

<p>IPS002 Room :</p>	<p>ISI invited session with Statistical Societies Presidents - RSS and ASA Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> Statistics: a front-line weapon in the fight against ?alternative facts? <i>David Spiegelhalter</i> The State of the Statistics Profession: It Was the Best of Times, It is the Best of Times <i>Barry Nussbaum</i></p>
<p>IPS124 Room :</p>	<p>Selected papers from Stat: The ISI's Journal for the Rapid Dissemination of Statistics Research Organiser(s): <i>Marc Genton</i> Chair(s): <i>Ying Sun</i> A data-driven approach to conditional screening of high-dimensional variables <i>Xuming He</i> Multivariate spatio-temporal survey fusion with application to the American Community Survey and Local Area Unemployment Statistics <i>Jonathan Bradley</i> Visuanimation in Statistics <i>Marc Genton</i></p>
<p>IPS127 Room :</p>	<p>IASC President's Lecture Organiser(s): <i>Patrick Groenen</i> Chair(s): <i>Patrick Groenen</i> Statistical Learning with Big Data <i>Trevor Hastie</i></p>
<p>IPS132 Room :</p>	<p>Bernoulli Society Presidential Invited Lecture Organiser(s): <i>Sara Van Der Geer</i> Chair(s): <i>Sara Van Der Geer</i> Statistical Tools for Reproducible Selections <i>Emmanuel Candès</i></p>
<p>IPS150 Room :</p>	<p>TIES President's Panel session Towards a sustainable environment the challenge of persuading a sceptical audience of the important impacts predicted from scientific research Organiser(s): <i>Ron Smith</i> Chair(s): <i>Richard Chandler</i> Discussant(s): <i>Kerrie Mengersen, Lelys Bravo De Guenni, Peter Challenor</i></p>

PO-A07 Room : A. 0.20	<p>Applications 07</p> <p>Applications of association rule mining between microbiome and cosmetic clinical signs <i>Hicham Noçairi</i></p> <p>Convergence of a Continuous-Time Epidemic Model <i>Abdellah Ouldckhal</i></p> <p>Explore the Pattern of Posing Expenses on Food in Households of Tehran city of Iran, Implementing Beta Regression Model <i>Lida Kalhori</i></p> <p>False discovery rate control in association mapping under genetically structured populations <i>Monica Balzarini</i></p> <p>Foreign Direct Investment and Economic Growth in Morocco : An Empirical Analysis <i>Chakib Abidi</i></p> <p>Generalized Partially Linear Spatial Probit Model <i>Mohamed-Salem Ahmed</i></p> <p>Leveraging the Power of High Performance Computing for Surface Area Calculations of Massive Land Cover Data in China(double,Feb,25,2017) <i>Chun Dong</i></p> <p>Measuring Violence Against Children in Egyptian Society <i>Haidy Mahmoud</i></p> <p>Multivariate techniques applied to analyze the association between the Z-scan method and metabolic biomarkers <i>Elisete Aubin</i></p> <p>On statistical capacity development in Africa: a functional data analysis approach <i>Banawe Anissa</i></p> <p>Optimal Inflation for the Gambia: An ARDL Approach <i>Chioma Nwosu</i></p> <p>Prediction of dengue cases using SARIMA models. <i>Aline Medeiros</i></p> <p>Real situations on clinical research support and the role of biostatisticians in Japan <i>Makoto Tomita</i></p> <p>Socioeconomic differences in the prevalence of care need among older men and women in Ghana <i>Bashiru Saeed</i></p> <p>Spatial Analysis for Common Factors in Forced Migrations. Colombian Case <i>Carlos Mantilla Duarte</i></p> <p>The determinants of the professional integration of young people aged 15 to 34 in Togo: microeconomic approach <i>Ayikoue Honore Agbobly-Atayi</i></p>
--	---

