based generalized logistic distribution Brenda Omachar, Paul Van Staden Generalized Method of Moments Estimator Based On Semiparametric Quantile Regression Imputation Cindy Yu, Senniang Chen Concentration function for skew-symmetric models with application to Bayesian robustness Marcia Branco, Fabrizio Ruggeri, Luciana Godoi
PP-C04 Room: 206	Statistical Computing 4 Statistical Analysis of Demand and Supply in a Distributed Problem Solving Platform of Software Development Ta-Hsin Li, Blain Dillard, David Hoffman, Yi-Min Chee A fast Mixed Model B-splines algorithm Martin P. Boer Crunching big data to produce statistics on large international events Erki Saluveer, Siim Esko An information-geometrical path algorithm for Poisson regression Yoshihiro Hirose Simultaneous analysis of multi-label classification and dimensionality reduction with clustering labels Hiroaki Ikuta, Hiroshi Yadohisa, Kensuke Tanioka A bootstrap application on the standard normal homogeneity test (snht) when there is not highly correlated reference series Ceyda Yazici, Ceylan Yozgatligil, Inci Batmaz

PP-F04 Official Statistics 4 Room: 206 From Employment and Unemployment to Work and Labour underutilization: The new international standards on statistics of work, employment and labour underutilization Elisa Munoz F. Benes 2 Census, 10 years of household surveys in Bolivia. Time to re-weight and define a comparable sample design for Welfare indicators Alvaro Chirino The Analysis of International Funds Flow Based on IFOFM Tao Wang, Baoyu Li Quantitative Methods for Measuring Impact of Self-Service Innovations Beatrice Gichohi Velocity of money Sana Souaid Jad, Darina Hachem On the dynamics of the primary housing market and the forecasting of house prices Joanna Waszczuk, Hanna Augustyniak, Jacek Laszek, Krzysztof Olszewski, Robert Leszczyski Towards a Political Economy of Statistics Erich Oltmanns, Klaus Heine Housing Price Prediction Using Search Engine Query Data Qian Dong, Nana Sun, Wei Li Realizing Official Statistics on Accidents at Work in Norway Arne Jensen Same-Sex Marriage in Brazil: First Results, Media Response and Visibility Eduardo Peret Measuring property prices: the BIS contribution Christian Dembiermont

The Housing price index for Chile: Methodology and Results

Census questionnaire design: a look at the disability topic

Andréa Paim, Rodrigo Lemes, Gustavo Silva

Application of response patterns to the evaluation of the 2010 Population

Ricardo Flores, Josué Pérez

IPS008 Room: 202B	Set and manifold estimation Organiser and Chair: <i>Ricardo Fraiman</i> On the use of cone-convexity in set estimation
	Antonio Cuevas Computational methods in set estimation Beatriz Pateiro-López, Antonio Cuevas, Pamela Llop Minimax rate for Dimension Estimator Jisu Kim, Alessandro Rinaldo, Larry Wasserman Discussant: Gabor Lugosi
IPS018 Room: 202A	Commercial Property Price Indices and their place in Official Statistics Organisers: Niall O'Hanlon, Chihiro Shimizu Chair: Carsten Boldsen Real Estate Prices: the international handbook on Commercial Property Price Indices David Fenwick Commercial Property Price Indexes and the System of National Accounts Shimizu Chihiro, Erwin Diewert, Kevin Fox Commercial property prices: price indices vs. performance indicators Jens Mehrhoff Commercial Property Price Indices and their place in Official Statistics Christian Dembiermont Discussant: Peter Van de Ven
IPS063 Room: 210	Design and Modeling of Computer Experiments Organiser: Peter Qian Chair: David Woods Statistical-Physical Estimation of Pollution Emission Youngdeok Hwang, Emre Barut, Kyongmin Yeo Local Gaussian process approximation for large computer experiments Robert Gramacy Connections Between Different Projections under the Linear-Quadratic Parametrization Arman Sabbaghi
IPS064 Room: 203A	Sparsity and leveraging in big data regression Organiser: Yichao Wu Chair: Dungang Liu Forward variable selection for sparse ultra-high dimensional varying coefficient models Ming-Yen Cheng, Jin-Ting Zhang, Toshio Honda Leveraging in big data regression Ping Ma
IPS083 Room: 207	Methodological innovations for more relevant and cost-effective agricultural censuses Organiser: Naman Keita Chair: Pietro Gennari Relevance and cost-effectiveness of agricultural censuses in the 21st Century Naman Keita Canada's Census of Agriculture: A history of innovation Jeffrey Smith Methodological, technical support to agricultural censuses Eva Laczka Discussant: Ben Kiregyera

IPS084 Room: 201AB	Measuring the interactions between agriculture and the environment Organiser and Chair: Robert Mayo Integrated environmental and economic accounting for agriculture: A framework for measuring the environmental impacts of agricultural policy in Guatemala Héctor Tuy, Jaime Carrera What are the interactions between agriculture and the environment? Let the data talk! Barbara Gemmill-Herren, Anne Bogdanski, Robert Mayo Building on the AEI to craft tools for monitoring complex interconnected environmental policies for agriculture Dale Andrew Discussant: Carl Obst
IPS127 Room: 202C	Modeling and exploratory analysis of functional data Organiser: Naveen Narisetty Chair: Bovas Abraham How to Use Functional Data Analysis Tools when Investigating the Feeding Behavior of Animals Jan Gertheiss Flexible regression models for functional data Ana-Maria Staicu A New Notion of Depth and Central Regions for Functional Data Naveen Naidu Narisetty, Vijayan Nair
IPS137 Room: 101	Panel Type Session Professional Ethics: A Discussion Organiser and Chair: Stephen Penneck Sibylle Von Oppeln-Bronikowski Jane Hutton Vijay Nair Stephen Penneck
IPS138 Room: 201C	The LISA 2020 Program to Build Statistical Capacity and Research Infrastructure in Developing Countries Organiser: Eric Vance Chair: Kaye Basford The LISA 2020 Program to Build Statistics Capacity and Research Infrastructure in Developing Countries Eric Vance Experience report about statistical collaboration in the Northeast of Brazil Carla Vivacqua, Daniele Rodrigues, Fábio Souza, Renato Tigre Martins da Costa, Rumenick Pereira da Silva Building Statistics Capacity in Nigeria Through the LISA 2020 Program Olushina Awe, Eric Vance, Ian Crandell LISA 2020:Impacting Agricultural Productivity in Tanzania through the Wheels of Statistics Emanuel Msemo, Eric Vance Discussant: Roger Hoerl
STS014 Room: 208	Statistical Data Analytics-Synergy between Academia and Business/Industry Organiser: Nalini Ravishanker Chair: Dipak Dey Challenges in Data-driven Predictive Modeling for Oil & Gas Exploration and Production Bianca Zadrozny, Marcos Vieira, Matthias Kormaksson How Do We Move to the Middle? Meeting the Expanding Expectations for Statisticians in Business and Government Robert Rodriguez Statistics in the Age of Big Data Challenges or Opportunities? Nandini Kannan, Jeffrey S. Pai

STS029 Room: 203B	Collecting High Frequency Panel Data in Africa Using Mobile Phone and Computer Assisted Personal Interviews Organiser and Chair: Felicien Donat E. T. Accrombessy Introducing Survey Solutions: a computer-assisted personal interview software Arthur Shaw Collecting High Frequency Panel Data in Africa Using Mobile Phone and Computer Assisted Personal Interviews Study Alvin Ndip Collecting high frequency data using a mobile phone panel survey Elvis Mushi, James Ciera & Youdi Schipper Combining innovative survey methodologies to produce high frequency data: The example of Surveys Solutions and mobile phone surveys in Togo Felicien Accrombessy Discussant: Andrew I. Dabalen
STS047 Room: 204B	New Methods in Modeling Count Data Organiser: Joseph Hilbe Chair: Jogesh Babu Using hurdle and zero-inflated models beyond the negative binomial for modeling count data with excessive zero counts Joseph Hilbe Exponentiated-exponential geometric regression model Felix Famoye, Carl Lee Count regression models that simultaneously model heaping propensity via scaled distributions James Hardin, Alexander Mclain, Gina Wingood, James Hussey, Kevin Bennett, Tammy Cummings
STS053 Room: 204C	The challenges and obstacles in improving statistical literacy Organisers: Reija Helenius, Pedro Campos, Steve MacFeely Chair: Iddo Gal Key success factors in improving statistical literacy: Experiences from the International Statistical Literacy Project Steve Macfeely Some experiences carried out by the Brazilian Institute of Geography and Statistics, IBGE, in promoting statistical literacy José Matias Lima Establishing a Diploma in Official Statistics: Overcoming the potential challenges and obstacles John Dunne Discussant: John A. Bailer
STS071 Room: 203C	Modernisation strategies to enhance Official Statistics Organisers: Falorsi Piero, Nadia Mignolli Chair: Giorgio Alleva A Business Architecture Model to support the Modernisation Project within the Italian National Institute of Statistics - Istat Piero Demetrio Falorsi, Alessandra Fasano, Giulio Barcaroli Modernisation strategies in the Australian Bureau of Statistics (ABS) Looking in, looking out Sebastian Dubrovsky Improvement of Business Architecture model at the HCSO - Experiences of the Hungarian Central Statistical Office Csaba Abry Modernisation of Official Statistics - an International Perspective Steven Vale Discussant: Nadia Mignolli

STS074 Room: 204A	Apps and e-learning Resources for training in Official Statistics Organiser and Chair: John Harraway
	Official Statistics Web Apps Sharleen Forbes, Dominic Martignetti, Greg Trounson, John Harraway, Kate Richardson Apps for Statistical Literacy in Africa
	David Stern Capacity building in Statistics through e-developments Bruno de Sousa
	Technology-based Learning Resources for Learner-Centred Training in a Learning Organization A Model for Sustainable Capacity Building for Official Statistics Margarita Guerrero Discussant: Tae Rim Lee
STS066 Room: 211	Modelling and design of complex processes Organiser and Chair: Milan Stehlik Star-shaped distributions: Euclidean and non-Euclidean representations Wolf-Dieter Richter Estimating the dimension of probability distributions Klaus Poetzelberger Factorial Designs and Taguchi Method: Application to the study of light- cured composite resins, using R Teresa Oliveira, Amílcar Oliveira, Elisa Henning Mixed Poisson Process with Pareto Mixing variable - Revisited Pavlina Jordanova Discussants: Udo R. Krieger, D. S. Hooda
OR-CO2 Room: 209	Statistical Computing 2 Internet Traffic Classification using a Markov Model and Kullback-Leibler Divergence Jinsoo Hwang Simultaneous Dimension Reduction and Prediction Optimization: Method and Application to High Dimensional Data Joseph Ryan Lansangan, Erniel Barrios Consistency of principal component scores in visualizations of high- dimensional data Kristoffer H. Hellton, Magne Thoresen Classification with imperfect supervisor: an iterative approach Luciano Nieddu, Donatella Vicari Meta-analysis and big data in the case of binary data Stephan Morgenthaler
OR-F02 Room: 212	Official Statistics 2 New Directions in Anonymization: Permutation Paradigm, Verifiability and Transparency Josep Domingo-Ferrer, Krishnamurty Muralidhar Identity disclosure risk control in microdata release via post-randomization Tapan Nayak Evidence Based Anonymization Nobuaki Hoshino Scoping study for a Brazilian Rolling Census: options to spread data collection over time Alvaro Frota, Andrea Diniz Improving Access to Official Statistical Data - Experiences of the Hungarian Central Statistical Office Zoltán Vereczkei, Eszter Nagy A New Method of Generating Synthetic Data for Public Use Files Pedro Campos

PP-B13

Room: 206

Methods and Theory 13

Multiple change points detection in linear regression by filtered derivative and false discovery rate method.

Mohamed Elmi

Estimation In Linear Mixed Model Using A Multivariate Approach

The Research on Extended Table and Prediction Model of Financial Flowof-Funds

Shuai Zhang, Baoyu Li

Research on Design and Application of SAM Multiplier Effect Link Models Kewei Ma, Baoyu Li

Improving the Power of Outlier Detection through Reasonably Choosing **Ratio Composition**

Bangwen Cheng, Hongjin Yang, Linfen Shi, Rong He, Yali Wang

A comparative review of generalizations of the extreme value distribution Eliane Pinheiro, Silvia Ferrari

C-statistic for evaluating the added predictive ability in the binary risk models: An alternative to the existing approaches

Afrin Rumana, Mohammad Rahman

Robust bootstrap forecast densities for GARCH models: returns, volatilities and Value-at-Risk.

Carlos Trucios, Esther Ruiz, Luiz K. Hotta

The Asymptotic Behavior of Likelihood Estimators for the Dispersion Parameter of the Negative Binomial Distribution

Neville Weber, Katherine Courtney

Improving bias in nonparametric density estimation: \$L_{1}\$ view Kairat Mynbaev, Carlos Martins Filho

Tail dependence convergence rate of a skew-t and of a skew normal distribution

Thomas Fung, Eugene Seneta

Weak Allee effects population growth models in a random environment Carlos A. Braumann, Clara Carlos

A note on lag selection in time series using multi-step estimation Lars Forsberg, Johan Lyhagen

Mixture of exponentiated Pareto model through Beta type generator Seitebaleng Makgai, Andriette Bekker, Johannes Ferreira, Mohammed Arashi Fitting a bivariate normal distribution to a two-way contingency table using maximum likelihood estimation

Assessing the use of copula structures in formulating joint Com-Poisson model

Yuvrai Sunecher

Robust Principal Components

Gretel Crafford, Nico Crowther

Eka Putri Irianti, Nuha Azizah Gunawan

Approximate Bayesian inference for the Rosenblatt distribution Laura Rifo, Plínio Andrade

The multivariate Gamma-GLG model from the random intercept Gamma model with random effect nonnormal

Lizandra Fabio, Francisco Cysneiros, Gilberto Paula

Closeness Comparisons among Lindley, Weibull and Gamma Distributions M. Z. Ragab

PO-AO6

Applications 6

Room: Poster

Triffin`s dilemma and the instability of the International Monetary System Roberto José Andrés Kalauz

Model-based peak alignment of metabolomic profiling from comprehensive two-dimensional gas chromatography mass spectrometry

Jaesik Jeong, Changyu Shen, Seongho Kim, Xiang Zhang, Xue Shi

Exposure to Secondhand Smoke at Home among Children in 21 Countries: Global Adult Tobacco Survey (GATS), 2008-2013

Mohan Krishna, Krishna Palipudi

Role of Foreign Trade and Foreign Direct Investment in the process of Open Economy in the Emirate of Abu Dhabi

Qais Aliunaibi. Sami Khasawneh

Nonparametric Item Response Theory and Cluster Analysis to study patterns of Information and Communication Technologies Adoption in Brazil companies

Emerson Santos, Renato Garcia

Comparative Studies in Brazilian Metropolitan Cities regarding the National Consumer's Prices Index: a Multivariate Statistical Analysis from 2012 to 2014

Bruna Freitas Costa, Isabella Rossi, Priscila Faria

Cluster analysis combined with AMMI model and bootstrap resampling: application in soybean with insect control

Priscila Faria, Carlos Tadeu Dias, Lúcio Araújo, Marcelo Cirillo

Selection of regression model for prediction of maximal daily pavement temperatures at Awbari in Libya

Zagorka Lozanov-Crvenkovi, Emilija Nikoli-ori, Hassan Awadat Salem, Bojan Mati

Comparison of Series Prediction for agricultural productivity using Hierarchical Bayesian Space-time and ARIMA models

Gislaine Duarte, Erasnilson Camilo, Maria Joseane Silva, Roseli Leandro, Vitor Ozaki

On the application of a new nonparametric estimator for the off-pulse interval of a light curve using a computer package

Willem Schutte, Jan Swanepoel

Impacts on life expectancy due to progressive reduction of deaths from homicides and traffic accidents in the urban areas of Brazil

Everlane Silva, Mardone França, Neir Paes

Age of smoking onset among South African youth: Results from the First South African National Health and Nutrition Examination Survey Khangelani Zuma

Latent class models for childhood obesity

Corrado Crocetta, Emma Zavarrone, Laura Antonucci, Maria Gabriella Grassia Effect of acarbose intake on postpandrial glycemia in a single rat - a nonlinear mixed effects model

Paulo Pereira, Isolde Previdelli, Omar Pereira

Polynomial curves of cardiac dysfunction in rats with aortic stenosis Maria Cecília Evangelista, Antonio Carlos Cicogna, Carlos Roberto Padovani, Renan Pinto

Mapping QTLs for Grain Yield in Maize: A Bayesian Approach Using Reversible Jump MCMC

Elisabeth Toledo, Anete Souza, Antônio Carneiro, Cláudio Souza Junior EU and non-EU researchers' International mobility: A random intercept proportional odds model

Matilde Bini, Alessandro Zeli, Leopoldo Nascia, Margherita Velucchi

Recreation, transportation or labor saving? Examining the association between household asset ownership and body mass index among Ghanaian women.

Fidelia Dake, Kamil Fuseini

Quantifying the impact of extreme events on commodity currencies Fernanda Fuentes

Can information about hospital mortality improve overall mortality figures? Antony Stevens Disabilities people: Investigation with use of the stereotype ordinal regression, variables and models selection for Brazil and São Paulo, Distrito Federal and Roraima states

Paulo Oliveira

Registered or Unregistered: Factors Associated with Registration and Certification of Births in Ghana

Fidelia Dake, Kamil Fuseini

Association of tobacco, alcohol and illicit drugs use by early adolescents in Argentina with home-level and school-level socio-economic status

Adriana Pérez, James Sargent, Lorena Peña, Paola Morello, Raúl Mejía, Sandra Braun

PO-B11 Room: Poster

Methods and Theory 11

Inference for the bivariate Birnbaum-Saunders distribution

Luis Benites Sánchez, Filidor Vilca Labra, Victor Leiva

Matching pseudocounts for interval estimation of binomial and Poisson parameters

Haruhiko Ogasawara

Proportional reversed hazards model for discrete data

Deemat Mathew

Geoestatistical Mixed Beta Regression: A Bayesian approach

Jorge Jorge Figueroa-Zúñiga, Bernardo Lagos-Alvarez, Roberto Toribio, Francisco Torres-Avilés

An objective Bayesian approach to tolerance intervals for the Poisson distribution

Lizanne Raubenheimer

Multivariate log generalized Birnbaum-Saunders regression models for metal forming processes

Carolina Marchant, Francisco Cysneiros, Victor Leiva

An application of a robust regression method based on Gaussian kernel function

Eufrasio Lima Neto, Adenice Ferreira, Eufrasio Lima Neto, Francisco De Carvalho, Marcelo Ferreira, Rodrigo Silva

Marginal probabilities and point estimation for conditionally specified logistic regression

Curtis Miller

Some convergence theorems for bivariate exponential dispersion models Gabriela Boggio, Lila Ricci, Raúl Martínez

A new framework for extending the Wishart distribution

Andriette Bekker, Janet Van Niekerk, Mohammad Arashi

Bayesian matrix variate elliptical model analysis

Janet Van Niekerk, Andriëtte Bekker, Daan De Waal, Mohammad Arashi

Properties of a class of residuals in the zero adjusted inverse Gaussian regression models

Juliana Rodrigues, Gustavo Pereira

Stacking Prediction for Multiclass Outcomes

Hicham Nocairi, Gilbert Saporta

Maximum Likelihood and Interval Arithmetic

Ronald Van Nooijen, Alla Kolechkina

Modelling the kurtosis of spatiotemporal processes

Renata Bueno, Alexandra Schmidt, Thaís da Fonseca

Can the Bartlett test really detect the heterogeneity of variances?