<p>PO-B17 Room : A. 0.20</p>	<p>Methods and Theory 17 A method for constructing multivariate distributions with given heterogeneous margins <i>Salvatore Bologna</i> Advances in the matrix-variate beta ensemble with Bayesian application <i>Janet Van Niekerk</i> Bayesian reliability analysis of a linear "consecutive-k-out-of-n" system <i>Besma Bennour</i> Beta-Gamma and Beta-Weibull regression models for survival times <i>Curtis Miller</i> Comparing cumulative incidence functions at a fixed point in time <i>Zheng Chen</i> Comparison of two crossing survival curves <i>Chen Zheng</i> Estimating the mean of a heavy-tailed distribution under random censoring <i>Louiza Soltane</i> Mark second-order characteristics for spatio-temporal point processes <i>Francisco Rodriguez Cortés</i> Predictive estimation of a covariance matrix and its structural parameters <i>Haruhiko Ogasawara</i> Search of linear combination of factors maximizing area under receiver operator characteristic curve <i>Nicolae Todor</i> Sensitivity Analysis for Instrumental Variables Regression: A Nonparametric Bayesian Approach <i>Freddy López Quintero</i> Theoretical and Simulation Results on Generalized Ornstein-Uhlenbeck Type Processes <i>Silvia Regina Lopes</i> Two-factor experiment analysis for replicated marked point patterns <i>Jonatan Gonzalez-Monsalve</i> Visualizing changes in the distribution of relational data using dynamic reordering <i>Parisa Rastin</i></p>
---	---

IPS006 Room :	High-Dimensional Extremes: Models, Inference and Challenges Organiser(s): <i>Raphael Huser</i> Chair(s): <i>Ivette Gomes</i> Extreme Value Theory Without the Largest Values: What Can Be Done? <i>Richard Davis</i> Modelling spatial processes with unknown extremal dependence <i>Jennifer Wadsworth</i> Models based on elliptical processes to bridge asymptotic dependence and independence in spatial extremes <i>Thomas Opitz</i> Semiparametric estimation of space-time extremes <i>Claudia Klüppelberg</i> Discussant(s): <i>Raphael Huser</i>
IPS011 Room : A. 1.16	Synthetic Datasets for Statistical Disclosure Control - Research and Applications Around the World Organiser(s): <i>Jörg Drechsler</i> Chair(s): <i>Jörg Drechsler</i> Simulation of public-use complex survey and population data <i>Matthias Templ</i> Synthetic business microdata - a possible dissemination tool <i>Chien-Hung Chien</i> Synthetic Data: A Way to Solve Small Area Estimation Problems Partha Lahiri University of Maryland, College Park, USA ? plahiri@umd.edu Planning and evaluation of government programs usually require access to a wide range of national and sub-national so <i>Partha Lahiri</i> Usage and outcomes from a validation server: Experience with the Cornell Synthetic Data Server <i>Lars Vilhuber</i> Discussant(s): <i>Kevin Mckinney</i>
IPS022 Room :	Statistical challenges for African central banks Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Emmanuel Olorunsola Olowofeso</i> Mobilising statistics in Africa: challenges and opportunities for central banks <i>Jose Maria Serena</i> Statistical challenges for African central banks - views from South Africa <i>Barend De Beer</i> Statistical challenges for African central banks: Dealing with multiple transitions and challenging environments <i>Mohamed Taamouti</i> The relevance of developing a central balance sheet data office for Sao Tome and Principe <i>Dilson Tiny</i> Discussant(s): <i>Joáo Cadete De Matos</i>