Crysttian Paixão, Katia Campos, Ramalho Moraes

Quasi-likelihood estimation of GARCH models with missing values Marcos Cascone, Luiz Hotta

The Full Bayesian Significance Test for marginal homogeneity in two-way contingency tables

Helton Carvalho, Luís Esteves

Multivariate log-Birnbaum-Saunders regression models

Germán Moreno-Arenas, Guillermo Martínez-Flórez, Rafael Farias

28 July 2015, Tuesday 09:00-10:10

IPS097 Room: 207	Bernoulli Journal Session - Aggregation of estimators and high-dimensional statistics Organiser and Chair: Enno Mammen Aggregation of estimators and high-dimensional statistics Alexandre Tsybakov Discussant: Andrew Barron
IPS103 Room: 201AB	IASC President's Invited Lecture: Is it a computing algorithm or a statistical procedure: Can you tell or do you care? Organiser and Chair: Maria Paula Brito Is it a computing algorithm or a statistical procedure: Can you tell or do you care? Xiao-Li Meng
IPS144 Room: 205	Statistics in Agriculture Organiser: Vijay Nair Chair: Fred Vogel Modernization of agriculture statistics in support of the sustainable development agenda Pietro Gennari Challenges and Opportunities in Producing Agricultural Statistics Michael Steiner
IPS146 Room: 101	Special Invited Lecture: Privacy, Confidentiality, and Big Data Organiser: Vijay Nair Chair: Jean-Louis Bodin Privacy, Confidentiality, and Big Data Stephen Fienberg
OR-C03 Room: 202A	Statistical Computing 3 Gibbs Sampling for Double Seasonal Moving Average Models Mohamed Ismail, Ayman Amin Bandwidth selection in kernel estimation of relative risk Ya-Mei Chang Deviance residuals based sparse PLS and sparse kernel PLS regression for censored data Philippe Bastien LIBIRT: an open source program for Item Response Theory Abdous Belkacem
OR-G07 Room: 203A	IASS Cochran-Hansen Prize Winners Organiser: Danny Pfeffermann Chair: Risto Lehtonen Improving Predictive Accuracy of Logistic Regression Model Using Ranked Set Samples Kevin Carl P. Santos Selection of Prior for the Variance Component and Approximations for Posterior Moments in the Fay-Herriot Model Santanu Pramanik

Countries Comparison Ksenija Dumicic

PP-A10 **Applications 10** Room: 206 An Investigation of Spatial Variation of Childhood Disease in India: A Bayesian Semi Parametric Approach Awdhesh Yaday Multivariate cointegration analysis of South African employment, inflation and output data for short- and long-run linkages Sagaren Pillay Spatial Autoregressive Interaction Modeling of Origin-Destination flows of farmers: Senegal case study Ligane Sene Impact of world demand shock an illustration using a macro model of Morocco Jamal Bakhti Reliability analysis of crude oil exploration in Niger delta, Nigeria Enobong Udoumoh, Anthony Ekpo, Samuel Augustine The Relationship Between Inflation And Growth: A Panel Smooth Transition Regression (PSTR) for WAEMU Countries Barnabas Djongbenou Estimation of Provincial Tobacco Use in Thailand Using Multilevel Small Area **Estimation from a National Probability Sample** Jason Hsia, Hataichanok Puckcharern, Xingyou Zhang Accuracy and precision of the Brazilian livestock data (Census x Estimation): Bovine, Poultry and Pork Paula Meyer, Paulo Henrique Rodrigues Text Mining Strategies applied on the annual reports of the International Monetary Fund. A look at the crisis Ana Feldman Interdependence of International Educational Flows and Countries Economic Development: Issues of Statistical Approach Maria Frolova Perception and Understanding: a Survey on Human Rights in Rio de Janeiro

Andrea Diniz Da Silva, Felipe Cavaliere Tavares, Jose Ferreira Cunha
Developing Forecasting Models for Unemployment Rate by Gender: Cross

IPS011 Room: 202B	Modern actuarial and statistical approaches to estimating insurance risks Organiser and Chair: Hiroki Masuda Statistical Inference for ruin-related quantities for Levy insurance risks Yasutaka Shimizu The development of Enterprise Risk Management in Japanese Insurance Industry Shuji Tanaka
IPS012 Room: 201AB	Recent developments in and applications of MCMC Organiser and Chair: Nancy Garcia Perfect simulation using atomic regeneration with application to Sequential Monte Carlo Krzysztof Latuszynski, Anthony Lee, Arnaud Doucet Some applications of asymmetric Metropolis-Hastings updates in the context of exact approximate algorithms Christophe Andrieu Algorithmic Design for Big Data: The ScaLE Algorithm Murray Pollock Discussant: Natesh Pillai
IPS034 Room: 201C	Recent Advances in Cluster Validation Organiser and Chair: Patrice Bertrand Flexible parametric bootstrap for testing homogeneity against clustering and assessing the number of clusters Christian Hennig Benchmarking cluster algorithms for ordinal survey data Friedrich Leisch, Dominik Ernst Assessment of a partition and its clusters according to a Rand index-based stability criterion Patrice Bertrand, Bel Mufti Ghazi, El Moubarki Lassad Incremental Clustering: The Case for Extra Clusters Margareta Ackerman, Sanjoy Dasgupta
IPS050 Room: 205	What is a Census, during times of changing methodologies and technologies? Organiser and Chair: Arona Pistiner Methodologies of Population and Housing Censuses: Revisited Keiko Osaki-Tomita What is a census: a register-based view Eric Schulte Nordholt Traditional Census - a misnomer and an oxymoron Duncan Young Discussant: Claude Julien
IPS075 Room: 202C	Bootstrap Methods for Time Series Organiser: Dimitris Politis Chair: Regina Liu Bootstrapping Multivariate Time Series Efstathiso Paparoditis Bootstrap estimation of the scale of geophysical process models Daniel Nordman, Kaiser Mark On fixed-b asymptotics for blockwise empirical likelihood and beyond Xiaofeng Shao, Xianyang Zhang Model-Free Bootstrap for Markov processes Dimitris Politis, Li Pan Covariance matrix estimation, linear prediction, and the Linear Process Bootstrap Timothy Mcmurry, Dimitris Politis

IPS086 Room: 210	Recent Advances In Estimation Methods For Agricultural Statistics Organiser and Chair: Michael Steiner Methodological developments for improving agricultural statistics for different typologies of countries Elisabetta Carfagna Recent Developments in Model-based Estimation Techniques in Agricultural Statistics Wendy Barboza Assessing the impact of the global food system: Integrating statistics across agriculture, the environment, and human health Mary Bohman Estimation Methods for macro Agricultural Statistics - Hungarian example Eva Laczka Discussant: Romeo Recide
IPS110 Room: 101	Panel Type Session The 2014 Report of the UN Intergovernmental Panel on Climate Change: Statistical Panel Discussion Organiser and Chair: Paul Switzer Claudia Tebaldi Peter Guttorp Michael Stein
IPS115 Room: 207	Advancing Women in Statistics: investigating and redressing the gender imbalance Organiser and Chair: Penelope Bidgood One glance in the history of the role of women in Statistics investigation Terisita Teran The evolution of women participation in research activities: A panorama in Mexico and Latin America Lilia Ramirez Ramirez, Tapen Sinha "Gender Issue" What Is That? Susmita Datta Advancing Women in Statistics: investigating and redressing the gender imbalance: the case of South Africa and of the rest of the African continent Jacky Galpin
IPS121 Room: 202A	High-dimensional data: Challenges and opportunities Organiser: Paulo Rodrigues Chair: Ejaz Ahmed Robust singular value decomposition with application to multi-location plant breeding trials Paulo Rodrigues, Andreia Monteiro, Vanda Lourenço Mixed Model B-splines for high dimensional phenotypic data in plant breeding Martin P. Boer On the Possibility of Using Multivariate Singular Spectrum Analysis for the Mortality Forecasting Rahim Mahmoudvand Discussant(s): Allen Genevera, David Banks
STS004 Room: 204C	Environmental Statistics: Recent Issues, Methods and Applications Organiser: Rahmatullah Imon Chair: Abdelhameed El-Shaarawi Analyzing Length or Size Biased Environmental Data Rahmatullah Imon Robustness Issues in Environmental Data Sohel Rana The analysis of PM10 suspended particulate air pollution using several robust techniques: case study in an industrial area, Penang Malaysia Habshah Midi Discussant: Ali Hadi

STS010 Room: 203A	Micro data for multipurpose data provision Organiser: Bruno Tissot Chair: Aurel Schubert Using Confidential Supervisory Data for Supervisory Monitoring, Internal Analysis and External Research Joseph Nichols European Reporting Framework - a possible solution to reporting challenges for banks Johannes Turner Uses and classification of financial information: A map for new requirements Alejandro Gaytan Securities Holdings Statistics Database (SHSDB): The new ESCB micro database on holdings of securities Markus Amann, David Buckmann, Isabel Lavrador, Maciej Anacki Discussants: Emmanuel Olowofeso, João Cadete de Matos
STS034 Room: 204B	Emerging Topics and Technologies in Official Statistics Organiser: Mohammed Ismail Chair: Abo Bakr Elgindy Data mining Applications in Official Statistics Mohamed El-Sharkawy The use of mobile phone data and geo-spatial information Ronald Jansen, Ivo Havinga, Kenneth Iversen Importance of Harmonized Household Income and Expenditure surveys: with an emphasis on CPI Hala Abou-Ali Recent developments in the preparatory arrangements for Egypt census 2016 Nehall Ahmed Farouk Egypt TS-Special topic session -ISI 2015 Emerging topics for European statistics in the Information Age Mariana Kotzeva
STS046 Room: 203B	Synthetic establishment microdata around the world Organiser: Lars Vilhuber Chair: Vishesh Karwa Noise Infusion as a Confidentiality Protection Measure for Graph-based Statistics John M. Abowd Using partially synthetic data to replace suppression in the Business Dynamics Statistics Lars Vilhuber, Javier Miranda Synthetic Longitudinal Business Databases for International Comparisons Joerg Drechsler, Lars Vilhuber Improving the Synthetic Longitudinal Database: Synthesizing Firms Satkartar Kinney Differentially Private Mechanisms for Publication of Establishment-Level Data Ian Schmutte Discussant: Stefan Bender
STS077 Room: 208	More than theory and methods: Preparing students for future work as professional statisticians Organisers: John Bailer, Helen MacGillivray Chair: Lisbeth Cordani Communication skills and research integrity for Master of Statistics students: blended learning experiences. Geert Molenberghs Practical experiences for modeling work as statistical collaborators and consultants John Bailer Authentically implementing and embedding the advocacy from statisticians and statistical educators Helen Macgillivray Changing the Statistics Doctorate to create broader careers Murray Cameron Discussant: Denise Silva

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STS081 Room: 203C	Spatial Aspects Of Well-Being: A Cross-National Comparative Perspective Organiser: Wlodzimierz Okrasa Chair: Graham Kalton A nationwide study on Subjective Well-being Scale for Chinese Citizens Xing Zhanjun, Liqing Huang Research of of Subjective Well-being in Ukraine Yulia Muzychenko, Oleksandr Osaulenko Price and quality of life Vasily M. Simchera, Individual and Community Well-Being in Transborder Areas: Spatial Patterns and Regional Accounts - an exercise from Poland and Ukraine Wlodzimierz Okrasa, Marek Cierpial-Wolan, Sebastian Wojcik Discussant: Graham Kalton
STS087 Room: 204A	Mainstreaming environmental accounting Organisers: Anton Steurer, Alessandra Alfieri Chair: Walter Radermacher The System of Environmental Economic Accounting (SEEA) - International guidance on environmental accounting Alfieri Alessandra European environmental economic accounts: statistical legislation and production in the European Union Anton Steurer Mainstreaming environmental accounting: Experience from the Philippines Lisa Bersales Testing SEEA Experimental Ecosystem Accounting in South Africa Amanda Driver Environmental Economic Accounting for Water In Brazil: Preliminary Statistics and Challenges for the future José Antonio Nascimento Discussant: Carl Obst
OR-B03 Room: 209	Methods and Theory 3 A flexible Zero-Augmented Generalized Gamma Mixed Effects Regression Calibration model to Correct for Measurement Error in Episodically Consumed Food George Agogo Knot deletion for robust penalized spline regression Steffen Liebscher, Thomas Kirschstein A generalized finite mixture model Jang Schiltz Box-Cox symmetric distributions and applications to nutritional data Silvia Ferrari, Giovana Fumes Behavior of binned kernel density estimators for non-stationary random fields Joseph Ngatchou-Wandji, Jean-François Lenain, Joseph Ngatchou-Wandji, Michel Harel On Modelling Count Data from a Discrete Decreasing Distribution Chew Chee A flexible approach to high-dimensional conditional density estimation Rafael Izbicki, Ann Lee

OR-E01 Room: 212	Business and Industry 1 Supersaturated Split-Plot Designs Kalliopi Mylona, David Woods Economic efficiency of the AOQL sampling plans for inspection by variables when the remainder of rejected lots is inspected Nikola Kasprikova, Jindrich Klufa Design of clustered sequential multiple assignment randomized trial (cSMART) Palash Ghosh, Bibhas Chakraborty Bayesian bootstrap inference for the ROC surface Vanda Inácio De Carvalho, Miguel De Carvalho Two new defective distributions based on the Marshall-Olkin extension Ricardo Rocha, Francisco Louzada, Saralees Nadarajah, Vera Tomazella Optimal Designs for a Logistic Dose-Response Model with Restricted Dose Levels Karabi Nandy, Rajesh Nandy Statistical Quality Control with Functional Data. An application to Energy Efficiency Salvador Naya, Javier Tarrío Saavedra, Manuel Oviedo, Miguel Flores Sánchez, Sonia Zaragoza
OR-GO2 Room: 211	Survey Statistics 2 Documenting the statistical editing process, a case study of the Luxembourg Financial Accounts Ingber Roymans Bayesian Sample Size Calculation in Two Arms Randomized Clinical Trials Yufan Zhao, Gongfu Zhou, Kevin Hou Univariate versus multivariate modeling of panel data, specification issues and goodness of fit testing Albert Satorra Optimum Stratification Using Multiple Auxiliary Variables with 3P Weibull Distributions Karuna Reddy Distribution Free Methods for Longitudinal Survey Data Models Marcel Vieira, Leandro Andraos Efficient Small Area Estimation When Covariates Are Measured With Error Using Simulation Extrapolation Trijya Singh, Raymond Carroll, Suojin Wang An Optimization Approach Applied to Optimal Allocation in Stratified Sampling Augusto Fadel, Gustavo Semaan, José Brito, Pedro Silva

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IPS005 Room: 201C	Recent Advances in Functional Data Analysis Organiser and Chair: Jeng-Min Chiou Supervised Sparse and Functional Principal Component Analysis Haipeng Shen, Gen Li, Jianhua Z. Huang Supervised classification of functional data in the presence of covariates Pai-Ling Li, Jeng-Min Chiou, Yu Shyr Average derivative projection pursuit regression Frederic Ferraty
IPS006 Room: 101	Recent advances in statistical learning and high-dimensional data modeling Organiser: Ji Zhu Chair: Wei Sun Inhomogeneous large-scale data: Maximin effects and aggregation with Magging Peter Buhlmann High-Dimensional Low-Rank Matrix Recovery Tony Cai, Anru Zhang Mixture modeling of longitudinal data Annie Qu, Xiwei Tang
IPS010 Room: 202B	Statistics for large scale spatial data Organiser and Chair: Soumendra Lahiri Spatio-Temporal Data Fusion for Big Data and its Application to Satellite Remote Sensing Noel Cressie Spatio-temporal point process models on a global scale Mikyoung Jun Computational Challenges with Big Environmental Data Marc Genton
IPS027 Room: 202C	How to improve statistics production of NSO and NSS? Answers from the public management perspective Organiser and Chair: Federico Segui Increase the NSOs productivity to produce and coordinate more and better statistics for Poverty Reduction Strategies and National Development Plans Alejandro Medina Giopp Introducing a National Code of Practice for Official Statistics: Experiences from Ireland Steve Macfeely, Ann Hickey Statistical National System, public programs management and statistical production based on administrative registers. Yucatán study case Julio Ortegon Discussant: Zelia Bianchini
IPS033 Room: 210	New developments in Symbolic Data Analysis Organiser: Edwin Diday Chair: Paula Brito Inferential aspects in regression models for interval-valued variables Eufrásio Lima Neto Visualizing Aggregated Symbolic Data with Continuous and Categorical Variables Junji Nakano, Nobuo Shimizu, Yoshikazu Yamamoto Some mathematical problems in symbolic data analysis Richard Emilion Discussant: Rosanna Verde

IPS062 Room: 201AB	The Role of Statistics in Modern Reliability Organisers: William Meeker, Yili Hong Chair: Yili Hong Statistical Methods for Estimating the Minimum Thickness Along a Pipeline William Meeker ARA and ARI imperfect repair models: a proposed method for model selection Marta Afonso Freitas, Enrico Colosimo, Gustavo Gilardoni, Maria Luiza de Toledo Combined inference of laboratory and field data with application to warrantry prediction Sheng-Tsaing Tseng, Nan-Jung Hsu Discussant: Yili Hong
IPS090 Room: 207	Improving government debt statistics Organiser: Bruno Tissot Chair: Seung Park General Government debt: a quick way to improve comparability Christian Dembiermont Conceptual issues related to the definition of government debt João Matos, Ana Almeida, Branco Sérgio General Government Gross Debt in Brazil: Methodological Issues Regarding Government Securities Held by the Central Bank Joanilson de Carvalho Santos, Joanilson Santos Discussant: Jacques Fournier
IPS117 Room: 205	Advanced random effects modelling of environmental and natural resources data Organiser and Chair: Renjun Ma Joint models with outliers and censoring Lang Wu Assessing the effects of exposure during pregnancy on multiple outcomes Ronghui Xu Analysis of serially correlated compositional sedimentary data Guohua Yan, Renjun Ma Discussant: Quanxi Shao
IPS124 Room: 202A	New Developments in High Dimensional Testing Organiser: Ali Shojaie Chair: Mladen Kolar Bayesian Large-scale Multiple Testing for Dependent Data Xia Wang, Ali Shojaie, Jian (Frank) Zou Simultaneously estimating many effect sizes, frequentist selection bias, and the bootstrap Noah Simon Large-Scale Multiple Testing with Multi-Dimensional Test Statistics Kasra Alishahi, Ahmad Ehyaei Discussant: Tony Cai
IPS151 Room: 203A	• Panel Type Session • Memorial Session: Celebrating the lives and legacies of Vic Barnett, Kathryn Chaloner, and David Sprott Organisers: Ananda Sen, Vijay Nair Chair: Ananda Sen Peter Guttorp John Kalbfleisch Dipak Dey

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STS006 Room: 203B	Master sampling frame for agricultural surveys: Improving methods for linking area and list frames Organiser and Chair: Cristiano Ferraz Multiple Frames Surveys: a promising tool for agricultural statistics Fulvia Mecatti, Cristiano Ferraz Brazilian Master Frame for Agricultural Statistics Flavio Bolliger, Andrea Diniz da Silva Combining list frames with different kinds of area frame Elisabetta Carfagna Frames and Populations in a Register-based National Statistical System Anders Wallgren, Britt Wallgren
STS013 Room: 203C	Disability: Challenges for Measurement and International Comparability Organiser and Chair: Alicia Bercovich Development of an Internationally Comparable Disability Measure for Censuses: Challenges and Opportunities Jennifer Madans Rising or Declining? Trends of Disability and Functional Limitation under Different Measurements in Chinese Older Adults Qiushi Feng, Danan Gu, Yi Zeng A Study of Disability in Asian Countries, with emphasis on Vietnam and Bangladesh Daniel Mont The Proposal of the WG tested in three Latin American countries and its application in the 2010 Census Round. Zulma Sosa
STS021 Room: 204A	Risk and Extremes: Analysis, Dependence Modeling, and Prediction Organiser and Chair: Miguel de Carvalho Modelling the clustering of extreme river flows for hydrological risk assessment Thomas Lugrin, Anthony Davison, Jonathan Tawn Temporal dependence in extremes with dynamic models Dani Gamerman Extremes of Skew-Symmetric Distributions Simone Padoan, Boris Beranger, Scott Sisson Predictor-dependent bivariate extremes: modelling and estimation Miguel de Carvalho, Castro Daniela, Jenny Wadsworth
STS043 Room: 208	Applications of mixed models to small area estimation Organiser: Bonnéry Daniel Chair: Partha Lahiri Estimation of poverty in small areas under skewed distributions Isabel Molina, Juan Marin, Monique Graf Applications of Mixed Models Methodology for Small Area Estimation in Mexico Nikos Tzavidis Triple-goal estimation of unemployment rates for U.S. states using the U.S. Current Population Survey data Partha Lahiri, Daniel Bonnery, Neung Ha, Yang Cheng
STS060 Room: 204B	Graphical models and Bayesian networks through applications Organiser and Chair: Jean-Michel Poggi Causal Business Analytics: Uplift models and directed acyclic graphs Dominique Haughton, Jonathan Haughton, Victor Lo Detecting Influential Observations for a Graphical Model Avner Bar-Hen, Jean-Michel Poggi Graphical Methods For Detecting Dependence Using Copulas Julieth Escudero, Carlos Mario Gómez, Mario Cesar Elorza

STS068 Room: 204C	The roles of administrative data in official statistics Organiser: Michael Slyuzberg Chair: Eric Nordholt The use of administrative data for statistical business registers and trade statistics Ronald Jansen, Nancy Snyder Emerging applications of tax administrative data in South Africa Elizabeth Gavin, Kholofelo Makua, Mamiky Leolo, Michelle Smit, Nozuko Twala, Randall Carolissen Tax Data in Official Statistics: Opportunities and Challenges Michael Slyuzberg
STS091 Room: 211	ISI Jan Tinbergen Award Winners Organiser and Chair: Nalini Ravishanker A Bias-Corrected Approach to Rotnitzky-Jewell Criteria for Appropriate Correlation Structure Selection in Generalized Estimating Equations Ajmery Jaman Zero-Modified Models for Count Data Katiane S. Conceição Testing in Additive and Projection Pursuit Models Arun Kuchibhotla
OR-C01 Room: 209	Statistical Computing 1 Neural Network Approach to Estimating Conditional Quantile Polynomial Distributed lag (QPDL) model with an application to Rubber Price returns Kwadwo Nyantakyi Recursive bootstrap L1-type regularized regression modeling based on parametric statistical test Heewon Park, Satoru Miyano, Seiya Imoto Linear programming for detecting separation in polytomous logistic regression Inácio Andruski-Guimaráes An Assessment of CCP Approach in Statistical Learning Artür Manukyan, Elvan Ceyhan On the choice of initial seed values for the Lloyd's k-means algorithm Kalev Pärna Biplots for Sparse Partial Least Squares Opeoluwa Oyedele
PP-E03 Room: 206	Business and Industry 3 Forecasting hourly Electricity demand in Egypt Eman Abd El-Metaal, Alyaa Zahran, Mohamed Ismail Influence Analysis in Response Surface Methodology Yufen Huang, Chao-Yen Hsieh AARL-unbiased exponential chart using Bayesian approach for monitoring times between events Nirpeksh Kumar System Reliability Modelling under Preventive Maintenance and Priority Suresh Malik Short run control charts for process variability Luan Jaupi, Dariush Ghorbanzadeh, Philippe Durand Monitoring the covariance matrix of a multivariate process using the dissimilarity index Longcheen Huwang Designs for factors with many levels Ridout Martin, Philip Brown Risk-adjusted CUSUM chart to monitor lifetimes in presence of long-term survivors Jocelânio Oliveira, Dione Valença, Magaly Marçula, Pledson Medeiros

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PP-H03 Room: 206	Environmetrics 3 Modelling competition between nuclear power and renewable energy technologies: some results and forecasts for Germany Mariangela Guidolin, Renato Guseo Extracting Air Quality Indicator Trends Using Time Series Butterworth Filters Giuliana Passamani, Paola Masotti Strengthening the Application of Statistical Monitoring in City Management - Solving the Capital's Development Problem on Population, Resources and Environment Jia Cui
	Jia Cui Using a Multivariate Diffusion Model to Perform Inference in Ecology Etienne Pienaar