IPS033 Room :	Communication of statistics in the post-truth society Organiser(s): <i>Emanuele Baldacci</i> Chair(s): <i>Mariana Kotzeva</i> Communication of statistics in the post-truth society <i>Elaine O'Mahoney</i> Role of statistical organizations and official statisticians in a time of "fake news" and biased information consumption <i>Haisahan Fu</i> The role of statistical offices in a "post-truth" society <i>Enrico Giovannini</i> Discussant(s): <i>Emanuele Baldacci</i>

IPS042 Room :	The agricultural censuses in the 21st Century: Challenges and new opportunities Organiser(s): <i>Jairo Castano, Naman Keita</i> Chair(s): <i>Neli Georgieva-Mihaylova</i> Agricultural Census in Morocco 2016, challenges and lessons from experience <i>Redouane Arrach</i> Overview of the new international guidelines on the World Programme for Census of Agriculture 2020 <i>Naman Keita</i> The agriculture censuses in the 21st century and link with population census with use of new technology: the case of Ethiopia <i>Aberash Tariku Abaye</i> Discussant(s): <i>Flavio Bolliger</i>
IPS068 Room : B. 0.02	New challenges to disseminate statistical literacy and problem-solving skills among people by Statistics Bureaus of Governments in "Open Data and Big Data" era Organiser(s): <i>Hiroe Tsubaki, Michiko Watanabe</i> Chair(s): <i>Hiroe Tsubaki</i> Building a data archive to open the Chinese survey data to the public <i>Wei Yuan</i> Mobile e-Book for training official statistician <i>Taerim Lee</i> New challenges to Promote Use of Statistics in Japan. -Toward the Creation of Higher Value by Utilizing Official Statistics- <i>Kenichiro Kakihara</i> tst <i>Kiyomi Shirakawa</i> Discussant(s): <i>Andrej Blejec, Jung Jin Lee</i>
IPS069 Room :	The Symbolic Approach in the Data Science Era Organiser(s): <i>Paula Brito</i> Chair(s): <i>Chun-Houh Chen</i> A Co-clustering method for a symbolic data representation of high dimensional temporal sequences <i>Rosanna Verde</i> Clustering of Interval Time Series <i>Ann Maharaj</i> Symbolic approach for big data, mini data, and neo big data <i>Masahiro Mizuta</i> Symbolic statistical methods: the suitable ones in the new data era <i>Paula Brito</i> Discussant(s): <i>Javier Arroyo</i>
IPS080 Room : A. 1.18	Sub-national Purchasing Power Parities (PPPs): Different Methods of Estimation and Application to China, India, Indonesia and Vietnam Organiser(s): <i>Luigi Biggeri</i> Chair(s): <i>Luigi Biggeri</i> Improvement of the Sub-national PPP Compilation Method and Its Application in China <i>Jun Wang</i> Regional and Urban-Rural China's Households? Well-Being <i>Guido Ferrari</i> Sensitivity of Global and Regional Poverty Rates to Alternative Purchasing Power Parities: Results from ICP, 2011 <i>Amita Majumder</i> Subnational Purchasing Power Parities in Asia: Prospects and Feasibilities <i>Yuri Dikhanov</i> Discussant(s): <i>Michel Mouyelo-Katoula</i>

<p>IPS100 Room : C. -1.01</p>	<p>Development and Application of International Guidelines for Statistical Business Registers Organiser(s): <i>Michael Colledge</i> Chair(s): <i>Oliver Chinganya</i> Abstract of "Development and Application of the SBR Guidelines of the Conference of European Statisticians" <i>Ronald Jansen</i> Development and Application of the African Development Bank Statistical Business Register Guidelines <i>Vikash Madhow</i> Development and Application of the UNECE's SBR Guidelines <i>Norbert Rainer</i> Establishing the Statistical Business Registers in Asia <i>Eileen Capilit</i> Experiences in Application of the European Statistical System Business Registers Recommendations Manual <i>Amerigo Liotti</i> TBD Discussant(s): <i>Michael Colledge</i></p>