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IPS019 Room: 202C	Addressing methodological questions on large crime population and business surveys
ROOM. 202C	Organiser: Angela Me
	Chair: Eduardo Sojo Past achievements and future challenges: surveying victims of crime in the UK context Roma Chappell, John Flatley
	Methodological Challenges Facing the National Crime Victimization Survey Lynn Langton, Bonnie Shook-Sa, Marcus Berzofsky New investments in quality and new perspectives in the Italian Violence Against Women Survey and Victimization survey
	Linda Laura Sabbadini Challenges in victimization surveys. Raising the value of official statistics Adrián Franco, Oscar Jaimes Discussant: Angela Me
IPS024 Room: 201AB	Urbanisation and Societal Challenges: How are statistics measuring up? Organisers: Derek Bond, Asta Manninen Chair: Jagdev Virdee Enhancing Smart Growth by Open Data and Statistics - experiences from
	Helsinki Ari Jaakola Openness, Usability, and Effectiveness: Bringing data to bear on local issues Wendy Thomas
	Statistics in Process of New-type Urbanization in China Li Song, Chen Xiaolong, Zhao Maohong Discussant: Stephen Leung
IPSO41 Room: 201C	Open Data, Civil Society and Monitoring Social Progress: Challenges for Statistics Education Organiser: Joachim Engel Chair: Jim Ridgway Open data at the interface of mathematics and civics education: Challenges of the data revolution for the statistics curriculum
	Joachim Engel What statistical skills do citizens in civil societies need? Monitoring the energy transition Philipp Ullmann Do citizens have the skills needed to understand the statistical information we produce? Findings from international surveys and their implications Iddo Gal Discussant: Irena Krizman
IPS066 Room: 202A	Advances in Statistical Process Control Organiser and Chair: Daniel Jeske New SPC Methods for Monitoring Infectious Diseases Peihua Qiu A Wavelet-Based Nonparametric CUSUM Control Chart for Autocorrelated Processes with Applications to Network Surviellance
	Daniel Jeske, Jun Li, Xin Zhang Stochastic Models of Multivariate Statistical Process Control for Non- Industrial Processes Sotiris Bersimis
IPS072 Room: 202B	Estimation and Forecasting with Intra Day High Frequency Data Organiser and Chair: Lan Zhang Between Data Cleaning and Inference: Pre-Averaging and Robust Estimators of the Efficient Price Per Mykland, Lan Zhang Realized Volatility of Large Portfolios Dacheng Xiu, Alex Furger, Dacheng Xiu, Jianqing Fan Efficient estimation for stochastic differential equations with high frequency
	data Michael Sorensen

IPS073 Room: 210	Role of Subjective Probability in Quantum and Particle Physics Organiser: Nozer Singpurwalla Chair: Yulia Gel Quantum Theory and The Role of Probability and Statistics in its Development Ali Eskandarian The Search for Unspecified Structure in Astrophysical Images: Maintaining Computational Efficiency and Statistical Validity David Dyk, Aneta Siemiginowska, Nathan Stein, Vinay Kashyap, Xiao Li Meng Does Quantum Mechanics Require a New Concept of Probability? Nozer Singpurwalla Discussant: Joshua Landon
IPS089 Room: 207	Central Bank Sources and Uses of Derivative Statistics Organiser: Bruno Tissot Chair: Charles Thomas Recent improvements in the BIS data on OTC derivative and foreign exchange transactions Bruno Tissot The challenges of standardization and aggregation of EMIR data in Europe: Six trade repositories and 28 countries Linda Fache Rousova, Grzegorz Skrzypczynski, Malgorzata Osiewicz Derivatives data at the Banco de Mexico: Its structure and uses Alejandro Gaytan, Alejandra Mejía, Roberto Toledo Systemic Risk Monitoring and Prudential Supervision Erik Heitfield Discussant: Ágnes Tardos
IPS095 Room: 203A	Exploring Capture-Recapture Models Developed for Diverse Applications Organiser: Linda Young Chair: Carol Crawford Capture-Recapture Methods for Estimating the Number of US Farms Linda Young, Andrea Lamas, Christopher Taylor, Denise Abreu Estimating the prevalence of injecting drug use in Scotland using capturerecapture and partially observed contingency tables Antony Overstall Capture-recapture applied to human populations Owen Abbott Discussant: Lynne Billard
IPS126 Room: 205	Statistical Methods for Network Analysis Organiser: Ali Shojaie Chair: Carvalho Luis Inference in High-Dimensional Varying Coefficient Models Mladen Kolar, Damian Kozbur Fast Hierarchical Modeling for Recommender Networks Patrick Perry High-dimensional two-sample testing for exploration of biological network heterogeneity Stadler Nicolas, Frank Dondelinger, Sach Mukherjee
IPS142 Room: 101	State of the ISI Family I: Views from the Presidents of ISI, BS, IASC, and ISBIS Organiser and Chair: Vijay Nair The ISI Family: Accomplishments, Opportunities, and Challenges Vijay Nair Bernoulli Society: recruiting and engaging Wilfrid Kendall IASC: Statistical Computing for Data Science Paula Brito The Influence of ISBIS in the Evolving Environment of Business and Industry David Banks, Vincenzo Vinzi

STS025 Room: 204A	Recent advances in the likelihood methodology for complex models Organiser: Peter Song Chair: David Firth Approximate Likelihoods Nancy Reid Composite estimating functions and applications to imaging data Peter Song, Jian Kang Tapered composite likelihood for spatial max-stable models Sang Huiyan Inference for generalized linear mixed models with sparse structure Helen Ogden
STSO28 Room: 204B	Modelling complex survey data and related administrative or unit record data Organiser: Stephen Haslett Chair: John Eltinge Composite indicators of poverty in the small area case Monica Pratesi, Achille Lemmi, Stefano Marchetti Accounting for the Quality of Auxiliary Data Used in Small Area Estimation John Eltinge A Unit-level Quantile Nested Error Regression Model for Domain Prediction with Continuous and Discrete Outcomes Nikos Tzavidis, Beate Weidenhammer, Timo Schmid, Nicola Salvati Fine level estimates and future scenarios: What are the links and differences between small area estimation and spatial microsimulation? Stephen Haslett
STS040 Room: 204C	New developments in the measurement and utilization of food consumption data from household consumption and expenditure surveys Organiser and Chair: Calogero Carletto Is shorter better? Juxtaposing recall periods for food consumption in Household Consumption and Expenditure Surveys in Bangladesh and India John Fiedler, Reina Engle-Stone, Celeste Sununtnasuk Impact of household budget surveys' design on the measurement of food consumption Piero Conforti
STS054 Room: 203B	Extreme Values and Heavy Tailed Phenomena 1 Organiser and Chair: Ugur Alparslan Time-changed extremal process as a random sup measure Gennady Samorodnitsky, Céline Lacaux Robust PCA and ICA for heavy tailed distributions John Nolan, Richard Davis, Sidney Resnick, Ugur Alparslan Inverse problems for regular variation Jan Rosinski, Ewa Damek, Gennady Samorodnitsky, Thomas Mikosch
STS072 Room: 203C	Smart Cities: from theoretical background to operational measurement experiences Organisers: Nadia Mignolli, Roberta Pace Chair: Roberta Pace Measuring multidimensional topics: the case of the Italian Smart Cities Roberta de Santis, Alessandra Fasano, Anna Villa, Nadia Mignolli Smart cities and official statistics-some ideas Barteld Braaksma, Kees Zeelenberg Measuring the Smartness of Cities - points to be considered Faiz Alsuhail Discussant: Nadia Mignolli
STS085 Room: 208	Mediation Analysis: Innovative Practice and Methodology Development Organiser: Lei Liu Chair: Lucia Barroso Identification and Estimation of Causal Mediation Effects with Treatment Noncompliance Teppi Yamamoto Mediation analysis in epigenetic studies Lei Liu Mediation Analysis for Time-to-event Outcomes in Observational Studies Joseph Hogan

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OR-B14 Room: 209	Methods and Theory 14 Incremental calculation for multivariate statistics of compositional data Yuan Wei, Huiwen Wang Multilevel modeling of tabular counts via Deconstructed Maximum Likelihood Jarod (Yan Liang) Lee Transmuted generalized Gompertz distribution for modelling reliability data Robert King, Irene Hudson, Muhammad Khan Parametric or nonparametric: the FIC approach for stationary time series Gudmund Horn Hermansen, Martin Jullum, Nils Lid Hjort Resampling techniques for cyclostationary time series. Long memory, weak dependence and heavy tails perspective. Jacek Leskow, Elzbieta Gajecka
OR-F03 Room: 211	Official Statistics 3 Reform of the German System of Household Statistics Thomas Riede Measuring well-being in Portugal: weights and resilience Paulo Gomes Standardisation in the European Statistical System - the Process of ESS Standardisation Csaba Abry, Anne-Claire Laurent-Zuani, Jan L. Thomas, Peter Struijs, Zoltán Vereczkei Modern Technologies in Omani Censuses Khalifa Albarwani Current Development In The Compilation Of Malaysia S Statistics Of International Trade In Services Kanageswary Ramasamy, Abdul Hasan, Mohd Masud, Siti Ahmad Relationships network for viability of National Statistical Systems Motivations for a future study Marcia QuintsIr
PP-F05 Room: 206	Official Statistics 5 Comparative Analysis on Industrial Classification of China and International Standard Industrial Classification Zhuo Wang Design and Implementation of Online Retail Statistics in China Xiaoyan Liu Feasibility Study on Business Register Updating in China Based on Internet Data Sources Ran Tao, Hengjun Huang, Ran Tao Environmental Patents in Brazil: Proposed methodology for identification and compatibility with different databases Francisco Marta, Denise Silva, Paulo Gonzaga Carvalho New challenges to Promote Use of Statistics in Japan - Toward the Creation of Higher Value by Utilizing Official Statistics - Ryo Iyama, Kotaro Nakamura Classification and Empirical Study of Producer Service Industry in Beijing Xiaoqian Zou Research on Improving the CPI Statistical Survey System in the Information Age Qian Wang The Study of Statistical Calculation and Fulfillment Methods for 'Upgraded' Demographic Dividend in Beijing Wenbin Ding Study on Statistical Methods and Application of Data of Consumer Confidence Index Illustrated by Beijing Consumer Confidence Index Reform Zhiyu Wang Socioeconomic Context of the housing units that used the internet as a mean of response to the 2010 Brazilian Population Census Andréa Paim

PO-A07

Room: Poster

Applications 7

Analysis of Dynamic Pupil with Generalized Linear Mixed Models Marcela D'urso Villar, Ana Sfer, Bárbara Silva, Elisa Colombo

A Statistical Research on China Eldercare Service: Take Haining City as Example

Yongmao Dong

How the Peoples in Rural Areas in The Middle of Amazonia's Heart Live Wellington Pereira

Analysis on macro economic factors affecting working hour and consumption in Korean economy

Heekvung Son

Nutrition mapping in Morocco

Abdeljaouad Ezzrari, Sanaa El Messouadi

A Spatial Analysis of South African Secondary School's Performance Arulsivanathan Naidoo

The marital status of South Africans,a spatial analysis

Gaongalelwe Phakedi

Intergenerational social mobility in Morocco

Abdelkader Teto

Improvement In The Estimation Of Agriculture Value Added -Theoretical Model

Gabriel Simbila

A measure of effectiveness of treatments based on Bayesian logistic regression models: an application to Agriculture

Danilo Alvares, Anabel Forte, Carmen Armero, Luis Galipienso, Luis Rubio

Goodness of fit and precision of the Graded Response Model estimates of a psychometric scale at varying number of categories

Yuliana Mora Cedeño

Cure Fraction Using Mixture Models On The Modified Weibull Distribution With An Application To Gastric Cancer Data

Marcos Peres, Edson Martinez, Isolde Previdelli

Canonical correlation for characterize relation between sensory panel and electronic nose, using different bovine muscles Olga Filippini, Gabriela Grigioni, Hugo Delfino

Statistical Issues in the Analysis of Data from RNA-Seq Experiments David Rocke, Blythe Durbin-Johnson, Luvao Ruan, Sharon Aviran

Modeling longevity risk - the central European case

Grazvna Trzpiot, Justvna Maiewska

Modeling the resilience in elderly workers

Rafaela Pereira, Isolde Previdelli, Rosangela Santana, Thais Nóbrega

Commitment of Brazilian municipalities with the Millennium Development Goals by a model of the Item Response Theory

Mira Carvalho Nascimento, Héliton Ribeiro Tavares, Maria Madruga Tavares Factorial Analysis for Forced Migration in Colombia

Carlos Mantilla Duarte

Bayesian Estimation for Mixture of Simplex Distribution with Unknown Number of Components: Human Development Index Analysis in Brazil

Rosineide Paz, Jorge Bazan, Luis Milan

Longitudinal Data Impact Analysis of the Brazilian Bolsa Famalia Social Welfare Programme

Tamires Coelho, Aline Castro, Carolina Ribeiro, Cinara Santos, Marcel Vieira, Ricardo Freguglia, Walmir Miranda

Brazilian Admission Exam for the Diplomatic Career: an Application of the **Principal Components Analysis**

Cauan Cardoso

Using Negative Binomial Regression Model to minimize over dispersion an application on woman labor force data

Reem Elsybaev

Visualization of spatial and paneled data for reason-specified suicide data by prefecture in Japan

Takafumi Kubota

28 July 2015, Tuesday 09:00-17:40

PO-C05 Room: Poster	Statistical Computing 5 Item Response Theory in WinBUGS using BayesianModeling software Francisco Torres-Avilés, Jorge Bazán Confidence interval of log odds ratio for the posterior probabilities under
	heteroscedastic multivariate normal groups for large dimension Takayuki Yamada Bayesian Estimation of Bipartite Matchings for Record Linkage
	Mauricio Sadinle Forecasting time series with SSA.Boot procedure Paula Macaira, Fernando Luiz Cyrino Oliveira
	Estimating dependent Binomial mixture models through reversible jump MCMC Daiane Zuanetti. Luis Milan
	Robust Principal Components with Fast and Robust Bootstrap: An application to populated areas in Santa Fe Fernanda Mendez, Gonzalo Mari, Javier Bussi
	GEA-R: suite of R programs for Genotype × Environment Analyses Mateo Vargas Hernandez, Rosa Pacheco Gil Some random projection based hypothesis tests.
	Leonardo Moreno, Ricardo Fraiman, Sebastian Vallejo Fuzzy Clustering Time Series based on structural components Ledys Salazar Gomez, Rodrigo Salas
	Retrieval Ordering of Documents Using the Entropy Distribution by IPF Algorithm Jung Jin Lee, Hyun Jo You
PO-D03 Room: Poster	Statistical Education 3 Students And Their Attitudes Towards The Learning Of Mathematics: A Case Study Of Owerri Municipal Local Government Area Chinonso Obichili
	The use of Moodle and R environments as support for a probability and statistics course: an experience in a teacher training program Elisa Henning, Luciane Santos
	Item selection criteria for Logistic Positive Exponent model-based Computerized Adaptive Testing
	Thales Ricarte, Mariana Cúri An experience of the statistical learning in elementary school Claudia Regina Lima, Rafael Cavalcante

IPSO98 Room: 201AB	Bernoulli Society President`s Invited Lecture: Tales of an Applied Statistician in a Functional World Organiser and Chair: Wilfrid Kendall Tales of an Applied Statistician in a Functional World John Aston
IPS107 Room: 207	IASC - CSDA Journal Invited Paper Session Organiser: Erricos Kontoghiorghes Chair: Jae Lee Sparse PCA for high-dimensional data with outliers Mia Hubert, Eric Schmitt, Tim Verdonck, Tom Reynkens Clustering longitudinal profiles using P-splines and mixed effects models applied to time-course gene expression data John Hinde, Emma Holian, Norma Bargary Obtaining Phenotypic Data in Oncology via Natural Language Processing and Data Mining of Text Topics Joyce Niland, Courtney Vito, Rebecca Ottesen Discussant: John Hinde
IPS147 Room: 101	Special Invited Lecture: Internet Surveys - Challenges and Opportunities Organiser: Vijay Nair Chair: Natalie Shlomo Internet Surveys: Challenges and Opportunities Mick Couper
IPS148 Room: 205	Special Invited Lecture: Past Development and New Directions in Physical and Computer Experiments - From Fisher to Taguchi and Beyond Organiser: Vijay Nair Chair: William Meeker Past Developments and New Directions in Physical and Computer Experiments: From Fisher to Taguchi and Beyond Jeff Wu
OR-A11 Room: 210	Applications 11 Detecting Nonlinear Granger Causality via the kernelization of Partial Directed Coherence Lucas Massaroppe, Luiz Baccalá Analysis of Brazil's presidential election via Bayesian spatial quantile regression Bruno Santos, Heleno Bolfarine Marital Dissolution in South Africa: Analysis of Census 2011 Data. Leonard Ahuejere Efficiency Analysis of Electricity Distribution by South African Municipalities: A Cost Frontier Approach Aviwe Gqwaka
OR-G06 Room: 202A	Survey Statistics 6 Using the whole cohort in the analysis of countermatched samples Claudia Rivera, Thomas Lumley Variance Estimation in Multi-phase Calibration Noam Cohen, Dan Ben-Hur, Luisa Burck Small area population estimation: Estimating population size at ward level in 2014 in South Africa Eric Udjo Cartographic and population of census tracts use to design a hantavirus serum survey. Roberto Dusi, Mariana Nicacio, Pedro Tauil, Raynner Parente

IPS023 Room: 207	Towards the modernisation of statistical processes Organiser: Roberto Barcellan Chair: Mariana Kotzeva At the cusp of change - strategies, progress and challenges in modernising a National Statistical Office Duncan Young, Trevor Sutton, Jenine Borowik, Michael Meagher Adding Value to Statistics in the Data Revolution Age Giorgio Alleva Modernisation at Statistics Netherlands Bert Kroese Discussant: Walter Radermacher
IPS025 Room: 202A	Governance and innovation / Quality assurance systems for statistics: From development to implementation and monitoring Organisers: Jean-Pierre Poncelet, Kim Sinho Chair: Walter Radermacher Prioritising the User Perspective on Statistical Quality William Richard Alldritt The role of peer reviews as an important instrument in the context of monitoring and enhancing quality of official statistics Helena Cordeiro Strengthening Quality Assurance for National Statistical Systems Monica Pinzon Torres Quality Management System of Korean Official Statistcis Hyungee Kim Reinforced quality assurance of Government Finance Statistics Eduardo Barredo Capelot, Zsuzsanna Kovacs Discussant: Thomas Burg
IPS036 Room: 205	Fusion Learning: Combining Inferences from Diverse Sources Organiser and Chair: Regina Liu On combining likelihoods or p-value functions or other inference summaries coming from various sources Don Fraser Confidence inference for combination of different information sources Nils Hjort Multi-source Inference: Surprises and Challenges Xiao-Li Meng Fusion Learning by Combining Nonparametric Inferences using Confidence Distributions Min-Ge Xie, Dungang Liu, Regina Liu Discussant: Nancy Reid
IPS038 Room: 201C	Recent advances on functional data modelling and applications to life time data Organiser: Ana Aguilera Chair: Ronaldo Dias Marginal screening for high-dimensional and functional predictors lan Mckeague Clustering Random Curves Under Spatial Interdependence with Application to Service Accessibility Nicoleta Serban, Huijing Jiang Analyzing human mortality dynamics by marginal FPCA Pedro Delicado, Hans Muller, Kehui Chen Discussant: Ana Aguilera
IPS044 Room: 201AB	Big Data Inferences and Modelling for Official Statistics, with Application to Satellite Imagery Analysis Organiser: Siu-Ming Tam Chair: Ray Chambers Big Data Inferences and Modelling for Official Statistics with Application to Satellite Imagery Analysis Paul Schubert, Siu-Ming Tam Use of Big Data in official statistics Giulio Barcaroli REVEAL: A Paradigm for Official Statistics Ronald Prevost, Thomas Louis Discussant: Walter Radermacher

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IPS094 Room: 202B	Novel statistical methods for longitudinal data in biomedical studies Organiser: Debdeep Pati Chair: Ananda Sen
	A Location-Mixture Autoregressive Model for online forecasting of lung tumor motion Debdeep Pati, Daniel Cervone, John Henry Lewis, Natesh Pillai, Ross Berbeco A flexible modelling framework for overdispersed, Hierarchical data of a joint nature. Geert Molenberghs Bayesian Analysis of Partial Linear Model for Skewed Longitudinal Data Debajyoti Sinha, Debdeep Pati, Lipsitz Stuart, Yuan-Yuan Tang Generalized Multilevel Function-on-Scalar Regression and Principal Component Analysis Jeff Goldsmith, Jennifer Schrack, Vadim Zipunnikov
IPS119 Room: 210	Spatial sampling: incorporating auxiliary information and multiple objectives Organiser and Chair: Sarah Nusser MCMC selection of spatially and doubly balanced samples Roberto Benedetti, Federica Piersimoni, Paolo Postiglione, Simona Andreano Optimize Spatial Sampling Design through the use of Point Processes Zhengyuan Zhu, Chun-Yip Yau, Ji-Meng Loh Efficient Prediction Designs for Random Fields Werner Mueller, Helmut Waldl, Joao Rendas, Luc Pronzato
IPS140 Room: 101	The Data Revolution for Sustainable Development: Opportunities and Challenges Panel type session Organiser and Chair: Enrico Giovannini Jacqueline Mc Glade Robert Kirkpatrick Nicolas Decordes Emmanuel Letouzé Discussant: Wasmália Bivar
STS005 Room: 204B	Climate change impacts on society and economy Organiser: Vyacheslav Lyubchich Chair: Lilia Leticia Ramirez Ramirez Low cost GPS-wavelet-based methodologies to advertise climate and environmental extreme events Eniuce Menezes, Luiz Sapucci, Tamiris Negri, Vinicius Felix Modelling and predicting residential water damage insurance claims in a climate change perspective Ola Haug, Arnoldo Frigessi, Ida Scheel, Peter Guttorp Climate Change, Rain Fed Maize Productivity and Rural Malnutrition in Mexico Marcelo Villarroel, Alejandro de la Fuente A new approach to climate proof insurance industry Vyacheslav Lyubchich, Sylvia Esterby, Yulia Gel Measuring climate change in the UK Glenn Everett Discussant: Carlos F. Gaitan
STS015 Room: 203C	Ranked set sampling: as a cost-effective and more efficient data collection method Arun Sinha Sustainable City Foundation - Key for Sustainable, Inclusive and Prosperous Cities - Tool for the development and use of statistics for the new urban agenda Gora Mboup Fast growth of migrants caused urbanization of Islamabad and created many problems for the community Noor Larik

STS027 Room: 202B	A New Statistical Framework for Measuring Global Flow of Funds Organiser: Nan Zhang Chair: Dong Qiu Foundations of International Flow-of-Funds Accounts Kazusuke Tsujimura, Masako Tsujimura Mapping the structure of the global flow-of-funds analysis Yali Dong, Yafei Wang Is the short-term international capital flows a leading indicator? Evidence from China Gang Shi, Zee Lian The Linkage between China's Financial System and the Real Economy: Based on "From-whomto-whom" Flow of Funds Account Jingping Li, Minxue Gao, Qiang Liu Measuring Global Flow of Funds: Conceptual Framework, Data Sources and Approaches Nan Zhang
	Discussant: Xiuzhen Zhao
STS049 Room: 203A	Inter-American Statistical Institute (IASI) Session - The paperless population census: solution for the future? Organiser: Evelio O. Fabbroni Chair: Alicia Bercovich Using portable electronic devices in the 2011 Census in Uruguay Laura Nalbarte Statistics and Human Rights: The experience of the Statistics Office of Cabo Verde Antonio Duarte The Paperless Census: a viable option for the CARICOM countries? Philomen Harrison Modern Technologies in Omani Censuses Khalifa Abdullah Al Barwani The Paperless Census: the experience of Brazil Americo Vicente Miranda Júnior, Luciano Duarte, Miriam Silva Barbuda, Wolney Menezes The Challengers of 2014 Census of Angola Camilo Ceita
STS064 Room: 203B	Employment and unemployment estimations: where do we stand? Organiser: Mariagnese Branchi Chair: Marjo Bruun China's Labour Force Surveys: Challenges and Future Developments Nallin Feng Challenges in Measuring and Disseminating Employment and Unemployment Estimates: The U.S. Experience Anne Polivka Challenges in compiling employment and unemployment estimates the Australian experience Van Halderen Gemma Enhanced statistics of employment and unemployment with model questionnaires Hervé Rennie Labor market in Brazil: indicators, methodologies and recent developments Lilian Arquete, Leandro Pires Discussant: Mariagnese Branchi

STS069 Room: 204A	Statistical spatio-temporal models for environmental risks Organiser: Alessandro Fasso Chair: Armand Maul Statistical surveillance of Earthquakes based on volunteer sensor networks Alessandro Fasso, Francesco Finazzi Spatial and spatio-temporal models for analysing land use raster data Daniela Cocchi, Marian Scott, Massimo Ventrucci Joint Modelling and data analysis of Wildfire Hazards Giovani Silva, Charmaine Dean, Steve Taylor Spatio-temporal issues in environmental risk assessment and modeling Lelys Guenni, Andrés Sajo-Castelli, Desireé Villalta On generating a flexible class of anisotropic spatial models using Gaussian predictive processes Sujit Sahu, Sabyasachi Mukhopadhyay
OR-A02 Room: 204C	Applications 2 The Impact of Export Diversification on Economic Growth: A Comparative Study Embareka Abouellial The Argentinean North Central Railway, a State funded line: Some results about its economic performance for the period from 1889 to 1920. Maria Abril, Maria Beatriz Blanco Impact of the Mining and Quarrying Activity on other Economic Activities in the Emirate of Abu Dhabi Akram Alshawawreh, Hibah Alrawi Modeling Strategies for Prediction of Hedge Fund Failure: A Comparison of Parametric and Semi-Parametric Approaches Jose Faias, Leila Amorim Generalized linear mixed models: an application to fungi data Christopher Pádua, Celeste Dalessandro, Clarice Demétrio, Maira Fatoretto, Rafael Moral, Victor Rojas, Vinicius Menarin Vocational Training, occupational requirements and labor earnings in Brazil Marina Aguas, Mauricio Reis Quantile regression modelling of some Brazilian anthropometric data Luna Hidalgo, Pedro Silva
OR-B07 Room: 208	Methods and Theory 7 A normal mixture inverse gamma approach to sparse factor analysis Sara Fontanella, Nickolay Trendafilov, Pasquale Valentini Layered 2D ray-averaging approximation Wilfrid Kendall, Audrey Kueh Another look at estimating parameters in systems of ordinary differential equations via regularization Ivan Vujacic, Ernst Wit, Seyed Mahmoudi Assessing the impact of variable scaling on projection methods in the analysis of spectral data. Jean-Pierre Labuschagne, Renè Pellissier Quadratic forms on complex elliptical random variables and its applications Johann Ferreira, Andriette Bekker, Mohammad Arashi Belief propagation for inference in linear-Gaussian models with applications in hydrology Gerrit Schoups Bayesian ordination of species sampling data from microbiome studies Sergio Bacallado

29 July 2015, Wednesday 10:30-12:30

OR-F08 Room: 202C	Official Statistics 8 Some thoughts on Undercount Problem Bikas Sinha Alternative Approaches To Knowledge Discovery in Official Statistics Thanyani Maremba What is wrong with official fishery statistics? Evidence from tuna catch data from the Gulf of Guinea Sitsofe Tsagbey, Garritt Page, Miguel de Carvalho The use of indicators to meet users need: The performance indicators in transport sector Bouazza Bouchkhar Age reporting in South African datasets: A Study of the quality of age reporting in selected South African Household-based Surveys, from 2000 - 2014 Liesbeth Roberts Statistical coherence of educational attainment in population censuses: IPUMS - International integrated samples compared for 15 African countries Lara Cleveland, Kristen Jeffers, Patricia Kelly Hall, Robert Mccaa Improving of the Reliability of Ukrainian Poverty Indicators Estimation Using Auxiliary Information
OR-G03 Room: 211	Survey Statistics 3 Nonparametric Convex Imputation and Its Application Philip Cheng, Jian-Hui Ning, Michelle Liou Multiple Imputation using Regularised Iterative Multiple Correspondence Analysis Johané Nienkemper-Swanepoel, Michael Von Maltitz Effect of Nonresponse Sources and Call Backs on the Estimation of Survey Nonresponse Bias Öztas Ayhan Empirical likelihood confidence intervals in the presence of unit non- response Yves Berger Are trajectories of dataset representativeness during survey data collection generalizable? Evidence from the 2011 Census Non-Response Link Study. Jamie Moore, Gabriele Durrant, Peter Smith Assessing Interviewer Effects on Nonresponse Bias Denize Barbosa, Chris Skinner, Gabriele Durrant, Peter Smith

IPS002	Advances in Variable Selection and Rank Reduction in High Dimensions
Room: 202A	Organiser: Yiyuan She Chair: Regina Liu
	Sparse Canonical Correlation Analysis Harrison Zhou, Chao Gao, Zhao Ren, Zongming Ma
	Canonical Variate Regression Kun Chen, Chongliang Luo, Dipak Dey, Jin Liu
	Robust Inherent Spectral Clustering Yivuan She
	Inference for hierarchical clustering of variables Max G'sell
IPS014 Room: 201C	Statistics of stochastic networks Organiser: Ernst Wit Chair: Ivan Vujacic
	Inferring latent random networks from random interactions Ernst Wit
	Exponential-family Approaches to Jointly Model Network Relations and Endogenous Attributes Mark Handcock, Ian Fellows
IPS026 Room: 101	How can National Statistics Offices (NSOs) take advantage of new data sources and collection modes? Organiser: Nancy Gordon
	Chair: Nancy McBeth Use of mobile devices and other advances in data collection
	Tuulikki Sillajoe, Jaanus Kroon Meeting users - needs for indicators on the knowledge-based economy (KBE), while reducing collections on the agro-industrial economy
	Ramasamy Ramachandran Digital Government - Digital Statistics. How statisticians are putting
	themselves at the heart of government transformation through Data Science, Big Data and being 'Â~helpful'
	Glenn Everett, Bill Oates Using new data sources to modernise Official Statistics - a Collaborative Approach
	Jenine Borowik Big Data and Semantic Technology: A Future for Data Integration,
	Exploration and Visualisation Andreas Mayer, Andrew Harwood Discussant: Vince Galvin
IPS032 Room: 205	Multi-block data analysis for big data Organiser: Alba Martinez-Ruiz
1.001111 200	Chair: Renato Assunção On the Ontological and Epistemological Conceptualization of Second and
	Higher Order Constructs: Distinctions Between Variance and Covariance approaches applied to Data Complexity
	Wynne W. Chin Big data in multi-block data analysis: An approach to paralleling classic PLS algorithm Alba Martinez Duiz Criptica Martafala Solos
IPS046	Alba Martinez Ruiz, Cristina Montañola-Sales Adaptive Survey Design
Room: 203C	Organiser and Chair: Barry Schouten Using R-indicators for Adaptive Follow-up in Longitudinal Studies
	Natalie Shlomo, lan Plewis Design, data collection and estimation
	Peter Lundquist, Carl-Erik Särndal Adapting survey design based on respondent profiles and questionnaire
	profiles Joop Hox, Frank Bais, Jan Van Den Brakel, Peter Lugtig, Vera Toepoel
	Discussant: Frauke Kreuter

29 July 2015, Wednesday 14:00-15:40

IPS049 Room: 210	Small area estimation for business and economic data Organiser: Susana Rubin Bleuer Chair: Denise Silva Bayesian small area estimation methods for business survey statistics Maria Ferrante, Carlo Trivisano, Enrico Fabrizi Local Estimates of Average Household Income in Argentina Mamadou Diallo, Augusto Hoszowski, Claudio Comari Small Area Models for Brazilian Business Survey Skewed Data Fernando Moura, André Neves, Denise Silva Discussant: Ralf Münnich
IPS077 Room: 202C	Innovations in Analyzing Failure Data from Complex Systems Organiser: Ananda Sen Chair: Sanjib Basu Multivariate Frailty Models for the Multi-type Recurrent Event Data using Monte Carlo EM Algorithm Yili Hong Statistical Inference of a Parametric Recurrent Event Model Under Competing Risks Anupap Somboonsavatdee, Ananda Sen Bayesian analysis of ARA imperfect maintenance models with corrective and planned preventive maintenance Olivier Gaudoin, Franck Corset, Laurent Doyen
IPS085 Room: 207	Measurement issues for Food Insecurity, Poverty and Malnutrition: state of research and methods Organiser: Carlo Cafiero Chair: Marcia Quintslr Going Global: Estimating Comparable Prevalence Rates of Food Insecurity Experienced by Adults in 150 Countries Carlo Cafiero, Anne Kepple, Mark Nord, Mauro Delgrossi, Meghan Miller, Terri Ballard Measuring Poverty through Malnutrition Indicators Alexander Surinov How important is food consumed away from home? Evidence from India John Fiedler Implications of the nutrition transition for monitoring national food and nutrition security Maria Laura Louzada, Ana Paula Martins, Carlos Augusto Monteiro Discussant: Paulo de Martino Jannuzzi
IPS100 Room: 203A	Stochastic Processes and Applications Journal paper: Statistics for High Frequency Data Organisers: Jean Jacod, Mathieu Rosenbaum Chair: Jean Jacod Optimally Thresholded Realized Power Variations for Stochastic Volatility Models with Jumps José Figueroa-López What makes a neuron spike - The Stochastic Hodgkin-Huxley process, periodic Harris recurrence and first steps towards statistical analysis Eva Loecherbach, Michele Thieullen, Reinhard Hoepfner Limit theorems for Levy moving average processes Mark Podolskij, Andreas Basse-O'connor, Raphael Lachieze-Rey

IP5132 Room: 202B	Measuring Economies using the ICP data: Regional perspectives Organiser: Oliver Chinganya Chair: Charles Lufumpa Asian Comparison: SNA-ICP consistency Eileen Capilit, Yuri Dikhanov Comparative analysis of costs of some selected infrastructure components across Africa: Results from the 2011 International Comparison Program for Africa (ICP-Africa) Abdoulaye Adam, Oliver Chinganya Income and price elasticity of demand for broad consumption items in African countries using the 2011 ICP-Africa results
	Marc Kouakou, Charles Lufumpa, Désiré Kanga The economic complexity of African countries and opportunity costs of exporting unprocessed products using the ICP data Nadege Yameongo, Marc Kouakou, Tiguene Nabassaga Evolution of major African economies in light of ICP comparisons from 2005 to 2011 Yuri Dikhanov, Oliver Chinganya Discussant: Michel Mouyelo-katoula
IPS139 Room: 201AB	G-O-O-A-L - How does statistics contribute to making decisions and predicting success in sports? Organisers: John Bailer, Pedro Silva Chair: John Bailer Bayesian Approaches to Predicting Football Match Outcomes: Who will be the Champion? Francisco Louzada Going downhill fast: The development of a rating system for Alpine downhill skiing and other multi-competitor sports Mark Glickman, Jonathan Hennessy
STS026 Room: 203B	Design, Development and Implementation of Statistical Business Registers in Developing Countries Organisers: Michael Colledge, Besa Muwele Chair: Oliver Chinganya Statistical Business Registers: Underlying Concepts and Methods Michael Colledge Statistical Business Register: Inputs, Processes and Outputs Magrietha Gouws Statistical Business Register (SBR): Design, Development and Implementation Abdool Mungralee Development & implementation of a generic Statistical Business Register (SBR) system Vikash Madhow
STS031 Room: 204C	Latent Variable Analysis of Complex Survey Data: Approaches to Handling Item Missingness Organiser and Chair: Paul Biemer Latent Class Analysis with Missing Data under Complex Sampling: Results of a Simulation Study Marcus Berzofsky The Impact of Attemping to Reduce Item Nonresponse Chris Skinner Log-linear Analysis with Missing Data using Full Information Maximum Likelihood (FIML) Biemer Paul Discussant: Ken Bollen

STS041 Room: 211	New ways to measure global value chains Organiser and Chair: Axel Behrens New ways to measure upgrading in Global Value Chains Ronald Jansen, Habibur Khan, Ivo Havinga The puzzle of measuring Global Value Chains the business statistics perspective Peter Bøegh Nielsen, Martin Luppes International Trade in Value Added: Some suggestions for improved and new indicators Steve Macfeely
STS042 Room: 209	Non-standard Inference in Time Series Analysis Organiser and Chair: Wilfredo Palma Study of Locally Stationary Estimators Ricardo Olea Estimation of the autocorrelation function of long-memory processes Mauricio Zevallos Tests for non-cointegration based on the frequency domain Glaura Franco, Igor Souza, Valderio Reisen
STS048 Room: 204A	Inter-American Statistical Institute (IASI) Session - Safeguarding the integrity of statistics and independence of statisticians Organiser and Chair: Juan Carlos Abril Statistics as instruments for prosperous, transparent and democratic societies Carlo Malaguerra How May the Fundamental Principles of Official Statistics Safeguard Integrity and Interdependence? Jean-Louis Bodin Use and abuse of Official Statistics in Latin America Victor Beker The Fundamental Principles of Official Statistics: Not just Governments getting inter alia the public and media involved Iwan Sno
STS056 Room: 204B	Big Data Analytics - experiences and perspective on education and talent training Organiser: Wei Yuan Chair: Iddo Gal The Role of Data Science in the Statistics Curricula Deborah Nolan Big data analytics education via a new cross-university collaborative program in China Wei Yuan Rebuilding the foundations: statistical training in the 21st century Matthew Parry Teaching big data analytics by NOT teaching it Ding Yuan
STS063 Room: 208	High frequency processing and streaming data analysis Organiser and Chair: Rosanna Verde A new strategy for monitoring spatially dependent data streams Antonio Balzanella, Rosanna Verde Data Stream Clustering Elaine Faria, André Carvalho, Eduardo Hruschka, Jonathan Andrade, João Gama, Rodrigo Barros Novelty detection in data streams Andre de Carvalho, Elaine Faria, Isabel Gonçalves, João Gama Recent advances in functional data stream classification Fabrizio Maturo, Francesca Fortuna, Tonio di Battista

Seng Huat Ong, Shin Zhu Sim Dimensionality Reduction for Large Portfolios Svetlana Borovkova A Review of Dispersion Models Generated by Tilting Bent Jargensen A law of large numbers for the 2-dimensional Brownian semistatio process with stochastic correlation Andrea Granelli, Almut Veraart Choosing the weights for the logarithmic pooling of probability distributions Luiz Max Carvalho, Daniel Villela, Flavio Coelho, Leonardo Bastos Expected Shortfall of Quadratic Portfolios in Non-normal Distribut Juan Arismendi Zambrano, Herbert Kimura, Simon Broda PP-A04 Room: 206 PP-A04 Room: 206 Applications 4 Predictors of educational attainment in Namibian women Lillian Pazvakawambwa Measuring Violence against Women in Egyptian Society Haidy Mahmoud Academia, Salary or Family, Talent Mobility in and across China Feng Zhen Calibration of a Brazilian health literacy measurement instrument Fernando Colugnati, Luanda Santos, Marcus Bastos Joint Regression and Association Modelling of Under-nutrition Ou among Children Leonard Atuhaire Heteroskedastic Generalized Linear Models to explore income inel Latin American countries Gilbert Brenes-Camacho A HLM Study on the Influence of Macro Factors to the Resident In Satisfaction Yu Jin Access to basic services in South Africa: Spatial analysis Mmanate Kekana The Relationship Between Divorce and Socio-Economic Factors: A nalysis Cleopatra Sikhosana A spatial analysis of poverty in South Africa Prevalence and Determinants of HIV infection in South Africa: Res the 2008 National HIV survey Khangelani Zuma Analysis of KCSE performance in Nakuru county: a generalized est equations approach Elvis Muchene, Leacky Muchene Spatiotemporal analysis of infant mortality rates in Argentina usin Poisson models Cristina Cuesta, María Dolores Ugarte Missing Value Effect on the Estimation of Item Response Theory P A Simulation Study by Increasing the Item Difficulty Level Alejandra Arias Salazar	
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Arulsivanathan Naidoo	Predictors of educational attainment in Namibian women Lillian Pazvakawambwa Measuring Violence against Women in Egyptian Society Haidy Mahmoud Academia, Salary or Family, Talent Mobility in and across China Feng Zhen Calibration of a Brazilian health literacy measurement instrument - TALES Fernando Colugnati, Luanda Santos, Marcus Bastos Joint Regression and Association Modelling of Under-nutrition Outcomes among Children Leonard Atuhaire Heteroskedastic Generalized Linear Models to explore income inequality in Latin American countries Gilbert Brenes-Camacho A HLM Study on the Influence of Macro Factors to the Resident Income Satisfaction Yu Jin Access to basic services in South Africa: Spatial analysis Mmanate Kekana The Relationship Between Divorce and Socio-Economic Factors: A Spatial Analysis Cleopatra Sikhosana A spatial analysis of poverty in South Africa Ntokozo Molata Prevalence and Determinants of HIV infection in South Africa: Results from the 2008 National HIV survey Khangelani Zuma Analysis of KCSE performance in Nakuru county: a generalized estimating equations approach Elvis Muchene, Leacky Muchene Spatiotemporal analysis of infant mortality rates in Argentina using mixed Poisson models Cristina Cuesta, María Dolores Ugarte Missing Value Effect on the Estimation of Item Response Theory Parameters A Simulation Study by Increasing the Item Difficulty Level Alejandra Arias Salazar A Spatial Analysis of South African Secondary School's Matric Pass Rates Arulsivanathan Naidoo Delayed Childbearing, Age-Related Infertility and Assisted Reproduction Technology: Latent Class Analysis Application to Brazil, 2010

29 July 2015, Wednesday 16:00-17:40

IPS001 Room: 201C	Recent advances in statistical machine learning and applications Organiser and Chair: Yufeng Liu Individualized Rank Aggregation using Nuclear Norm Regularization Sahand Negahban, Yu Lu Mixed Graphical Models with Applications to Cancer Genomics Genevera Allen, Eunho Yang & Pradeep Ravikumar, Ying-Wooi Wan & Zhandong Liu, Yulia Baker PenPC: A Two-step Approach to Estimate the Skeletons of High Dimensional Directed Acyclic Graphs Wei Sun, Jichun Xie, Min Jin Ha
IPS013 Room: 210	Statistical inference on high-dimensional covariance structure Organiser and Chair: Tony Cai Large-scale multiple tests on correlation changes Weidong Liu Rate-Optimal Posterior Contraction for Sparse PCA Harrison Zhou, Chao Gao Multistage Adaptive Testing of Sparse Signals Wenguang Sun, Weinan Wang
IPS030 Room: 201AB	Statistical Machine Learning for Big Data Organiser: Genevera Allen Chair: Ali Shojaie Asymptotic confidence sets for parameters in high-dimensional models Sara Van de Geer Elementary Estimators for High-dimensional Statistical Models Pradeep Ravikumar, Aurelie Lozano, Eunho Yang Sparse Regression Incorporating Graphical Structure Among Predictors Yufeng Liu, Guan Yu Constrained adaptive sensing of sparse signals Mark Davenport
IPS071 Room: 202C	Developments in income inequality across the world Organiser and Chair: Andrew Sharpe The Relationship Between Income and Wealth Inequality: Evidence from the New OECD Wealth Distribution Database Martine Durand, Fabrice Murtin Inequality of Opportunity and Economic Growth: A cross-country analysis Francisco Ferreira, Berk Ozler, Christoph Lakner, Maria Ana Lugo Rising Inequality in OECD Countries: How Does the Middle Class Fare? Stefan Thewissen, Brian Nolan, Lane Kenworthy, Tim Smeeding, Stefan Max Roser
IPS082 Room: 207	Statistical challenges in biology, genetics and biophysics Organiser: Samuel Kou Chair: Yiyuan She Detection of Genomic Signals by Resequencing David Siegmund, Benjamin Yakir, Charlie Xia, Nancy R. Zhang Inference of transcriptional regulation in cancer Shirley Liu, Jun Liu, Matthew Freedman, Peng Jiang Analyzing Single-Molecule Protein-Targetting Experiments via Hierarchical Models Samuel Kou