<p>STS029 Room : A. -1.05</p>	<p>Advances on Non-parametric Statistics Organiser(s): <i>Noureddine Rhomari, Sophie Dabo</i> Chair(s): <i>Jelloul Allal</i> Density estimation over spatio-temporal data streams <i>Sophie Dabo</i> On the R-estimation of the slope parameters of simple linear regression models with dependent errors <i>Sana Louhichi</i> On local linear regression for strongly mixing random fields <i>Mohamed El Machkouri</i> On testing linearity of regression models in nonregular case <i>Zaher Mohdeb</i> Sharp exponential bounds for conditional Poisson sampling designs towards applications to big-data. <i>Patrice Bertail</i> Wavelet Relative Risk Function Estimation for Dependent Observations: Real and Spatial Data Cases <i>Noureddine Rhomari</i></p>
<p>STS031 Room : A. -1.06</p>	<p>Evolution of Random Systems. Statistical Models in Simulation Organiser(s): <i>Elena Yarovaya, Nikolaos Limnios</i> Chair(s): <i>Stanislav Molchanov</i> A multitype two-sex branching process for X-linked recessive disorders <i>Miguel Gonzalez</i> A Web semi-Markov Model & applications <i>Brahim Ouhbi</i> Discrete-time Markov random evolution system estimation <i>Nikolaos Limnios</i> Disparity estimation for controlled branching processes <i>Ines Del Puerto</i> Symmetric Branching Random Walks with 'Receding' Branching Sources <i>Elena Yarovaya</i> Discussant(s): <i>Larisa Afanasyeva</i></p>

<p>STS040 Room : A. -1.09</p>	<p>Spatio-Temporal Modeling for Environmental and Ecological Applications Organiser(s): <i>Ali Arab</i> Chair(s): <i>Jonathan Stroud</i> Adaptive ensemble Kalman filters for online Bayesian state and parameter estimation <i>Jonathan Stroud</i> Dynamic spatio-temporal models for spatial data <i>Trevor Hefley</i> Sequential Sampling Regime for Environmental Monitoring <i>Edward Boone</i> Spatio-temporal comparison of avian migration phenology using Citizen Science data <i>Ali Arab</i> TBD <i>Gabriel Huerta</i> Discussant(s): <i>Ali Arab</i></p>
<p>STS043 Room : A. 1.17</p>	<p>Shared Tools for Computing with Data in Official Statistics Organiser(s): <i>Mark Van Der Loo</i> Chair(s): <i>Mark Van Der Loo</i> An open source suite to harness Internet Data for statistical production <i>Giulio Barcaroli</i> JDemetra+ Java tool for Seasonal Adjustment <i>Dario Buono</i> Open source statistical software at the statistical office <i>Mark Van Der Loo</i> Visualisation and Imputation of Missing Values <i>Matthias Templ</i> Visualisation and Imputation of Missing Values <i>Alexander Kowarik</i></p>
<p>STS045 Room : A. 1.19</p>	<p>Economic and Productivity Growth: Convergence, Slowdown, and Explanations Organiser(s): <i>Peter Zadrozny, Sun Ling Wang</i> Chair(s): <i>Marca Weinberg</i> AN ECONOMETRIC METHOD FOR DECOMPOSING TOTAL-FACTOR PRODUCTIVITY INTO INDIVIDUAL-FACTOR PRODUCTIVITIES <i>Peter Zadrozny</i> Economic Growth, Convergence and World Food Demand and Supply <i>Will Martin</i> GDP per capita and TFP in advanced countries: A long-term perspective over the past and the future <i>Gilbert Cette</i> Is Productivity Growth Slowing in China and the U.S. Farm Sectors? <i>Sun Ling Wang</i> Discussant(s): <i>Baoline Cheng</i></p>