IPS087 Room: 205	The value of statistics for policy-making: the case of food and agricultural statistics Organiser: Pietro Gennari Chair: Naman Keita Measuring the use of statistics in designing food and agricultural policies Pietro Gennari, Claudia De Vitiis, Valentina Gualtieri The Value of Census Statistics in England and Wales Ian Cope Improving the Data Infrastructure for Food and Nutrition Policy Research Denbaly Mark Evidence for evidence: Do better statistics lead to better policy decisions? The case of food and agriculture. Frances Harper
IPSO96 Room: 202A	Panel Type Session Maximizing the Likelihood of Diverse Leadership in Statistical Sciences Organisers: Yulia Gel, Amanda Golbeck Chair: Yulia Gel Ksenija Dumicic Ola Awad Roy Welsch Ejaz Ahmed Nozer Singpurwalla
IPS122 Room: 203B	Bayesian Analysis of Complex Survey Data Organiser: Sahar Zangeneh Chair: Partha Lahiri Selection of values to generate multiply imputed partially synthetic data for protecting confidentiality Robin Mitra Bayesian post-stratification models using multilevel penalized spline regression Qixuan Chen, Yajuan Si Bayesian inference for the finite population total from a heteroscedastic probability proportional to size sample Sahar Zangeneh, Roderick Little Discussant: Roderick Little
IPS129 Room: 202B	Recent methodological developments in data-driven personalized medicine Organiser: Bibhas Chakraborty Chair: Hua Zhong A cure-rate model for estimating the optimal dynamic treatment sequence following bone marrow transplantation Erica Moodie Efficient augmentation and relaxation learning for treatment regimes using observational data Yingqi Zhao Estimating optimal shared-parameter dynamic regimens with application to a multistage depression clinical trial Palash Ghosh, Bibhas Chakraborty, Erica Moodie, Augustus Rush
IPS135 Room: 101	State of the ISI Family II: Views from the Presidents of ISI, IAOS, IASS, and IASE Organiser and Chair: Vijay Nair The ISI Family: Accomplishments, Opportunities, and Challenges Vijay Nair The IASS, what are we for and what are our main challenges Danny Pfeffermann Challenges for the IAOS in the Changing Environment Shigeru Kawasaki IASE and educational challenges in statistics Iddo Gal

29 July 2015, Wednesday 16:00-17:40

IPS136 Room: 203A	Panel Type Session Recent developments on analysis and dissemination of data on quality-of-life Organiser: Jean-Louis Mercy Chair: Marleen De Smedt Jean Louis Mercy Philippe Cuneo Glenn Everett Enrique Ordaz Jennifer Yeh Hsiu-Jen
STS018 Room: 208	Purchasing Power Parity Concepts and Methodology, A Multifarious Outlook Organiser: Chellam Palanyandy Chair: Oliver Chinganya Updating Benchmark PPP for Non-Benchmark Years: A Cost Effective Alternative to the Conventional Full-Scale Exercise Yuri Dikhanov Subnational Purchasing Power Parities - Significance at National Level D.S. Prasada Rao A Multi-Facetted Outlook at Purchasing Power Parities Majed Skaini
STS044 Room: 204A	Spatio-temporal modeling of environmental data Organiser: Alexandra Schmidt Chair: Alessandro Fasso Lost Moments: The Effect of Pre-processing on Environmental Data Luke Bornn, Hannah Director Policy optimization for dynamic spatiotemporal systems Brian Reich Dynamic Multiscale Spatiotemporal Models for Poisson Data Thais Fonseca, Marco Ferreira Spatio temporal models for skewed processes Alexandra M. Schmidt
STS051 Room: 211	Travelling towards a better measurement of tourism Organiser: Oliver Herrmann Chair: Ronald Jansen Sub-national measurement of tourism in Brazil Neiva Duarte Conceptional advances in measuring tourism at sub-national level Alzua Aurkene
STS052 Room: 209	Measuring wellbeing and its sustainability, between indicators and models Organiser and Chair: Filomena Maggino Sustainability of wellbeing: the case of BES for Italy Fabiola Riccardini Aligning corporate sustainability reporting and official statistics in the context of the Post-2015 Development Agenda Pietro Bertazzi Indicators for the smart cities: What do we need from a planning point of view? Rudolf Giffinger Towards Sustainable Development Goals: Statistical and Policy Issues Enrico Giovannini

STS055 Room: 204B	Modern Developments In Functional And High-Dimensional Data Analysis And Applications Organiser: Thaddeus Tarpey Chair: Nancy Garcia Recent Advances in Clustering High Dimensional Functional Data Thaddeus Tarpey Modeling Aggregated Functional Data Ronaldo Dias
	Biosignatures for Treatment Response Based on Functional and Imaging Data R. Todd Ogden Modeling Strategies for Developing Treatment Response Indices Eva Petkova
STS061 Room: 204C	Robust statistical methods for high-dimensional data Organiser and Chair: Peter Filzmoser Algorithms for robust regression and variable selection in high-dimensional settings Andreas Alfons, Christophe Croux, Sarah Gelper, Viktoria Ollerer Robust regression for large-scale neuroimaging studies Virgile Fritsch Robust estimation of high dimensional Generalized Linear Models Eunho Yang, Ambuj Tewari, Pradeep Ravikumar Robust generalized method of wavelet models for latent stochastic processes Maria-Pia Victoria-Feser, Jan Skaloud, Stephane Guerrier, Yannick Stebler
STS073 Room: 203C	Agriculture Master Frame: beyond creation Organisers: Andrea Diniz da Silva, Flavio Bolliger Chair: Andrea Diniz da Silva A New Paradigm for Agricultural Statistics - A World Without Censuses Frederic Vogel Updating sampling frames for agricultural statistics: approaches, challenges and issues Elisabetta Carfagna Contemporary changes in the sampling frame for agriculture statistics in Canada Jeffrey Smith Discussant: Reilly Joseph
OR-B06 Room: 212	Methods and Theory 6 Forecasting high frequency data with complex multi-layer seasonality using covariates Shubhabrata Das Extending the General Linear Model for analyzing fMRI data to a constrained Multivariate Regression Model Rajesh Nandy, Dietmar Cordes, Rajesh Nandy MGARCH models: Tradeoff between feasibility and dynamic dependencies in volatilities and covariances Luiz Hotta, Daniel De Almeida, Esther Ruiz Wild Bootstrap Tests for Autocorrelation in Vector Autoregressive Models Niklas Ahlgren, Paul Catani Weighted entropy-power inequality Salimeh Yasaei Sekeh, Yuri Suhov Space-Time Generalized Additive Models Ali Mosammam

PP-A05

Applications 5

Room: 206

The Impact of Macroeconomic Policies on Manufacturing Industry Evidence From Korea, Lessons to Egypt

Embareka Abouellial

Urbanization on Agriculture: India

Chanchal Pramanik, Suhrit Dey

Statistical Modeling of Mutual Influence of the EU and Russia Industrial Growth in Conditions of Economic Instability

Elena Zarova

The estimation of a VECM for a small open economy with exogenous variables

Johan Lyhagen, Sebastian Andersson

A New Access Mode to IAB's Scientific Use Files

Joerg Heining

Clustering Correlation between Crude Oil and National Stock Markets Andre Salles, Maria Eduarda Silva, Paulo Teles

Informal Settlers in the Philippines

Mary Ann Magtulis

A classification approach to identify fraudulent electricity usage in Nelson Mandela Bay Municipality

Gary Sharp, Sisa Pazi

Causality between public bond markets and financial stability in an emerging economy

Héctor Zárate, Jorge Ramos

Firms' growth strategy: A SEM approach for a micro level analysis of Italian firms

Matilde Bini, Alessandro Zeli, Leopoldo Nascia

A Markov Regime Switching Approach for Estimating Commodity Prices Changes with Location of the Change-Points

Hilaire Hounkpodote

Prediction of poverty in Latin America: model selection for the 2000s census round

Pier de Maria

The statistics profession in Costa Rica and its challenges

Oscar Hernande

Use the techniques of multivariate analysis to master the challenge of youth socio- economic insertion

Yassine Abahamid

PO-E04

Room: Poster

Business and Industry 4

Planning and Control of Projects with a Service Level and Different Types of Precedence Relationships Using Stochastic Simulation

David Muñoz, Diego Muñoz

Adaptive Geostatistical Designs (AGD)

Michael Chipeta, Dianne Terlouw, Kamija Phiri, Peter Diggle

Optimum designs with leverage control

Marcelo Silva, Luzia Trinca

Robust Statistical Methods for Applications in Quality Control

María Allasia, Fernanda Méndez, Liliana Severino, María Allasia, Marta

Quaglino, Marta Ruggieri

Active Learning Procedure via Sequential Experimental Design and Uncertainty Sampling

Eunsik Park, Jing Wang

Control charts in anticoagulant treatment

Susana Martins, Lino Costa, Pedro Oliveira

A New lifetime model for multivariate survival data with a surviving fraction

Vicente Cancho, Dipak Dey, Francisco Louzada, Gladys Barriga

A new non-default rate regression model for credit scoring data: An application to a Brazilian bank personal loan portfolio data

application to a Brazilian bank personal loan portfolio da Gladys Barriga, Francisco Louzada, Vicente Cancho

Analysis of Survival Data Using Hypertabastic Models

Karan Singh, Mohammad Tabatabai, Sejong Bae

Statistical Process Control Charts: Bibliometric Analysis of Publications in

Brazil

Thaliane Freitas, Andrea Konrath, Custodio Alves, Elisa Henning, Olga Walter Shewhart and EWMA Control Charts in the analysis of water consumption in buildings

Andrea Konrath, Andreza Kalbusch, Elisa Henning, Thaliane Freitas

Optimal Periodic Maintenance Policy under the Arithmetic Reduction Age Imperfect Repair Model

Maria Luiza Toledo, Enrico Colosimo, Gustavo Gilardoni, Marta Freitas

A visit design of a data collector robot in a wireless sensor network

Márcia Barbian, Andrea Tavares, Renato Assunção

Modeling and forecasting the default rate over 90 days in the presence of explanatory Variables

Guilherme Zubatch Da Cunha, Eniuce Menezes De Souza, Jennifer Kung, Tiago De Cequeira Lima

PO-H04

Room: Poster

Environmetrics 4

A comparative analysis of clustering algorithms to identify the homo geneous rainfall gauge stations of Bangladesh

Sangita Paul, Mohammad Alam

Modeling tree species abundance for different diameter limits in a tropical forest

Rafaela Naves, Edson José Silva, Eimi Arikawa, João Luís Batista

Model selection and verification for ensemble based probabilistic

forecasting of air pollution in Oslo, Norway

Sam-Erik Walker, Gudmund Hermansen, Nils Hjort, Sam-Erik Walker

Quality Score of Municipal Management in Environment

Mônica Silva, Héliton Tavares

30 July 2015, Thursday 09:00-10:10

IPS099 Room: 201AB	Special Invited Lecture: Challenges with Big Data: Computational and Statistical Issues Organiser and Chair: Byeong Park Challenges with Big Data: Computational and Statistical Issues Martin J. Wainwright
IPS104 Room: 205	IASE President's Invited Session: Implications of a data-rich, multivariate world: New needs and directions in statistical education Organiser and Chair: Iddo Gal Implications of a data-rich multivariate world. New needs and directions in statistical education Joachim Engel Implications of a data-rich multivariate world. New needs and directions in statistical education Jim Ridgway, Joachim Engel
IPS109 Room: 207	William S. Gosset ISBIS Lecture: Reliability in the 21st Century Organiser: Vincenzo Vinzi Chair: David Banks Reliability in the 21st Century William Meeker
IPS143 Room: 101	Mahalanobis Lecture: Development and Statistics - Challenges for the 21st Century Digital World Organiser and Chair: Vijay Nair Mahalanobis Lecture: Development and Statistics Challenges for the 21st Century Digital World Carlos Jarque
OR-B05 Room: 210	Methods and Theory 5 Unified Hypothesis Testing for Bayesian and Frequentist Approaches Ivair Silva Multivariate Log-CFUSN Distribution: Bayesian inference and properties Rosangela Loschi, Marina Queiroz Tests for the equality of conditional variance functions in nonparametric regression Juan-Carlos Pardo-Fernandez, Anouar El Ghouch, Maria-Dolores Jimenez-Gamero Pairwise and Other Post-hoc Tests of Spatial Clustering Based on NNCTs Elvan Ceyhan

IPS009 Room: 202B	Statistical modeling and inference for spatial and spatio-temporal extremes Organiser and Chair: Jean-Noël Bacro Climate Extremes: Attributions and Future Projections Richard Smith Extreme cold winters and ecological impacts on northern forests Anthony Davison, Emeric Thibaud Modeling different degree of the asymptotic dependence for spatial extremes Gwladys Toulemonde, Carlo Gaetan, Jean-Noel Bacro Inferring spatio-temporal patterns in extreme snow variables using max- stable processes Nicolas Eckert, Gilles Nicolas, Johan Gaume, Juliette Blanchet, Samuel Morin Updating ruin models in a climate change context Pierre Ribereau, Dominik Kortschak, Esterina Masiello Discussant: Philippe Naveau
IPS028 Room: 101	Panel Type Session Open Data: new challenges and opportunities for NSOs Organisers: Federico Segui, Amparo Ballivian Chair: Amparo Ballivian Tim Herzog Avi Bender Eduardo Gracida Campos Roma Chappell Discussant: Federico Segui
IPS037 Room: 202A	Computational inference for complex data Organiser and Chair: Michele la Rocca Novel methods for the statistical analysis of multiple and repeated rankings Michael Schimek, Vendula Svendova Neural Network Sieve Bootstrap for Nonlinear Time Series Michele La Rocca, Cira Perna, Francesco Giordano A Permutation Test for the Two Sample Design in Case of Clustered Data Livio Corain, Eleonora Carrozzo, Luigi Salmaso, Rosa Arboretti, Stefano Bonnini
IPS045 Room: 205	Statistical disclosure control for official statistics in the 21st Century Organiser and Chair: Gemma Van Halderen U.S. Agricultural Statistics Current Disclosure Practices and Future Improvements James M Harris Disclosure Risk Assessment for Official Statistics Chris Skinner Challenges for statistical disclosure control in a world with big data and open data Kees Zeelenberg, De Wolf Peter-Paul Statistical Disclosure Control - Can Our Current and Emerging Approaches Cope? Christine O'keefe Discussant: Natalie Shlomo
IPS088 Room: 201AB	Challenges for the Development of Statistics in Latin American Countries Organiser: Pedro Morettin Chair: Juan Carlos Abril Challenges for the Development of Literacy Statistics in Latin American Countries Adriana D'amelio An Overview of Undergraduate Statistics Degree in Latin American Lúcia Barroso A Survey on Postgraduate Programs in Statistics around Latin-America Leonardo Trujilo, Victor Leiva A Challenging Future: National Statistical Offices in Latin America Mario Palma Discussant: Enrique de Alba

30 July 2015, Thursday 10:30-12:30

IPS116 Room: 207	Panel Type Session Statistical Capacity Building: Recent Experiences, Needs and Challenges Organisers: Jozef Teugels, Vijay Nair Chair: Steven Heeringa Arnoldo Frigessi Eric Vance Ada Van Krimpen Delia North Oliver Chinganya Denise Silva Misha Belkindas Jef Teugels
IPS118 Room: 210	Modern Methods of Environmental Epidemiology: from Remote Sensing to Random Graphs and Social Media Organiser: Yulia Gel Chair: Kimihiro Noguchi Adaptive Forecasting of a Re-emerging Disease Chikungunya in Central and North Americas with the Online Social Media Input Yulia Gel, Lilia Ramirez Ramirez Big Data Opportunities: Use of Social Media Analytics for Forecasting Infectious Diseases Lilia Ramirez Ramirez, Patrick Thompson, Yulia Gel Meta-analysis in Application to Tracking Re-emerging Infectious Diseases with Social Media S. Ejaz Ahmed Clustering Google Dengue Trends and Chikungunya in Central America: a data-driven nonparametric approach Vyacheslav Lyubchich Discussant: Elena Naumova
IPS134 Room: 202C	The International Comparison Program: Results of the 2011 Round and the Way Forward Organiser: Nada Hamadeh Chair: Grant Cameron Application of PPP exchange rates for the measurement and analysis of regional and global inequality and poverty D.S. Prasada Rao Beyond the 2011 round of the ICP: Recommendations of the ICP 2011 evaluation and the way forward Nada Hamadeh Making Sense of the Results of the 2011 International Comparison Program Frederic Vogel Effect of new benchmark PPPs on the PPP time series Bettina Aten, Alan Heston Discussant: Michel Mouyelo-katoula

STS017 Room: 204C	Population and Housing Censuses: Methodology, Technology and Innovation Organisers: Svetlana Nikitina, Olga Bashina Chair: Pavel Smelov Opening new frontiers in census-taking in Europe: "To boldly go where no man has gone before?" Paolo Valente Preparing for the 2020 round of international censuses of population and housing: reflecting socio-demographic, technological and methodological developments Ian White Towards the 2020 World Population and Housing Censuses Programmes: What can we tell from the lessons learned in the 2010 round? Keiko Osaki-Tomita Migration Research at the 2010 Round of Population Censuses in the CIS Member States: Analysis of Results Irina Zbarskaya The Australian Census - Innovations in Design, Methods and Technology Duncan Young, Jenine Borowik, Roslyn Harvie
STS022 Room: 204A	Bayesian Spatial modelling of global health issues in Sub-Saharan Africa based on complex survey data Organiser and Chair: Ngianga-Bakwin Kandala Co-distribution of malaria, fever, diarrhea and acute respiratory infection among children under the age of five years in Somalia Damaris Kinyoki, Abdisalan Noor, Grainne Moloney, James Berkley, Ngianga-Bakwin Kandala, Samuel Manda Multivariate spatial point process models for analysis of patterns of urban malaria Lawrence Kazembe, Don Mathanga A spatial analysis of the effects of the integrated health systems strengthening programme on maternal and child health coverage changes in sub-Saharan Africa Samuel Manda, Besada, Besada, Nobubelo Ngandu, Tanya Doherty Bayesian Weighted Regression Approach for Modelling Fertility Level in Nigeria Samson B. Adebayo, Ezra Gayawan Individual and contextual determinants of tobacco use and cigarette smoking in Kenya: a spatial analysis Thomas Achia Discussant: Gebrenegus Ghilagaber
STS037 Room: 203B	CCSA Session On International Statistics: Statistical Indicators For Monitoring And Achieving The Sustainable Development Goals Organiser: Per Nymand-Andersen Chair: Werner Mr Bier The role of International Organizations in monitoring food security Pietro Gennari Designing an Indicator and Monitoring Framework for the Sustainable Development Goals and the Post-2015 Development Agenda Ronald Jansen, Francesca Perucci, Matthias Reister, Yongyi Min Measuring decent work beyond 2015: Adapting concepts to changing patterns of work Rafael Diez De Medina The Fundamental Pillars necessary for a Modern National Statistical Service Steve Macfeely Measuring the New Sustainable Development Goals: Opportunities and Challenges for Human Rights Nicolas Fasel, Grace Steffan

international initiatives Bruno Tissot

from the MDGs for the SDGs Michael Herrmann

Statistical challenges related to financial inclusion: national practices and

Consequential omission: How demography shapes development lessons

STS065 Room: 204B	Future of Official Statistics in the Arab Region in light of the Post 2015 Development Agenda Organiser: Ahmad Hussein Chair: Saleh Al Nabit The Role of National Statistical Offices in the Arab Region on SDGs Ola Awad Impact of emerging concepts on official statistics on the road to post-2015 development agenda Savas Alpay, Atilla Karaman Institutional Building in GCC countries: The Achievements of GCC-Stat Sabir Al Harbi Post 2015 Development Agenda in Egypt Abdel-Aatty Ayat Post 2015 Development Agenda challenges to Official Statistics in the Arab Region - Sudan case as a post-conflict country Yasin Abdin
STS070 Room: 203C	Complex Stochastic Systems and their Statistical Analysis Organiser: Elena Yarovaya Chair: Carlos Braumann Large deviations and statistical analysis for queueing systems with regenerative input flow Andrey Tkachenko, Elena Bashtova, Larisa Afanasyeva Statistical analysis of stochastic processes in social networks Natalia Markovich Two-sex branching models in Genetics Miguel Gonzalez, Cristina Gutierrez, Rodrigo Martinez Controlled branching processes: new result lines Ines del Puerto, Carmen Minuesa, Miguel Gonzalez Applications of global limit theorems for simulation of a cell population evolution Elena Yarovaya Discussant: Vladimir Vatutin
STS086 Room: 203A	Integrating statistics and geospatial information - essential information for sustainable development Organiser: Ekkehard Petri Chair: Marie Haldorson Spatial statistics on Web A joint project between the NSI and the NMA to improve usability of spatial statistics Marja Tammilehto-Luode jSTAT MAP: New geostatistics web service for small area statistics and its impact Naoki Makita Bringing together statisticians and geospatial experts to connect people with place Gemma Van Halderen, Martin Brady Integrating Statistics and Geography to Climate change vulnerability studies Maria do Carmo Bueno, Álvaro D'antona Importance of Integrated Statistical Geospatial Information for Sustainable Development Rolando Ocampo Discussant: Walter Radermacher

OR-B08 Room: 208	Methods and Theory 8 Generalized Gaussian Process Regression Model for Non-Gaussian Functional Data Jian Shi, Bo Wang Quantifying the within-group contribution to the variability of count traits Clarice Demétrio, Carlos Dias, Claudio Souza, Geert Molenberghs, Izabela Oliveira Approximating the full likelihood for marginal 2 x J contingency tables and case-control data. Markus Stein, Alastair Scott, Chris Wild Non-homogeneous Poisson process with nonparametric frailty Vaclav Slimacek, Bo Lindqvist Optimal inference via confidence distributions for two-by-two tables modelled as Poisson pairs: fixed and random effects Céline Cunen, Nils Hjort Selecting Tuning Parameters for sparse regression models via Generalized Information Criterion Fumitake Sakaori Variance component estimation on Competing risk analysis with masked causes and gaussian random components: A simulation study. Rafael Maia, Demétrio Clarice, Labouriau Rodrigo
OR-E02 Room: 211	Business and Industry 2 Model of fatigue failure due to equicorrelated multiple cracks using extended Birnbaum-Saunders distribution Anuradha Roy, Juan Carlos Pina, Ricardo Leiva, Rubén Bageta An Updated Bayesian Reliability Analysis Based On Step-Stress Accelerated Degradation Data Via Gamma Processes Tsaii-Hung Fan, Cian-Hui Chen Prediction of Survival Times of Censored Items in a Simple Step-Stress Model with Progressive Type II Censoring Indrani Basak, N. Balakrishnan Balakrishnan Weibull Approximation to a Competing Risks Model With Two Independent Weibull Distributed Failure Modes Sergio Yáñez, Nelfi Gonzalez A Nonparametric Multivariate Scatter-Based Ranking Method with Applications to Biomedical Research and Industrial Quality Management Stefano Bonnini, Antonella Peruffo, Bruno Cozzi, Livio Corain, Luigi Salmaso, Rosa Arboretti, Stefano Montelli Model selection curves for survival analysis with accelerated failure time models Jamil Karami, Kehui Luo, Thomas Fung Tests for Monotonic and Nonmonotonic Trend in Time Censored Recurrent Event Data Jan Terje Kvaløy, Bo Henry Lindqvist
OR-H01 Room: 209	Environmetrics 1 Construction of flood frequency curves in the lower Limpopo River basin of Mozambique using Bayesian and Markov chain Monte Carlo methods Daniel Maposa Comparative assessment of global horizontal radiation and temperature data for photovoltaic plant applications Chantelle Clohessy, Ernest Van Dyk, Frederik Vorster, Gary Sharp Assessing the impacts of climate change on rainfed wheat production in Hamedan Province Ali Mosammam, Hassan Mohammadian Mosammam, Jamileh Tavakoli Nia, Mozaffar Sarrafi A model for collocation uncertainty of atmospheric profiles Alessandro Fassò, Maria Franco-Villoria, Rosaria Ignaccolo Clustering Wind Speed Data by Hyperbolic Smoothing Clustering Method Vinícius Xavier, Adilson Xavier, José Francisco Pessanha, Luiz Antônio Oliveira Deriving minimal sea surface temperature monitoring networks from remote sensing data using coherency analysis Francesco Finazzi, Scott Marian Statistical considerations on reducing measurement network size for estimating pollution in rainfall in the UK Rognvald Smith, Christine Braban, David Fowler, Lindsay Banin

30 July 2015, Thursday 10:30-12:30

OR-F01 Room: 212	Official Statistics 1 Measuring The ICT Through Satellite Account: Malaysia's Experience Mazreha Yaakub, Fadzilah Aini Mustaffa, Kanageswary Ramasamy, Mazreha Ya'akub, Nahdhatul Akmal Abu Bakar Application of an alternative method for compiling business demography statistics of establishments Masao Takahashi, Isao Takabe Water, Sewage and Garbage: what do we want to know with the household surveys of IBGE?
	Sonia Maria Oliveira, Aristides Lima Green, Frederico Barcellos, Paulo Mibielli de Carvalho Analysis of the dynamics behind the take-up of welfare benefits among young people by means of combined administrative registers Vesa Ylönen
	Clustering of demographic structures: Observations on US counties for 2000 and 2010 and on Brazilian municipalities for 2010 Simona Korenjak-Cerne, Natasa Kejzar, Simona Korenjak-Cerne, Vladimir Batagelj
	Integrated Structural Business Surveys - The Brazilian Experience Priscila Koeller, Augusto Fadel, Carlos Arieira, Gisele Del Carpio, Marcia Quintslr Implementation of SNA 2008 International Standard in Ukrainian Statistical Practice Tetiana Motoryna

IPS007 Room: 201AB	Recent trends in non- and semi-parametric inference Organiser and Chair: Byeong Park
	Statistical Challenges in Nanoscale Fluorescence Microscopy Axel Munk
	Multiscale Inference for Blind Demixing with Applications in Cancer Genetics
	Merle Behr, Axel Munk, Chris Holmes In-sample density forecasting
	Enno Mammen, Byeong Park, Jens Nielsen, Maria Dolores Martinez Miranda,
	Young Lee
IPS015 Room: 201C	Variable selection and dimension reduction in high-dimensional inference Organiser and Chair: Woncheol Jang
	Asymptotic Normality in Estimation of Large Ising Graphical Model Zhao Ren, Cun-Hui Zhang, Harrison Zhou
	Consistenct model selection criteria for quadratically supported risks Yongdai Kim, Jong-June Jeon
	Another Empirical Bayes Approach for a Gaussian Compound Decision Problem!
	Feng Liang, Yunbo Ouyang Statistical and computational trade-offs in estimation of sparse principal
	components Richard Samworth
IPS042 Room: 205	Quantitative practices that might arise with the use of new technological
ROOM. 203	capabilities for exploring data Organiser and Chair: <i>Theodosia Prodromou</i>
	Creating models and simulations of real world phenomena by defining attributes for a phenomenon
	Theodosia Prodromou Visualizing complex data and working with visual data representations of
	multivariate data
	Jim Ridgway, James Nicholson, Sean Mccusker, Sinclair Sutherland, Spencer Hedger
	Enabling young learners to distinguish mere association from cause-and- effect
	Tim Dunne Discussant: Chris Wild
IPSO47	Sampling Frame and Nonsampling Error Issues in Internet Surveys
Room: 203A	Organiser and Chair: Öztas Ayhan Establishing the accuracy of online panels for survey research
	Jan Brakel, E. Bruggen, J. Krosnick Selection Bias Issues in Internet Surveys
	Zerrin Asan Greenacre Developments in internet collection at Statistics Canada
	Claude Julien
	Discussants: Álvaro González Villalobos
IPS051 Room: 202C	Recent advances in empirical likelihood approaches under complex sampling
	Organiser and Chair: <i>Yves Berger</i> Small Area Quantile Estimation
	Jiahua Chen, Yukun Liu
	An Empirical Likelihood Based Estimator for Responded Driven Sampled Data
	Sanjay Chaudhuri, Mark Handcock Empirical likelihood confidence intervals and hypothesis testing for
	multidimensional parameters when modelling complex survey data Melike Oquz Alper, Yves Berger
	Discussant: Jon Rao

30 July 2015, Thursday 14:00-15:40

IPS055 Room: 207	Innovative Bayesian approaches in Industrial applications Organiser: Sanjib Basu Chair: Fabrizio Ruggeri Unified Competing Risks Limited Failure Models: Bayesian Approaches and Identifiability Issues Sanjib Basu Bayesian Nonparametric Replacement Strategies Refik Soyer, Jason Merrick Semi-Markov modelling of electricity co-generation in residential applications with time-dependent covariates Raffaele Argiento, Antonio Pievatolo
IPS057 Room: 101	Modern Methods in Computational Advertising Organiser and Chair: David Banks Estimating Conversion Rates of Rare Events through a Multidimensional Dynamic Hierarchical Bayesian Framework Hongia Yang Combining preference and social information in recommendation systems using nonparametric Bayesian mixtures Abel Rodriguez, Radhakrishna Vuppala Statistical Methods in Computational Advertising The Past, Present and Future Deepak Agarwal Discussant: Miguel de Carvalho
IPS093 Room: 202A	Statistical Methods and Applications in Health Outcomes Research Organiser: Mousumi Banerjee Chair: Ananda Sen Determinants of Coverage for Various Stages of DPT Immunization in India Arpita Ghosh Statistical interactions and Bayes estimation of log odds in case-control studies Jaya Satagopan, Robert C. Elston, Sara H. Olson Survival Trees and Forest for Thyroid Cancer Prognostication Mousumi Banerjee, Daniel Muenz, Megan Haymart
IPS102 Room: 210	IAOS Journal Paper Session: Measuring indigenous populations across nations: Challenges for methodological alignment Organiser and Chair: Fritz Scheuren Measuring Indigenou Populations Across Nations: Challenges for Methodological Alignment Erica Potts, Brad Petry IAOS Journal Paper: Measuring indigenous populations across nations: Challenges for methodological alignment Brenda Elias Ethnicity, Race and Indigenous Life Expectancy in Aotearoa New Zealand John Waldon, Kim Dunstan
IPS123 Room: 202B	High Dimensional Causal Discovery Organiser: Ali Shojaie Chair: Noah Simon Estimation of sparse directed acyclic graphs through a lasso framework Judy Zhong, Son Won Han Invariant Prediction and High-Dimensional Causal Inference Jonas Peters, Nicolai Meinshausen, Peter Buhlmann Estimation of directed acyclic graphs from partial orderings Ali Shojaie Discussant: Peter Buhlmann

STS002 Room: 208	New Directions in the Analysis of Oral Health Data Organiser and Chair: Susmita Datta Inference for Clustered Count Data based on Zero-Inflated Conway- Maxwell-Poisson Distribution with Application to the Iowa Fluoride Study Somnath Datta, Hyoyoung Choo-Wosoba, Steven M. Levy A multilevel model for spatially correlated binary data in the presence of misclassification: an application in oral health research Emmanuel Lesaffre A marginal cure-rate proportional hazards model for spatial survival data Dipankar Bandyopadhyay, Brian Reich, Martha Nunn, Patrick Schnell Bayesian analysis of augmented mixed beta regression models for periodontal proportion data Victor Hugo Lachos Dávila, Diana Soto, Dipankar Bandyopadhyay
STS032 Room: 204A	The use of paradata (survey process data) in response analysis, response monitoring and responsive design Organisers: Gabriele Durrant, Patrick Sturgis Chair: Patrick Sturgis Improving the Efficiency in Interviewer Call Scheduling: Analysing Final Outcome and Length of Call Sequences Gabriele Durrant, Olga Maslovskaya, Peter Smith Predicting Response Mode During Data Collection in the National Survey of College Graduates Chandra Erdman Paradata on the 2010 Brazilian Census: Analysis of the field work supervision process Luciano Duarte, Denise Silva, José André Brito Assessing nonresponse bias using call record data with applications to a longitudinal study Solange Correa, Gabriele Durrant, Peter Smith
STS058 Room: 203C	Statistics for stochastic processes: new trends created by computational implementation and machine learning Organiser: Yasutaka Shimizu Chair: Shimizu Yasutaka Simulation and inference of CARMA and COGARCH models in R and the Yuima package Stefano lacus, Lorenzo Mercuri Parametric estimation for fractional stochastic differential equations in the Yuima package Alexandre Brouste Hybrid multi-step estimation for non-ergodic diffusion processes Masayuki Uchida Approximate Bayesian model comparison of LAQ models Hiroki Masuda, Shoichi Eguchi
STS059 Room: 203B	Functional data analysis for big data Organiser and Chair: Wensheng Guo Spline Smoothing with Applications to Tongue Shape Data Analysis Yuedong Wang Modeling the evolution of dynamic brain processes during an associative learning experiment Hernanrdo Ombao, Mark Fiecas Conditional Spectral Analysis of Replicated Multiple Time Series with Application to Nocturnal Physiology Robert Krafty Variable screening in biothreat detection using weighted leverage score Wenxuan Zhong, Peng Zeng, Wenxuan Zhong, Yiwen Liu

STS078 Room: 204B	Moving the Household Survey Agenda Forward: Evidence from Randomized Survey Experiments in Developing Countries Organiser and Chair: Talip Kilic Skill measurement for large scale household surveys in developing countries Rachid Laajaj, Karen Macours The Who: experimental evidence on the effect of respondent selection on collecting individual asset ownership information Heather Moylan, Talip Kilic Discrepancies in Migration Statistics and their Implication on Well-Being Measures Valerie Mueller, Joyce Chen, Katrina Kosec How reliable are recall data on non-farm household enterprises financial records? Experimental evidence from Malawi James Shaw, Gero Carletto, Heather Moylan, Talip Kilic
STS082 Room: 204C	Extreme values and heavy tailed phenomena 2 Organiser and Chair: John Nolan Super- vs sub-additivity shift in extreme quantiles of linear combination of heavy-tailed random variables Marie Kratz, Bikram Das Ruin probabilities with heavy-tailed streams of claims: multivariate and multi-index models Ugur Alparslan Choice of Threshold With a View Towards Inference on Angular Distribution of Regularly Varying Data Richard Davis, Phyllis Wan
OR-B01 Room: 211	Methods and Theory 1 Four Problems of the Discriminant Analysis Shuichi Shimura Selecting Models in both Location-Scale and Non-Location-Scale Families with Goodness-of-Fit Techniques Claudia Castro-Kuriss, Victor Leiva Hierarchical Clustering for Mixed Feature-Type Complex Data Cheng Wang, Huiwen Wang, Yuan Wei Some Procedures For Identifying Hotspots Rajendra Gurao Robust Bayesian model selection for heavy-tailed linear regression using finite mixtures Marcos Prates, Flávio Gonçalves, Victor D'avila Functional clustering of mouse ultrasonic vocalization data Xiaoling Dou, Hiroki Sugimoto, Shingo Shirahata, Tsuyoshi Koide
OR-H02 Room: 209	Environmetrics 2 Extreme Value Analysis of Global Temperature Anomalies Elizabeth Maharaj One step toward rethinking alternative MDG water accessibility indicator and its health issues Ligane Sene Robust heritability estimation in plant studies Vanda Lourenço, Ana Pires, Miguel Fonseca, Paulo Rodrigues Spatial Modelling of Fish Counts in a Stream Network João Batista Pereira, Alexandra Schmidt, Julie Deschênes, Marco Rodriguez Uncertainty evaluation for functional kriging: an application to the Canadian temperature data set Rosaria Ignaccolo Non-uniformity test for directional data of Japanese active faults Yoshitomo Akimoto, Takenori Sakumura, Toshinari Kamakura

PP-D02	Statistical Education 2
Room: 206	A Peer-Motivated Undergraduate Course Design In Survey Operations: Lessons From The Philippines
	Francisco de los Reyes Teaching Statistics In Other Careers In The 21th Century In Argentina Liliana Severino, Marta Ruggieri
	Developing Ambassadors of Statistics Petteri Baer
	The development direction towards the post-2015 (SDGs) on Korea statistical capacity building experiences Doomahn Kim
	A comparative statistical analysis between teachers` and undergraduate students' perceptions of teaching and learning mathematics Eti Mizrahi, Gizem Intege
	Statistical training in Africa: a case of teaching demographic statistics James Ntozi
	Apps for Statistical Literacy in Africa David Stern
	Identifying and Evaluating Threshold Concepts in First Year Statistics courses at a large university in South Africa
	Andre Swanepoel, Ansie Harding, Johann Engelbrecht, Lizelle Fletcher Application of block maxima model to Madeira Island's maximum annual rainfall data
	Luiz Guerreiro Lopes, Délia Gouveia-Reis, Sandra Mendonça
PP-G04 <i>Room: 206</i>	Survey Statistics 4 On Partial Ranked Set Sampling in Parameter Estimation of Lognormal Distribution
	Girish Chandra, Neeraj Tiwari, Raman Nautiyal Sampling design and sources of information for estimation of forestry sector contribution in Nepal
	Jishnu Bhattarai Application of integration technology to multi-source data in the New Type of Crop Sampling Survey Ge Wei
	Sampling Weights Adjustment for Improving Crops Early Estimates' Precision
	Roberto Gismondi, Loredana de Gaetano Chain event graphs for missing data: exploring informative missing data, with examples from longitudinal studies
	Jane Hutton Note on Jackknife Variance Estimation under Two-stage Cluster Sampling Geunshik Han
	Changes in Internet Participation for Mixed-Mode Surveys over Time Virginia Lesser, Lydia Newton
	Comments of a standard manufacture and the st

Comparison of estimation methods on two-stage cluster sampling with

unknown each cluster size Sang Eun Lee, Key-Il Shin

30 July 2015, Thursday 16:00-17:10

IPS150 Room: 101	President's Invited Keynote Lecture Organiser and Chair: Vijay Nair Google Tools for Data Hal Varian
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PO-A08

Room: Poster

Applications 8

A Study on Factors of Pharmaceutical Sales with Public Data

Geunshik Han, Seokmin Yoon

Drivers of the youth labour market and school-to-work-transitions: evidence from Togo

Banawe Anissa

Assessment On Determinants Of Nutritional Status Of Children Under Five In Hawassa Zuria District, Ethiopia

Dereje Danbe Debeko

Inflation and Economic Growth nexus: Evidence from Ghana

Chioma Nwosu

Innovation as a competitive differential based on investments in R&D by GII countries: A contributing to the global efficiency as to the Data Envelopment Analysis (DEA)

Paulo Bezerra, Rodrigues de Almeida

Evaluation an association study and spatial clustering methods applied to DNA data

Makoto Tomita

Is the Frequency of Stock Price Volatility also a Kind of Financial Risk? Haibo Han

Protein Identification and Quantification: Statistical Challenges Susan Wilson

A Non Parametric Approach to Estimating Joint Maternal and Child Survival Albert Luguterah

Spatial variation of the Socio-Economic Status of Areas in Tshwane Metro Kenneth Chatindiara

Factors influencing Under-five mortality in South Africa Collen Motsepa

Modeling Breast Cancer screening data using triple interaction with Structured Additive Regression (STAR) models

Elisa Duarte, Bruno De Sousa, Carmen Cadarso-Suárez, Thomas Kneib, Vítor Rodrigues

Measurement of multidimensional child poverty in Morocco 2000-2011 Methodology and Results

Abdeljaouad Ezzrari, Khalid Soudi

Data Analysis Athropometric Facial - A Study Non Randomized

Brunno Sousa Ramos, Pedro Pinto de Lima

 $\label{eq:multiple limit} \mbox{Multiple Imputation in Logistic Regression Models: factors associated to the low weight at birth in the Parana State}$

Marina Gandolfi, Eraldo Silva Schunk, Isolde Previdelli

Comparison of distributions Log Normal, Weibull and Exponential using HIV data

Vinicius Raniero Angelo

Longitudinal Data Analysis Regarding Memory Loss (Amnesia) In Rats Submitted To Cerebral Ischemia And Treated With Fish Oil

Matheus Henrique Dal Ribeiro, Humberto Milani, Isolde Previdelli

Dialysate calcium concentrations in hemodialysis - a linear mixed effects model

Isolde Previdelli, Omar Pereira, Paulo Pereira, Paulo Torres, Rosangela Santana

Modelling cortisol data in Brazilian children using Bayesian linear mixedeffects models

José Gomes, Cibele M. Russo, Victor Fossaluza

Survival Analysis of Children Under-Five: A comparative Study between Gauteng and the Rest of South Africa (ROSA)

Zandile Nukeri

Multinomial regressions to identify phenotypes in Obsessive-Compulsive Disorder

Guaraci Requena

Application of nonlinear mixed models to describe growth patterns and sexual dimorphism in capybaras (Hydrochoerus hydrochaeris).

Gerardo Cueto, Adriana Perez

Item Position Effect in ENEM Assessment of Brazil

Thamara Medeiros, Helen Gomes, Héliton Tavares, Maria Regina Madruga

PO-B12

Methods and Theory 12

Room: Poster

Multistate models in soccer games

Freddy Lopez Quintero

The Conditional Distribution of the sum of Independent and non Identically Distributed Binary Answers in Item Response Models

Jorge González

Cosine Process: Parameter Estimation and Codifference

Josiane Stein, Ary Medino, Sílvia Lopes

Influence Diagnostic for Semiparametric Partially Nonlinear Mixed-Effects Models

Robson Jose Mariano Machado, Cibele Maria Russo

Testing for a change in covariance operator

Daniela Jaruskova

On the estimation of exponential regression models: an integrated GMM approach

Joaquim Ramalho, Esmeralda Ramalho

Structural Equation Modelling as an alternative to Multiple Linear Regression Models

Miriane Zucoloto, Edson Martinez, João Maroco, Juliana Campos

Consistent Variable Selection in Functional Linear Regression Model Julian Collazos, Adriano Zanin Zambom, Ronaldo Dias

A k-sample median test based on the length of confidence interval for median survival time with right-censored data

Yun Chan Chi

Verification of absolute nonsingularity of 3-tensors through positivity of a single variate characteristic function

Toshio Sakata, Toshio Sumi

Some remarks on tests of multivariate normality based on measures of shape

Czeslaw Domanski

A restricted variable dispersion beta regression model: a frequentist approach

Luis Grajales, Oscar Melo Martínez

Mixture models applied to heterogeneous populations

Carolina Cavalcante, Kelly Gonçalves

Ana Zerbeto, Viviana Giampaoli

A quantile-based generalized logistic distribution possessing skewness-invariant measures of kurtosis $\,$

Paul Van Staden, Robert King

Evaluation of the parameter estimators behavior in a nonlinear model with misspecified random effects distribution

Mara Catalano

Assimilation of functional magnetic resonance imaging data using the Extended Kalman Filter

Alice Moraes, Miguel Souza, Valcir Farias

Characterization, properties and applications of gpot-normal distributions Lila Ricci

PO-F06

Room: Poster

Official Statistics 6

Standardization and quality metadata of statistical survey Comparison between (SDMX- DDI) Standards

Waleed Abd-Elkhalik, Waleed Abd-Elkhalik Mohamed

A Study on the Modernization Indicator System of the Service Industry Gang Wei, Aihong Guan

An analysis of the contribution of United Nations principles and recommendations for population and housing censuses in African countries Arlindo Charles

The build of a statistical register based on administrative data for the production of international migration statistics in the Andean Community countries

Jinob de la Cruz, María del Pilar Cerrón

Diversified services of social protection statistics in Hungary: challenges + answers = good practice?