<p>STS056 Room : B. 1.04</p>	<p>Statistical modelling of HIV, TB, Vector Borne and other Infectious and non-infectious diseases in Africa and the Middle East Organiser(s): <i>Oyelola Adegboye</i> Chair(s): <i>Oyelola Adegboye</i> Bayesian mixed effects modeling of HIV and TB co-infection using informative priors <i>Siaka Lougue</i> Composite likelihood approach to spatial-clustered malaria data analysis <i>Peter Song</i> Correlates of HIV / AIDS and life expectancy among older population in South Africa <i>Sathiya Susuman</i> Investigating the spatial patterns of cough, fever and diarrhea among young children in West African countries <i>Gayawan Ezra</i> Network analysis of transmission of Middle East respiratory syndrome coronavirus contact structure and comorbidity status <i>Abdulmajeed Adegboye</i></p>
<p>STS060 Room : B. 1.05</p>	<p>Recent econometric/statistical approaches in Environmental modeling Organiser(s): <i>Ahmed El Ghini, Raja Chakir, Sophie Dabo-Niang</i> Chair(s): <i>Ahmed El Ghini, Raja Chakir</i> Climate induced land use change in France: impacts of agricultural adaptation and climate change mitigation <i>Raja Chakir</i> Flexible dependence modeling using convex combinations of different types of weight structures <i>Nicolas Debarsy</i> Non-parametric spatial prediction using k-nearest neighbor method <i>Sophie Dabo-Niang</i> Quantile regression for heavy tailed distributions Non-crossing and C-vine copula for spatial modelling <i>Salah-Eddine El Adlounie</i> Discussant(s): <i>Abdellatif Khattabi, Ahmed El Ghini, Anne-Françoise Yao, Taha Ouarda</i></p>
<p>STS085 Room : A. -1.07</p>	<p>Detection and Handling of Outliers in Big Data Organiser(s): <i>Rahmatullah Imon</i> Chair(s): <i>Abdelhameed El-Shaarawi</i> Big Data: Many Challenges and Some Solutions <i>Ali Hadi</i> Comparison of Functional Outlier Detection Methods <i>Nedret Billor</i> Identification of Outliers in Spatial Data <i>Rahmatullah Imon</i> On the Performance of Non-Sparse Sensitive Support Vector Regression for Outlier Detection in High Dimensional Data <i>Habshah Midi</i> Robust Outlier Detection in Partial Least Squares Regression <i>Aylin Alin</i> Discussant(s): <i>Yong Zubairi</i></p>

OR-A01 Room : A. -1.11	<p>Applications 01 An easy method for micro-simulations from grouped data to recover income distributions <i>Stefan Sperlich</i> An Inverse Problem Arising from Financial Markets <i>Yasushi Ota</i> Factors of access to employment in Morocco <i>Fatima Zahra Aissaoui</i> FINANCIAL SECTOR DEVELOPMENT AND THRESHOLD EFFECT OF INFLATION IN ECOWAS AND SADC: A PANEL SMOOTH TRANSITION REGRESSION APPROACH <i>Bashiru Saeed</i> MODELLING ASYMMETRY IN HOUSE PRICE CYCLE IN METROPOLITAN AREA: A LOGISTIC SMOOTH TRANSITION AUTOREGRESSIVE APPROACH <i>Huthaifa Alqaralleh</i> Spatio-Temporal Analysis of Regional Economic Differences Based on ESDA-A case study of county economy in Qinghai Province,China <i>Lijian Sun</i> Steering the parametric reform of the pension plans: the case of Moroccan pension fund <i>Nisrine Ghefou</i></p>
OR-B13 Room : A. 1.13	<p>Methods and Theory 13 A BAYESIAN ANALYSIS OF STRUCTURAL CHANGE IN THE PARAMETERS OF AR(1) MODEL <i>Abdeldjalil Slama</i> Bayesian Fertility Forecasting for the United Kingdom <i>Jason Hilton</i> Bayesian robustness analysis of autoregressive model with exponential innovations <i>Lydia Larbi</i> Clustering of curves on a spatial domain using a Bayesian partitioning model <i>Chae Young Lim</i> Full Bayesian inference for Asymmetric GARCH models with Student-t Innovations <i>Cristian Cruz Torres</i> Statistical Analysis of Chinese R&D Expenditure Statistical Mechanism and Feature Analysis Based on Size, Intensity and Structure <i>Yunjie Sun</i> Time Varying Rankings with the Bayesian Mallows Model <i>Derbachew Teni</i></p>