Eszter Németh

Current status of data provision to international Organization, usage monitoring and improvement management plan in Korea

Youn Young Park, Byeong Hyeon Kim, Sungkyu Choi

Design, Population Coverage and Results of the Regional Health and Nutrition Survey on Preschool Children from Oil States of Southeastern Mexico

Fidel Ulín-Montejo, Jorge Torres-López, Marcelina Cruz-Sánchez, Rosa Salinas-Hernández

Applicability of Periodic Censuses Data Quality Assessment Methods in China

Donghua Wan, Ran Tao

Combining micro and macro data in hedonic price indexes

Esmeralda Ramalho, Joaquim Ramalho

Studies on the Reform of China Statistical Management System Keain Li. Qina Ye. Weivue Yu

Empirical Study for the Support Force of Modern Service Industry

Keain Li, Fushena Ye, Yonahona Cui

Know the times - transforming Hungarian dissemination products from a classic automobile into a dynamic cabRIO

Norbert Bakos

Saving-Investment Imbalance and the Public Debt

Masako Tsujimura, Kazusuke Tsujimura

Multidimensional measure of social cohesion A benchmarking analysis on a panel of countries

Khalid Soudi

Construction of statistical monitoring system of emergency social crisis in China

Haiming Guo

Measure of multidimensional poverty Robustness of indices to weighting schemes

Khalid Soudi

Statistical use of administrative records: the single register of cases of violence against women

Verónica Budich, Ana Feldman, Mirtha Mestre

How relevant is communicating with the media to National Statistical Offices: the IBGE case

Luiz Albuquerque Bello, Claudio Faria Marques, Diana Paula De Souza, Irene Cavaliere Gomes, Mariana Vieira Viveiros, Silvia Maia Fonseca

Measuring Poverty in Hong Kong

Agnes Lo

Statistics Help Decision Making

Wanda Yue

The New Standards of Measuring Employment and Possible Effects on the Turkish Labour Market Indicators

Tuna Kemali

through creating a unique ID Rawia Wagih Ragab

PO-G05	Survey Statistics 5
Room: Poster	Methodology for cross-cultural adaptation of psychometric instruments
	Wanderson Silva, David Costa, Filipa Pimenta, João Maroco, Juliana Campos,
	Juliana Dias
	Note on Jackknife Variance Estimation under Two Stage cluster sampling Sang Eun Lee
	Ratio estimators of population mean using auxiliary information in median
	ranked set sampling
	Nursel Koyuncu
	Domain estimation for a censored study variable
	Danute Krapavickaite
	A proposal of a method for distinguishing MAR type missing data from
	MCAR type
	Jerzy Korzeniewski
	Small area estimation for rural development statistics in Hungary
	György Lengyel
	Imputation of multivariate continuous data with nonignorable missingness
	Thais Paiva, Jerry Reiter
	Imputation of systematically missing predictors in an individual participant
	data meta-analysis: A generalized approach using MICE
	Shahab Jolani
	Ratio type estimators for estimating proportions in a dual frame approach
	Hemilio Coelho, Cristiano Ferraz, Diogo Candido
	Application Of Ibge Databases For Operational Plan In Complex Sample
	Study Seroprevalence
	Roberto Dusi, Mariana Fehr, Raynner Augusto Parente, Roberto Dusi

Overcome the duplication of data in the economic establishments in Egypt

31 July 2015, Friday 09:00-10:10

IPS101 Room: 207	Panel Type Session IAOS President's Invited Session: Towards integration of statistical and geospatial information Organiser and Chair: Shigeru Kawasaki Pengde Li Rolando Ocampo Rochelle Morgan Discussant: Gemma Van Halderen
IPS113 Room: 210	Special Invited Lecture: What is Perfect Simulation, and What Can it Do Perfectly for You? Organiser and Chair: Francisco Samaniego What is Perfect Simulation, and What Can it Do Perfectly for You? Nancy Garcia
IPS131 Room: 201ABC	Karl Pearson Lecture: Statistical Estimating Functions and Their Biomedical Applications - The Story of Generalized Estimating Equations Organiser: Vijay Nair Chair: Helen MacGillivray Statistical Estimating Functions and Their Biomedical Applications; The Story of Generalized Estimating Equations Scott Zeger, Kung-Yee Liang
IPS149 Room: 205	Special Invited Lecture: Developments in Data Mining and Machine Learning - An Overview Organiser: Vijay Nair Chair: John Bailer Developments in Data Mining and Machine Learning: An Overview David Banks

31 July 2015, Friday 10:30-12:30

IPS022 Room: 205	Changes in population and housing censuses: from evolution to revolution? Organiser: David Thorogood Chair: Eduardo Barredo Capelot Spain 2021. Is it possible to carry out a Census without any fieldwork operation? Jorge Vega Valle, Antonio Argueso Jimenez, Carmen Teijeiro Breijo Evolution of Abu Dhabi data sources - progressing towards a register-based Census Aisha Turki, Badreyya Al Shehhi, Salah Qudairi, Walter Robb Changing census by combining administrative sources and sample surveys Fabio Crescenzi Discussant: Paolo Valente
IPSO29 Room: 202B	Panel Type Session Building an international community to modernize official statistics based on the Common Statistical Production Architecture Organiser: Vince Galvin Chair: Padraig Dalton Emanuele Baldacci Vincent Galvin Steven Vale Albert Kroese Gillian Nicoll Discussant: Lidia Bratanova
IPS068 Room: 201ABC	Advances in Monte Carlo methods for scientific and statistical computation Organiser: Zhiqiang Tan Chair: Minge Xie Optimally adjusted mixture sampling and locally weighted histogram analysis Zhiqiang Tan Establishing some order amongst exact approximation MCMCs Christophe Andrieu Parallel Markov Chain Monte Carlo Scott Schmidler, Douglas Vanderwerken A Markov Chain Monte Carlo Approach to Empirical Bayes Inference and Bayesian Sensitivity Analysis via Empirical Processes Hani Doss, Yeonhee Park
IPS076 Room: 210	Multilevel modelling in evaluation and large-scale assessments Organiser: Maria Ferrão Chair: Francisco Soares Evaluating the stability of the value-added scores obtained through a longitudinal multilevel IRT model Tufi Soares Multilevel Modelling Applied to the Evaluation of Research Centres Maria Ferrão Using Multiple Group Multilevel Latent Models for Cross-Country Comparisons: Empirical Application with PIRLS 2011 Data Agnes Stancel-Piatak Discussant: Henry Braun

IPS092 Room: 207	Statistical Genetics and Genomics: Challenges and Opportunities Organiser and Chair: Dungang Liu Quantile Analysis for human quantitive traits in GWAS data Ying Wei, Iuliana Ionita-Laza, Joan Reibman, Mengling Liu, Xiaoyu Song Statistical methods for analyzing x-chromosome data Sanjay Shete Imputation of truncated p-values for meta-analysis methods and its genomic application George Tseng The Screening and Ranking Algorithm for Change-Points Detection in Multiple Samples Heping Zhang, Chi Song, Xiaoyi Min Discussant: Dungang Liu
IPS120 Room: 202A	Spatial Statistics for natural hazard modeling Organisers: Jorge Mateu, Serge Guillas Chair: Serge Guillas Consistent kernel intensity estimation for inhomogenous point processes. Application to the analysis of wildfires registered in Galicia (NW Spain). Wenceslao Gonzalez-Manteiga, Isabel Fuentes-Santos, María Isabel Borrajo Hazard Analysis Using Data Reduction and Emulation Methods Abani Patra, E. Bruce Pitman, E. Ramona Stefanescu, Marcus I. Bursik Uncertainty Quantification and Visualization for 3D Tsunami Model Outputs Ying Sun, Serge Guillas, Thomas Theuss! Bayes linear uncertainty analysis for spatial hazards modelled by computer simulators Michael Goldstein, Nathan Huntley Uncertainties in Tsunami Simulations from Uncertain Bathymetry Serge Guillas, Xiaoyu Liu
STS007 Room: 204A	Agriculture and food security under climate change Organisers: Vyacheslav Lyubchich, Vladimir Afanasiev Chair: Vyacheslav Lyubchich Climate change and variability in designing stable markets of agricultural products Vladimir Afanasiev Hydric deficit and socioeconomic impacts on irrigated fruit production in Brazilian semiarid region Monica Pires, Abel São José Food security of Russia's population: with or without imports Irina Eliseeva Statistical Downscaling and the effect of the time-invariance assumption on growing season lengths, heat wave durations and other climate indices Carlos Gaitan Discussant: Lilia Leticia Ramirez Ramirez
STS023 Room: 208	Measuring human rights Organisers: Grace Steffan, Nicolas Fasel Chair: Pali Lehohla Statistics and Human Rights: A Long-standing Relationship. Existing Roads towards Human Rights Statistical Indicators Nicolas Fasel, Emma Reilly, Grace Sanico Steffan Human rights measurement in the Philippines Lisa Grace S. Bersales Statistics and Human Rights: The experience of the Statistics Office of Cabo Verde Antonio Duarte, Mariana Neves Making Data Rights-Aware: the Progressive Realization of a Human Rights Approach in the Brazilian National Statistical System Andrei Soares, Fernanda Reis Discussant: Jan Suesser

STS033 Room: 203A	Algebraic and geometric approaches to graphical models Organisers: Caroline Uhler, Sonja Petrovic Chair: Sonja Petrovic The Hyper-Beta Model for Hypergraphs: Modeling Group Interactions in Networks Stephen E. Fienberg Differentially Private Beta-model and synthetic graphs Aleksandra Slavkovic Maximum likelihood threshold of a graph Elizabeth Gross, Seth Sullivant Fixed Points of the EM Algorithm and Nonnegative Rank Boundaries Kaie Kubjas, Bernd Sturmfels, Elina Robeva Confining bipartite graphical models by simple classes of inequalities Guido Montúfar Algebraic and geometric approaches to graphical models Kayvan Sadeghi Generalizability in Causal Inference (out-of-sample policy forecasting) Elias Bareinboim
STS038 Room: 202C	Improving the ICP methodology in emerging economies Organiser: Xuguang Song Chair: Nan Zhang Methodological Issues in the ICP Theory and Data Use Qiang Xu Subnational price differences in large emerging Countries Yingchun Zhang Measuring the Industrialization Levels Using PPP Methods: A Global Perspective Menggen Chen Regional Characteristics and China inter-regional relative price level convergence Wang Lei The Construction of Complete Panels of Real per capita Income for Chinese Provinces Zhongshan Yang The Construction of Complete Panels of Real per capita Income for Chinese Provinces Yan Wang
STS075 Room: 203B	Information system of official statistics - main strengths and challenges Organiser and Chair: Eva Laczka Improving communication with users - Polish experience Renata Bielak Challenges of the transborder statistics within the information system of the official statistics Marek Cierpial-Wolan Changes in the compilation process and IT system of the Hungarian financial accounts Bela Simon Challenges posed by globalisation: the case for future changes in the System of National Accounts Peter Van De Ven Discussant: Janusz Witkowksi

STS080 Room: 203C	Advances in Small Area Estimation that Address Non-Standard Problems Organiser: Jan Pablo Burgard Chair: Ralf Münnich A Finite Mixture Fay-Herriot Model for the Estimation of Regional Rental Prices Jan Burgard, Charlotte Articus Small Area Prediction for Discrete Data Under Spatial Nonstationary Model Hukum Chandra, Nicola Salvati, Ray Chambers Small area estimation by calibration methods Risto Lehtonen A Robust ELL Methodology for Poverty Mapping Sumonkanti Das, Ray Chambers Smoothing, Clustering, and Benchmarking for Small Area Estimation Rebecca C. Steorts
STS092 Room: 204B	Migration statistics and historical change in migration. Why and how global and local statistical evidence should be combined concerning historical change in international migration? Organiser: Altila Melegh Chair: Alinne Veiga Estimates of Global Bilateral Migration Flows by Gender Between 1960 and 2010 Guy Abel Migration patterns and historical development in Southeastern Europe since 1950 Attila Melegh Migration to and from South-Eastern Europe: A demographic Overview Heinz Fassmann Measurement of the absentees: a pilot survey to examine the emigrants Zsuzsa Blaskó
OR-A03 Room: 204C	Applications 3 Spatial Modeling of Disparity in Economic Activity and Unemployment in Southern and Oromia Regional States of Ethiopia Berisha Gelebo, Ayele Taye A Markov-switching approach for investigating stock market dynamics Luca de Angelis, Attilio Gardini, Giuseppe Cavaliere, Michele Costa Text Data Mining in a Geospatial Metadata Catalog Fatima Santos The Distributional Impacts of Large School Size on Learning Outcomes in Senegal Oswald Koussihouede A graphical overview of social inequality in South Africa Tsiresy Bernard Geo-Additive Modelling of Family Size in Nigeria Oluwayemisi Alaba, J. O. Olaomi Link Between the Default Rate and the Economic System Lao Kenao, Mahamadou Tankari, Mawulom Agudze

31 July 2015, Friday 10:30-12:30

OR-B02 Room: 208	Methods and Theory 2 Upper bounds for the relative entropy of the squared norm of a Gaussian projection onto a convex cone Ivan Nourdin Moment Determinacy of Products of Non-identically Distributed Random Variables Gwo Dong Lin, Jordan Stoyanov Exponential stopping of jump-diffusion processes and applications Hailiang Yang Data-dependent parameter choice for a conditional kernel density estimate Ann-Kathrin Bott, Michael Kohler Hyperspectral Unmixing with Spatial Dependence Chia Chye Yee, Yves Atchade Co-integration Rank and the Lag Order Determination in Heteroskedastic VAR Models Giuseppe Cavaliere, A. M. Robert Taylor, Anders Rahbek, Luca de Angelis The Multivariate Saddlepoint Approximation To The Distribution Of Estimators: A General Approach Juan Carlos Abril, Carlos Ismael Martinez, Maria de las Mercedes Abril
OR-G01 Room: 211	Survey Statistics 1 Analysis of Survey Data under Informative Sampling Design and Nonignorable Nonresponse Mechanism Abdulhakeem Eideh A generalized exponential growth model under adaptive cluster sampling Kelly Cristina Gonçalves, Fernando Moura A Design-Based Approach for Multivariate Hypothesis Testing in Complex Surveys Leonardo Trujillo, Guillermo Martinez, Mario Pacheco, Stalyn Guerrero Estimation of the distribution of income from survey data, adjusting for compatibility with other sources. Victor Bustos de la Tijera Tail Index Estimation Based on Survey Data Bertail Patrice A heteroskedastic model for estimating house effect from Italian preelectoral poll data Nicola Torelli, Domenico de Stefano

IPS040 Room: 210	Panel Type Session Ethics in teaching and practicing statistics: Learning from real-life ethical dilemmas Organisers: Shelley Hurwitz, Lawrence Cox Chair: Shelley Hurwitz Katherine Halvorsen Jeffrey Dawson Rochelle Tractenberg Martin Bland
IPS052 Room: 202A	Using remote sensing for agricultural statistics Organiser and Chair: Elisabetta Carfagna Remote sensing for Agricultural Statistics: Perspectives with new sensors Raul Lopez-Lozano, Javier Gallego Operational Remote Sensing Program Requirements Jeffrey Bailey, Rick Mueller Advances in the use of remote sensing in Land Use/Land Cover Surveys Roberto Benedetti, Federica Piersimoni, Paolo Postiglione, Simona Andreano
IPS058 Room: 201ABC	Recent Advances in Statistical Engineering Organiser: Roger Hoerl Chair: Maysa de Magalhães A Statistical Engineering Approach to Big Data Projects Roger Hoerl Improving the Use of Experiments within Six Sigma Jock Mackay, Stefan Steiner
IPS078 Room: 202B	Big Data and official statistics - the Challenge of Big Data on National Statistical Systems Organiser: Chellam Palanyandy Chair: Oliver Chinganya Big Data Applications for Official Statistics: Methodologies and Challenges Leslie Tang Challenges of using Big Data for Official Statistics Ronald Jansen, Ivo Havinga, Shaswat Sapkota Big Data and the Modernization of Statistical Systems in Developing Countries Olivier Dupriez, Grant Cameron Discussant: Haishan Fu
IPS080 Room: 203B	Model-Based Clustering and Classification Organisers: Maurizio Vichi, Christian Hennig Chair: Christian Hennig Challenges in Classification and Regression in the Era of Big Data Maurizio Vichi Model-Based Clustering of Single and Multiple Samples Geoffrey Mclachlan, Sharon Lee Model-based Co-clustering Mohamed Nadif
IPS106 Room: 207	IASS Journal Invited Paper Session Organiser and Chair: Danny Pfeffermann AIC and BIC for Modelling with Complex Survey Data Alastair Scott, Thomas Lumley Design-based analysis of factorial designs embedded in probability samples Jan Van Den Brakel Discussant: Chris Skinner

31 July 2015, Friday 14:00-15:40

150440	
IPS112 Room: 205	IBS Session: Diversity in Biometry Organiser and Chair: John Hinde Safety Monitoring and Evaluation in Late Phase Clinical Development Jose Pinheiro Ecological applications of hidden Markov models and related doubly stochastic processes Roland Langrock Making optimum design of experiments more useful in practice Luzia Trinca, Marcelo Da Silva, Steven Gilmour Discussant: John Bailer
IPS125 Room: 202C	Statistical Machine Learning Methods for Analysis of "Omics" Data Organiser: Ali Shojaie Chair: Genevera Allen A Hierarchical Statistical Model based on Latent Genotypes for Genome- Wide Association Studies Luis Carvalho, Ian Johnston Graph theoretic definition of cell types in high-dimensional single cell data Manfred Claassen, Laura Roditi, Will Macnair Discussant: Saharon Rosset
IPS133 Room: 203A	Reflections on the Green Growth Index for developing countries Organiser: George Kararach Chair: Oliver Chinganya Reflections on the Green Growth Index for developing countries George Kararach, Godwell Nhamo, Maurice Mubila, Suresh Babu Reflections on the Green Growth Index for developing countries Maurice Mubila, Godwell Nhamo, Maurice Mubila, Suresh Babu Reflections on the Green Growth Index for developing countries Godwell Nhamo, Maurice Mubila, Suresh Babu Discussant: Frannie Léautier
STS011 Room: 203C	Recent theories and applications on semiparametric and nonparametric statistical inference Organisers: Taguri Masaaki, Jinfang Wang Chair: Xiaoling Dou Comparison of block bootstrap testing methods of mean difference for longitudinal data Hirohito Sakurai, Masaaki Taguri Model selection and goodness-of-fit on models for causal inference Masataka Taguri Nonparametric confidence intervals for sensitivity and specificity from multiple raters Hiroyuki Saeki, Jinfang Wang, Toshiro Tango
STS016 Room: 204A	Statistical inference for Levy-driven models Organiser and Chair: Hiroki Masuda Least squares for stochastic differential equations driven by small Levy noises Hongwei Long, Chunhua Ma, Yasutaka Shimizu Efficient estimation of integrated volatility in presence of infinite variation jumps Jean Jacod Quadratic covariation estimation of an irregularly observed semimartingale with jumps and noise Yuta Koike

STS062 Room: 208	Statistical Modeling of multi-level multivariate data using Kronecker product structured covariance matrices Organiser: Anuradha Roy Chair: Ashis Sengupta Bayesian computational strategies for multivariate t linear mixed models with missing outcomes Tsung-I Lin, Wan-Lun Wang Approximate methods for maximum likelihood estimation of multivariate nonlinear mixed-effects models Wan-Lun Wang Hypothesis testing in structured models using Kronecker products for variance components with constrains Miguel Fonseca Developing near-exact distributions for likelihood ratio statistics to test for Kronecker product structures in covariance matrices Carlos Coelho, Anuradha Roy
STS079 Room: 204B	National Statistical Systems between controversies and translations Organiser and Chair: Jean-Pierre Beaud Silences and controversies on early Brazilian censuses (1872-1900): from expected regularities to the politics of precision. Alexandre Camargo From primary data producer to derived statistics and beyond: the experience of the Brazilian Statistical Office in a changing world Carmem Feijo, Elvio Valente, Paulo De Carvalho Statistical and public controversies in today's world. Jean-Pierre Beaud Discussant: Emmanoel Boff
STS083 Room: 204C	Transborder statistics - a new domain of official statistics in globalized, opened market driven economy: theoretical foundations, methodological backgrounds, practical experiences Organisers: Jozef Olenski, Vasilliy M. Simchera Chair: Guy Abel Typology of transborder economies and the need of transborder statistics in globalized world Jozef Olenski Well-being in transborder areas and in regional accounts - examples from Poland and Ukraine Marek Cierpial -Wolan Afghanistan-Pakistan Trans-border Economic Activities and its Challenges Hasibullah Mowahed Correlation of quantitative and qualitative evaluation methods of modern transborder processes Serhii Ustich From separate statistics of transborder economics relations to the international standards of modern statistics for foreign trade: experience in the cross analysis and problems in system integration Vasilyi Simchera Discussant: Misha Belkindas
STSO93 Room: 211	Official statistics: process improvement and support to policy development and evaluation Organiser: Pedro Silva Chair: Abubaker Al Gifri Enhancing statistic production and operational efficiency through alignment of SOPs to GSBPM - SCAD's Case Khaled Al Hashmi Developments in Income Disparity Measures in Hong Kong Agnes Lo Statistics Help Decision Making Wanda Yue

31 July 2015, Friday 14:00-15:40

OR-A09 Room: 209	Applications 9 Determinants of Malnutrition among Under-Five Children in Nakaseke and Nakasongola Districts, Uganda Gilbert Habaasa Do economic conditions support the public finances in Morocco? Amal Mansouri, Lina Tazi School holidays in Morocco: Evaluation of an atypical calendar effect with seasonal adjustment approach Ali Elguellab, Abderrahim Mirhouar Gender Wage Gap in Morocco: is there any evidence for discrimination? Mustapha Ziroili, Abdelkader Teto, Jamal Guennouni, Mustapha Ziroili Decent work in Morocco, what progress and what challenges? Jamal Guennouni, Mustapha Ziroili A Model of Economic Indicators' Influence on Banks' Capital Structure: Evidence from South Africa Thembalihle Ndlovu
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Lunch Roundtable Discussions

A lunch roundtable discussion is an opportunity to enjoy food, fellowship and a conversation with colleagues about a statistical concept or related topic in practice while having lunch. This activity also provides a great chance to interact and to network with your colleagues.

Lunch will be available for all registered attendees. Tickets for these events were purchased during registration for the WSC.

The following is a list of the Lunch Roundtable Discussion (LRTD) topics and their leaders.