OR-C01 Room : A. 1.14	<p>Statistical Computing 01 A computer program for Bayesian D-optimal binary repeated measurements designs <i>Haftom Abebe</i> A new agglomerative hierarchical clustering algorithm based on optimised average silhouette width linkage criteria (AHCA - OASW) <i>Fatima Batool</i> BIG DATA ANALYSIS USING SHRINKAGE STRATEGIES <i>Mohammad Arashi</i> Cooperative Learning Used in a Multivariate Data Analysis Course <i>Christina Andersson</i> Extremal index estimation: a review of computational intensive procedures <i>Manuela Neves</i> Parallel Statistical Computing with R:An Illustration on Two Architectures <i>George Ostrouchov</i> Robust bootstrap densities for dynamic conditional correlations. <i>Carlos César Trucaos Maza</i></p>

<p>OR-E01 Room : C. 0.05</p>	<p>Business & Industry 01 Application of Structural Equation Model with a Mediation Variable on Service Quality and Customer Loyalty of Commercial Banks in Ghana. <i>Abdul-Aziz Abdul-Rahaman</i> Corporate Demand for General Takaful in Malaysia <i>Izwayu Abdul Aziz</i> Measuring Financial Market Spillovers Based on CAViaR Method: Asymmetric Tail Dependence <i>Petra Tomanova</i> Nonparametric Multivariate Approach in Mean-Semivariance Portfolio Selection <i>Hanene Ben Salah</i> Reject inference in credit scoring: Classical Vs machine learning approach <i>Mehdi Bazzi</i> Risk Analysis in Capital Investment Appraisal with Correlated Cash Flows: Simple Analytical Methods <i>Peter Pflaumer</i> Using Statistics Finland's enterprise data for calculating the connection between new orders, production, turnover and inventories <i>Kari Rautio</i></p>
----------------------------------	--

IPS010 Room :	High Frequency Financial Time Series, Pattern Recognition, and Volatility Organiser(s): <i>Bovas Abraham</i> Chair(s): <i>Bovas Abraham</i> Forecasting high-frequency wind speed data with Markov Switching Models <i>Jose Sanchez-Espigares</i> Modeling Durations in High Frequency Financial Data <i>Nalini Ravishanker</i> Sparse Principal Component Analysis of Financial Time Series <i>Giovanni Merola</i>
IPS012 Room :	Recent advances of joint models for big data Organiser(s): <i>Hongbin Zhang, Lang Wu</i> Chair(s): <i>Thaddeus Tarpey</i> Joint models for HIV vaccine data <i>Lang Wu</i> Joint tests for equality of mean and variance with application in high-throughput DNA methylation data analysis <i>Weiliang Qiu</i> Joint-modelling of discrete, continuous and semi-continuous longitudinal big data with applications <i>Renjun Ma</i>
IPS023 Room :	Sentiment surveys for economic policy analysis: evolving uses and methods Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Junichi Suzuki</i> Accuracy of expectations in business surveys <i>Martin Galstyan</i> European Union consumers quantitative inflation perceptions and expectations. An evaluation <i>Heinz Dieden</i> Sentiment surveys for economic policy analysis: evolving uses and methods <i>Jens Mehrhoff</i> Sentiment surveys in Portugal: description and empirical analyses <i>Ligia Maria Nunes</i> Discussant(s): <i>Aloisio Campelo</i>
IPS032 Room :	Space-Time Statistical Models for High-Dimensional Computer Experiments Organiser(s): <i>Stefano Castruccio</i> Chair(s): <i>Marc Genton</i> Computer model calibration with large nonstationary spatial outputs <i>Serge Guillas</i> Computer Models, Spatial Statistics, and the West Antarctic Ice Sheet <i>Murali Haran</i> Maximum likelihood estimation of weights in multiple kernel Gaussian Process models <i>David Ginsbourger</i> Discussant(s): <i>Stefano Castruccio</i>
IPS034 Room :	Uni-Multivariate Count Dispersion and Applications Organiser(s): <i>Celestin Kokonendji</i> Chair(s): <i>Celestin Kokonendji</i> A longitudinal COM-Poisson regression model with random effects <i>Freedom Gumedze</i> Bivariate Conway-Maxwell-Poisson Distribution: Formulation, Properties, and Inference <i>Kimberly Sellers</i> Over- and under-dispersion in multivariate count distributions <i>Pedro Puig</i> Discussant(s): <i>Clarice Demetrio</i>

IPS037 Room :	Optimization and Statistics Organiser(s): <i>Sara Van De Geer</i> Chair(s): <i>Sara Van De Geer</i> Convex Optimization for Large-Scale Statistical Learning <i>Francis Bach</i> Detecting Sparse Structures in Data in Sublinear Time: A Group Testing Approach <i>Boaz Nadler</i> Estimating High-Dimensional Autoregressive Point Processes <i>Rebecca Willett</i>
IPS043 Room : A. 1.16	The Future of the Social Sciences and Statistics Organiser(s): <i>Gentry White</i> Chair(s): <i>Rolando Ocampo</i> A collaborative approach to understanding the drivers of social disadvantage in Australia: Utilising observational data to address a big social problem <i>Michele Haynes</i> Beyond Modelling for Inference <i>Gentry White</i> Disaggregated Point Process Models for Social Systems <i>Michael Porter</i> Discussant(s): <i>Kerrie Mengersen</i>
IPS049 Room :	Old and new frontiers in sampling Organiser(s): <i>Li-Chun Zhang</i> Chair(s): <i>Danny Pfeffermann</i> A better use of multi-source data in the production of official statistics: an adaptive network sampling approach <i>Melike Oguz-Alper</i> A central limit theorem for pivotal sampling with application to spatial sampling <i>Guillaume Chauvet</i> Estimation strategies combining different sources of data <i>Piero Falorsi</i> On balanced sampling design in the presence of nonresponse and outliers <i>Paul Smith</i>
IPS071 Room :	Agri-environmental statistics Organiser(s): <i>Elisabetta Carfagna</i> Chair(s): <i>Redouane Arrach</i> Estimating the length of linear landscape elements from a sample of transects in the Eurostat LUCAS survey. <i>Javier Gallego</i> Geospatial information and ground data for estimating agro-environmental parameters <i>Elisabetta Carfagna</i> Spatio-Temporal Sampling for the US National Resources Inventory Survey: Past, Present, and Future <i>Zhengyuan Zhu</i> Discussant(s): <i>Alessandra Petrucci</i>

<p>STS001 Room : A. -1.07</p>	<p>Addressing the challenges posed by external statistics Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Hock Chai Toh</i> Compiling external sector statistics in Brazil - challenges and demands <i>Thiago Vieira</i> Does pass-thru funds require their own functional category? <i>Jacek Kocerka</i> Measuring merchandise and international freight transportation costs in the Balance of Payments(BOP) <i>Jens Walter</i> Why do external statistics matter? A multidimensional approach in a context of macroeconomic imbalances <i>Joao Cadete De Matos</i> Discussant(s): <i>Katherine Hennings</i></p>
<p>STS002 Room : A. -1.05</p>	<p>Statistics & Cosmetics Organiser(s): <i>Hicham Nocairi, Philippe Bastien</i> Functional models applied to data from connected devices <i>Cristian Preda</i> RGCCA for the analysis of Microbiome data <i>Arthur Tenenhaus</i> The value of Bayesian statistics for the development and evaluation of new cosmetic products <i>Bruno Boulanger</i> Discussant(s): <i>Gilbert Saporta</i></p>