Number	Date	Title	Discussion Leader
LRTD01	Monday, 27	Statistical Sciences in the Era of Big Data	Paulo Rodrigues, David Banks
LRTD02	Monday, 27	What Statistics says about how the peoples in rural areas in the middle of Amazonia's heart live (Pará and Amazonas States)	Wellington Pereira
LRTD03	Monday, 27	Urban/rural classifications - can we do better?	Peter Wingfield- Digby
LRTD04	Monday, 27	How young statisticians associations help in raising statistical awareness, empowering and qualifying young statisticians to lead the statistical work in the future	Mahmoud ElSarawy
LRTD05	Monday, 27	Assessment Methodology for Rare and Endangered Plant/Animal Species and its Improvement	Girish Chandra
LRTD06	Tuesday, 28	Statistics, Machine Learning & Big Data	Genevera Allen
LRTD07	Tuesday, 28	IAOS2016 conference entitled "The Spirit of Official Statistics: Partnership and Continuous Innovation"	Ola Awad/ Shakhshir
LRTD08	Tuesday, 28	Statistics from gender perspective for overall development and wellbeing	Sheela Misra
LRTD09	Tuesday, 28	What do we do about the 'literacy' in statistical literacy, at the college level?	Iddo Gal
LRTD10	Wednesday, 29	Bayes and Big Data	Steven Scott
LRTD11	Wednesday, 29	Communication strategies for statistical information: A common interest of national and international producers of statistics	Matthias Rumpf, Per Nymand- Andersen
LRTD12	Wednesday, 29	Statistical National System, public programs management and statistical production based on administrative registers. Yucatán study case.	
LRTD13	Wednesday, 29	Good practices in teaching statistics Pavlina Jord	
LRTD14	Thursday, 30	The Role of Statistics in the Big Data Era of Genomic and Epigenomic Research	Shili Lin

Number	Date	Title	Discussion Leader
LRTD15	Thursday, 30	Agriculture Data Collection and Use: How to benefit farmers?	Chanchal Pramanik
LRTD16	Thursday, 30	National Statistical Offices' productivity	Alejandro Medina Giopp
LRTD17	Thursday, 30	Building Partnership between Statistical Consultants and Industries	Adetoun Imolehin
LRTD18	Friday, 31	Judiciary intrusions in the production of official statistics	Jean-Louis Bodin
LRTD19	Friday, 31	Preparing students for the workforce: constructing and implementing meaningful data practicum capstone experiences for students	John Bailer

Short Courses

The following short courses have been arranged by the ISI and its Associations, with the support of IBGE, during 23-25 July 2015.

Date	Title	Instructor(s)
Thurs. 23 - Fri. 24	Introduction to Survey Sampling	Colm O'Muircheartaigh & Steven Heeringa
Thurs. 23 - Fri. 24	Advanced Topics in Survey Sampling	Jae-kwang Kim, Wayne A. Fuller & Pushpal Mukhopadhyay
Thurs. 23 - Fri. 24	Price and Volume Indices in Official Statistics	Jens Mehrhoff
Thurs. 23 - Fri. 24	Introduction to Structural Equation Modeling	Albert Satorra & Joan Carles Bou
Fri. 24	Designing Effective Web Surveys	Mick Couper
Fri. 24	Modern Time Series Methodology for Modeling, Surveillance and Forecasting of Environ-mentally-driven Infections	Elena Naumova
Fri. 24 - Sat. 25	. 24 - Sat. 25 Small-area estimation methods with applications Partha Lahiri	
Fri. 24 - Sat. 25	Editing and Imputation of Survey Data Wesley Young & David Haziza	
Fri. 24	Data Anonymization: Balancing Data Confidentiality and Data Quality	Lawrence Cox
Sat. 25	Total Survey Error: Concepts and Practice	Paul Biemer
Sat. 25	Parallel Programming with Big Data in R	George Ostrouchov
Sat. 25	Modern Bayesian Econometrics Hedibert Lopes	
Sat. 25	at. 25 New advances in the modeling of count data New advances in the modeling of count data	
Sat. 25	Data Mining, Machine Learning, and Business Analytics	David Banks

Satellite Meetings

Title	Responsible	Date	Venue
Advances in statistics education: developments, experiences, and assessments	IASE	22-24 July	Rio de Janeiro, Brazil
Quality Control and Improvement	ISBIS	22-24 July	Campinas, Brazil
Statistical Computing for Data Science	IASC	2-4 August	Búzios, Brazil
Small Area Estimation - SAE2015	IASS	3-5 August	Santiago, Chile

Special Event on "The Data Revolution for Sustainable Development: How to make it happen?"

Sunday 26 July 2015, Room 205 - 09.30 - 12.30 hrs

The UN Secretary-General established an Independent Expert Advisory Group (IEAG) in 2014 to develop recommendations on how to bring about a `Data Revolution for Sustainable Development'. The Group's report A World That Counts, published in November 2014, described the framework for a data revolution, developed a set of key recommendations, and made an urgent call for action by the international community. Since then, many initiatives have been launched to implement the recommendations in the report.

The goal of this event is to provide a brief background, examine the role of various communities, describe how different groups are beginning to address the challenges, and seek input from participants during the discussion and break-out sessions.

Chair:

Haishan Fu (Director of the Data Group, World Bank)

Introductory Comments (plenary):

- Enrico Giovannini (Co-Chair of the UN Advisory Group)
- Vijay Nair (ISI President)
- Ronald Jansen (Assistant Director, UN Statistics Division)
- Grant Cameron (Data Group, World Bank)

Initiatives by Different Groups and Regions (plenary):

- Mariana Kotzeva (Deputy Director-General, Eurostat)
- Lidia Bratanova (Director, UNECE Statistics Division)
- Pali Lehola (Statistician General, South Africa)
- Eduardo Soho (President of INEGI, Mexico)
- Misha Belkindas (Managing Director, Open Data Watch)

Break-out Sessions

Report from Break-out Sessions (plenary)

Discussion and Conclusions by the Chair (plenary)

Participation is open to all registered WSC participants. No prior registration necessary.

Opening Ceremony and Welcome Reception

All participants are invited to join the Opening Ceremony of the 60th ISI WSC, which will be held at Copacabana Room (Room 101) of Pavilion 5, on 26 July 2015 at 16:00.

A Welcome Cocktail Reception will be held immediately after the Opening Ceremony.

Performances:

- IBGE choir IBGE staff will present a mix of classical and popular songs.
- **Grupo Baqueta** percussion group formed by carnival musicians with a varied repertoire which includes samba, axé, and other Brazilian popular music.

Closing Ceremony

The Closing Ceremony will be held at Room 201ABC of Pavilion 5, on 31 July 2015 at 16:45. Participants are invited to witness the successful conclusion of the 60th ISI WSC. The High Commission for Planning of Morocco, the organiser of the 61st ISI WSC, will also extend its warm invitation to all participants for joining the next WSC to be hosted in Marrakesh, Morocco.

Performances:

• Moroccan Performance - fusion of Brazilian and Morrocan Gnawa music.

Farewell Dinner

The Farewell Dinner on 31 July 2015 is a joyous and unforgettable occasion for all. The dinner will be held at the Plenary Hall on level 1 of Pavilion 5 at 20:30. Typical Brazilian food will be served with fine wines, while delightful cultural performances will be staged. This event is surely a highlight of the 60th ISI WSC, offering great opportunities for all delegates to network and bid farewell to each other before meeting again in the next WSC.

Performances:

• Escola de Samba Acadêmicos do Cubango - traditional Brazilian 'samba school', which will perform Carnival-like samba, with dance and display of the colourful carnival costumes.

Optional Social Programme

Rio by Night

The Rio by Night is an evening of great excitement and entertainment for all. This evening will offer a unique opportunity for all participants to experience a typical Brazilian party, with live music, excellent food and a unique opportunity to enjoy Brazilian culture first-hand. The event will be held at Nailia, in the Barra da Tijuca region, on 28 July 2015 at 19:00.

SOCIAL PROGRAMME

Shuttle buses will be available to take participants from the Conference venue to Rio by Night and from there to the designated hotels.

Performances:

• Banda Anjos da Noite – lively band that animates Brazilian style parties in Rio de Janeiro and beyond, with a repertoire that will leave no one out of the dancing floor.

Tours

Blumar, the designated travel agency for 60th ISI WSC, offers sightseeing tours for participants and accompanying persons. Details can be found at www. eventos.blumar.com.br/isi2015 or by phone: 2142-9300 or in the Blumar desk at the ground floor of the Congress Venue.

Bookings can still be made in the Blumar desk at the ground floor of the Congress Venue.

Tour	Price per person	Duration	Availability
One day in Rio	from R\$ 414	9 hours	Daily
Jeep Tour Corcovado + Sugar Loaf	R\$ 370	6 hours	Daily
Jeep Tour Tijuca Forest	R\$ 140		Daily
Sugar Loaf	from R\$ 209		Daily
Corcovado	from R\$ 191	4 hours	Daily
Half day historical tour of Rio	from R\$ 183		Tuesday-Friday
Rio Nightlife Tour	from R\$ 280		Tuesday-Sunday

Post-conference tours

Blumar also organises the following post-conference tours in Brazil for participants of the 60th ISI WSC.

Destination	Nights	Price
Salvador, Bahia		from R\$ 2,489
Buzios		from R\$ 1,920
Paraty	2	from R\$ 2,338
Angra dos Reis		from R\$ 3,411
Iguaçu Falls		from R\$ 2,982
Pantanal		from R\$ 3,043
Manaus, Amazonas	3	from R\$ 3,820

Participation in Social Programme

All WSC delegates and their accompanying persons are welcome to join the Opening Ceremony and Welcome Cocktail Reception. No admission ticket is required.

Participants who booked for the Rio by Night will find the admission tickets in the delegate's bag. Please remember to bring along the admission ticket for attending the function.

Participants will find the admission ticket for the Farewell Dinner in the delegate's bag. Please remember to bring along the admission ticket for attending the Dinner

Participation in Scientific Programme

It is a good practice to refer to the Daily News bulletin for any last-minute changes before attending a session.

There are programme boards at the screens located outside each of the meeting rooms.

No one will be allowed to enter the Congress area without a badge. Please ensure that you carry your badge visible on you at all times after you check in to the Congress.

The opening hours of the registration counters are as follows:

26 July (Sunday) 09:00 - 16:30 27 July (Monday) 07:30 - 17:40 28-31 July (Tuesday - Friday) 08:30 - 17:40

Participation at the Lunch Roundtable Discussions is limited to those who registered. If you registered simply turn up for those LRTD that you have registered for. Lists with names of those registered for each LRTD are available on the website

Computer, printing and photocopying services

Computer terminals with Internet connection and printers are available at the Cyber Centre in the veranda area of level 2 of Pavilion 5.

Free wireless Internet connection is available throughout Riocentro. New login may be required after prolonged use.

For large volume printing/photocopying service, participants may utilize services available at the Speakers Room.

Message board

In case participants need to drop others some messages, they may use the designated board near the registration area at the ground floor of Pavilion 5.

Certificates of attendance

Certificates of attendance can be obtained at a designated counter at the registration area from Tuesday 28 July onwards.

Comfort breaks

Breaks are scheduled during 10:10 - 10:30 and 15:40 - 16:00 on 27 - 31 July (Monday through Friday). Complimentary coffee/tea corners will be arranged daily in both levels of Pavilion 5.

General inquiries

An information desk is set up just opposite the registration area in ground floor of Pavilion 5. Please use this service to seek information and assistance throughout the whole Congress period. A notice board is placed in the registration area for displaying important notices.

Banking services

There are automatic teller machines (ATMs) inside Riocentro, in the food court area.

First aid

Please contact the information desk at the registration area for assistance. There is a medical team on stand by for any emergencies, and this can be reached at room 106.

Dining | Food court

Food kiosks selling snacks and light meals, as well as a restaurant are available at the Food Court, located on the veranda area between Pavilions 5 and 3. The opening hours of the food kiosks and restaurant are as follows: 12:00 – 15:00.

Smoke-free policy

Smoking is prohibited in all areas inside Riocentro.

Accessibility

Riocentro offers a full range of amenities to assist those with disabilities.

Spacious guest lifts readily accommodate wheelchairs, and all entrances are ramped. The Centre's car parks provide bays reserved for drivers with disabilities.

Local information

Time zone

In July, the time in Rio is Brasília Time (BRT), which is 3 hours behind Greenwich Mean Time (GMT-3).

Climate

The city of Rio de Janeiro is located just north of the Tropic of Capricorn, giving it a humid tropical climate. The month of July is characterized by essentially constant daily highs around 27°C (80°F) throughout the month. Daily low temperatures are around 17°C (63°F).

Suggested attire

Dressing codes are mostly informal in Rio de Janeiro.

Getting around Rio

Rio de Janeiro has a good public transportation network. Rio's subway system runs from 5am to midnight, Monday to Saturday, and from 7am to 11pm on Sundays and public holidays. Most bus service lines operate around the clock, but waiting intervals can be longer during the night hours.

Regular taxis are yellow and operate on a meter, which starts at R\$ 5,20. Rate 1 runs from Monday to Saturday, from 6am to 9pm. Other than that, taxis operate on the higher Rate 2.

GENERAL INFORMATION

Useful Websites

60th ISI WSC: www.isi2015.org

Brazilian Institute of Geography and Statistics (IBGE): www.ibge.gov.br

ISI: www.isi-web.org

Twitter: https://twitter.com/IntStat Facebook: on.fb.me/13vnQC6

Riocentro: www.riocentro.com.br

Tourist information

Visit Brasil www.visitbrasil.com

TurisRio (Rio de Janeiro State Tourism Board) 2334-6153 / 2334-6158 www.turisrio.rj.gov.br

Riotur (Rio de Janeiro Municipal Tourism Board) 2271-7000 www.rioguiaoficial.com.br

Special Tourism Police Station 2332-2924

Tourist Information Office 1746

Supporting Organisations and Major Sponsors

Support for ISI side events/meetings/seminars and overseas participants in joining the 60th ISI WSC

Sponsor		Type of Sponsorship
World Bank TFSCB	Trust Fund f ^{or} Statistical Capacity Building	Participants from developing countries selected by ISI Participants of short courses Participants of satellites
European Free Trade Organization	EFTA	Short course programme Young participants from South and Latin America for short course programme
American Statistical Association	Promoting the Practice and Profession of Statistics®	Participation of Brazilian students
Wiley Blackwell Publishers	WILEY	ISI/RSS Publications Workshop Young Statisticians Mixer ISI Member Reception
Elsevier Publishers	ELSEVIER	Winner of Karl Pearson Prize
Indian Government, Ministry of Statistics and Government Planning		Mahalanobis Award in Statistics
Statistics South Africa	Statistics South Africa The South Africa I know, the home I understand	African participants
Esri Gold Sponsor	@esri	Esri* helps organizations map and model our world. Esri's GIS technology enables them to effectively analyze and manage their geographic information and make better decisions. They are supported by an experienced and knowledgeable staff and an extensive network of business partners and international distributors. Every year, Esri reinvests more than 20 percent of its revenues in research and development to ensure users have the best tools possible to accomplish their missions. A comprehensive suite of training options helps them fully leverage their GIS. Esri actively supports organizations involved in education, conservation, sustainable development, and humanitarian affairs by donating hundreds of millions of dollars in software, training, consulting, and project support.

Exhibition

An exhibition, covering a variety of products and services related to the statistics profession, is being held in conjunction with the 60th ISI WSC, providing exhibitors the chance to interact with their target customers.

The exhibition takes place at the hall of Pavilion 5 in Riocentro, between the plenary and the main entrance.

Exhibitors

Booth	Company	Description
G1 1-2	المندوية السامة للتخطيط HAUT-COMMISSARIAT AU PLAN	High Commission for Planning CHCP/PCO Marrocos The High Commission for Planning (HCP) is a ministerial structure that has a statute of an administration of mission, under the authority of the High Commissioner for Planning with a ministerial rank. The HCP is independent in establishing its programs and in conducting statistical surveys and studies. The HCP is the key responsible for the collection, compilation, dissemination and analysis of official statistics. It also conducts economic, social demographic studies in order to assess the impact of socioeconomic policies in Morocco. The HCP elaborates also economic forecasts, and conducts prospective studies for a long run horizon. The HCP incorporates an Observatory of households living conditions and a Research Center for Demographic Studies. The HCP's academic pole includes the High School of Information Sciences and the National Institute of Statistics and Applied Economics that completed it 55 years of existence in 2015. The HCP has the mission of coordinating the National Statistical System, fostering its development through a continual harmonization with international standards and establishing partnerships in statistics with national, regional and international institutions. For more information, please visit HCP's website http://www.hcp.ma/
3 - 4	5	The ISI is a truly international association, bringing together and connecting all those whose work and interests involve statistics from all types of workplaces and from all over the world. All members of the ISI family share the recognition of the value of statistics for the development of society. The ISI Mission is to promote the understanding, development and good practice of statistics worldwide. Visit the ISI booth and find out more about us. Join the ISI to engage with this vibrant community in fulfilling its mission.

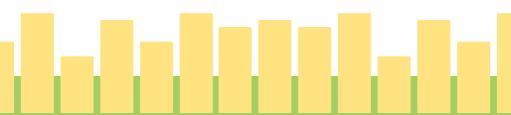
Booth	Company	Description
5	Minitab > °	Minitab 17 gives you the confidence you need to improve quality, with features like an interactive Assistant that guides you through your analysis. We specifically designed it to help you succeed at every step of your analysis. www.minitab.com
6	OXFORD UNIVERSITY PRESS	Oxford University Press is a publisher of some of most respected and prestigious books and journals in the world. Visit our stand (#6) to browse books and to pick up sample copies of our journals, or visit online at www.oup.com for more information.
7	IPUMS International	IPUMS - International is a global partnership of national statistical offices, international organizations and university researchers. Our goals are to preserve, harmonize, and disseminate confidentialized census data and documentation to qualified researchers world-wide, free of charge. With the June 2015 data release, the database will deliver data from 82 countries and 277 census samples with over 610 million person records available. Included in these totals, are microdata samples from the 2010-round of census taking for 41 countries. The data are also available for classroom use, with an option for instructors to register their class. Students then use the class code when applying for access to the data. The IPUMS-International project is housed at the Minnesota Population Center, University of Minnesota.
8		Springer Science+Business Media is a leading global scientific, technical and medical publisher, providing researchers in academia, scientific institutions and corporate R&D departments with quality content via innovative information products and services. Springer published roughly 2,400 English-language journals and more than 9,000 new books in 2014, and the group is home to the world's largest STM eBook collection, as well as the most comprehensive portfolio of open access journals. www.springer.com/statistics
9	فــرکــز الإحــصــاء STATISTICS CENTRE	Established in 2009 as an autonomous government body, Statistics Centre - Abu Dhabi (SCAD) is the authority responsible for the collection of statistical data related to demographics, economics, labor, social services, environment and culture for the production of official statistics on Abu Dhabi Emirate in accordance with international standards and methodologies. www.scad.ae/en

Booth	Company	Description
10 - 11	unicef	UNICEF, the United Nations Children's Fund, has been the lead UN agency responsible for the global monitoring of the child-related Millennium Development Goals (MDGs). As the world moves towards a post-2015 development agenda — the Sustainable Development Goals (SDGs) — and talks about a data revolution, UNICEF seeks to ensure that the implementation of the SDGs will improve the lives of the most disadvantaged, marginalized, and vulnerable children around the world. UNICEF has been supporting countries for the last 20 years to collect and analyse data to monitor progress through the Multiple Indicator Cluster Surveys (MICS) programme (visit mics.unicef.org). It also develops new methodologies for tracking estimates in priority issues, maintains and updates several global databases on key indicators that can be found on data.unicef.org
13	SPACE TIME RESEARCH	At Space-Time Research we develop software tools and solutions for data analysis, visualisation and dissemination. Our mission is to change the way people explore, build and share information, by making the process simple, secure and rich in meaningful insights. Our software is used by many of the world's leading government agencies, statistical organisations and commercial enterprises. It is built from the ground up for easy, ad hoc self-service data analysis, and contains a wealth of features that enable anyone to explore data, creating and sharing an impressive range of visualisations with ease, all without the need for coding or programming. Our tools include sophisticated confidentiality methods that protect private or identifying information on-the-fly, as well as advanced statistical functions and survey support that makes it possible to research, understand and share results, whether specific business research or huge census data volumes.
16	الورك ز الإد صائي نفره معلمة الانمان العلم العل	The Statistical Centre for the Cooperation Council for the Arab Countries of the Gulf ("GCC-Stat") was established in June 2011 to provide a common official pool of statistics and data for the member states of the Cooperation Council for the Arab Countries of the Gulf (short form is Gulf Cooperation Council or "GCC"). The establishment of GCC Stat was approved by the GCC Ministerial Council in September 2011. The Charter was officially endorsed in December 2012 by the GCC Supreme Council (comprised of heads of member states: United Arab Emirates, Kingdom of Bahrain, Kingdom of Saudi Arabia, Sultanate of Oman, State of Qatar and State of Kuwait).

Booth	Company	Description
17	WILEY	Wiley publishes a vast array of text, journal and digital content in statistics. We are the publishing partner of leading statistical societies. Visit our booth to browse our titles and to discuss publishing with us. See our latest website for all users of statistics at www.StatisticsViews.com
18	Taylor & Francis Group	Taylor & Francis boasts a growing and high calibre journals portfolio in mathematics and statistics. The mathematics portfolio includes long-standing titles such as Communications in Algebra, Communications in Partial Differential Equations and International Journal of Mathematical Education in Science and Technology, alongside innovative new journals such as Journal of Mathematics and Music. Within our statistics portfolio, we are proud to publish the journals of the American Statistical Association on their behalf.
19	Moroccan National Tourist Office (ONMT) MARROCOS	The Moroccan National Tourist Office aims to adopt an expert marketing approach to achieve the objectives set in the context of the 2010 vision. By ensuring Morocco's strong positioning as a destination, our operations have positive results for society, the preservation of our cultural and environmental heritage and our country's economy. www.visitmorocco.com
22	Southampton	Social statisticians develop and use the analytical tools that are vital in a thorough understanding of the social sciences. We work closely with economists and social policymakers, both within the University and beyond, on key issues facing society today. Our activities are focused on the demographic issues surrounding health and wellbeing, sample survey theory and methods, and statistical modelling. Much of our work has an international perspective, as we collaborate with government and agencies around the world. We offer an undergraduate degree, BSc Population and Geography, along with several postgraduate taught and research programmes. We also welcome enquiries from people interested in studying with us at PhD level.
23	ROYAL STATISTICAL SOCIETY DATA EVIDENCE DECISIONS	The Royal Statistical Society was founded in 1834 and is one of the world's leading organisations promoting the importance of statistics and data. The Society is a professional body for all statisticians and data analysts – wherever they may live - with more than 6,000 members across the world. www.rss.org.uk

SPONSORS AND EXHIBITORS

Booth	Company	Description
24	ELSEVIER	Elsevier publishes world-class statistics content, from journals and books to online solutions. Visit booth #24 to discover how our innovations can enrich your content and give you maximum impact! www.elsevier.com
G3 G5	Instituto Brasileiro de Geografia e Estatística	The Brazilian Institute of Geography and Statistics (IBGE) is the main provider of data and information for Brazil, and serves the demands of the civil society, as well as of governmental institutions at federal, state and municipal levels. Our mission is: "To portrait Brazil by providing the information required to the understanding of its reality and the exercise of citizenship." www.ibge.gov.br



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