<p>STS044 Room : A. 1.19</p>	<p>Applications of scoring rules to inference, prediction and model selection Organiser(s): <i>Matthew Parry</i> Chair(s): <i>Genevera Allen</i> Bayesian Discrete Model Selection Based on Proper Scoring Rules <i>Philip Dawid</i> Bayesian Inference for directional data through ABC and homogeneous proper scoring rules <i>Monica Musio</i> Scoring rules for probabilistic binary classification <i>Matthew Parry</i> The magic of score matching estimators and approximations for distributions on manifolds and some cutting edge applications to molecular biology <i>Kanti Mardia</i></p>
<p>STS070 Room : B. 1.04</p>	<p>The role of the Regional Statistical Training Centers (RSTCs) in building a statistical capacity and literacy: A panel Discussion Organiser(s): <i>Irena Krizman</i> Chair(s): <i>Irena Krizman</i> TBD <i>Xia Rongpo</i> The establishment of a Global Network of Institutions for Statistical Training <i>Francesca Perucci</i> The opportunities and urgency to coordinate global statistical training and capacity building. <i>Pieter Everaers</i> The Role of the Regional Statistical Training Centers (RSTCs) in Building Statistical Capacity and Literacy in Sub-Saharan Africa <i>Innocent Ngalinda</i> Training Official Statisticians in Asia & the Pacific: Why history cannot repeat itself <i>Margarita Guerrero</i></p>

<p>STS072 Room : A. -1.06</p>	<p>Modeling the changes in hydro-meteorological variables using functional data analysis with the application to the climate phenomenon in Malaysia Organiser(s): <i>Shariffah Suhaila Syed Jamaludin</i> Chair(s): <i>Fadhilah Yusof</i> APPLICATION OF FUNCTIONAL DATA ANALYSIS ON DAILY RAINFALL: A CASE STUDY IN PENINSULAR MALAYSIA <i>Muhammad Fauzee Hamdan</i> FUNCTIONAL DATA ANALYSIS FOR STREAMFLOW DATA OF PAHANG RIVER <i>Norazlina Ismail</i> Modeling the changes in temperature series using functional data analysis: A Case Study in Subang, Peninsular Malaysia. <i>Shariffah Suhaila Syed Jamaludin</i> Discussant(s): <i>Wan Zawiah Wan Zin</i></p>
<p>STS079 Room : A. -1.09</p>	<p>The Analysis and comparisons of Poverty Levels and Indicators in 'real terms' by using the Purchasing Power Parities: methodological problems and applications Organiser(s): <i>Achille Lemmi, Luigi Biggeri</i> Monetary poverty indicators at local level: definitions, methods of estimations and comparisons in real terms <i>Monica Pratesi</i> Supplemental Poverty Measure: A Comparison of Geographic Adjustments with Regional Price Parities vs. Median Rents from the American Community Survey: An Update <i>Eric Figueroa</i> TBD <i>Dean Jolliffe</i></p>
<p>STS096 Room : A. 1.17</p>	<p>Direction of Dependency and Causality Organiser(s): <i>Yadolah Dodge</i> Direction Dependence Analysis: A Unified Framework to Evaluate the Direction of Dependence in Linear Models <i>Wolfgang Wiedermann</i> Direction of Effects in Binary Variables <i>Alexander Von Eye</i> What is the null hypothesis when testing the direction of dependence in a linear model? <i>Valentin Rousson</i></p>
<p>STS828 Room : B. 1.05</p>	<p>Multivariate Circular Distribution in Hypertorus with Applications to Protein Structure Prediction Problem. Organiser(s): <i>Ashis Sengupta, Seng Huat Ong</i> Chair(s): <i>Ashis Sengupta</i> Bivariate Circular Distributions based on Sarmanov-Lee Family of Distributions <i>Seng Huat Ong</i> Multivariate Multiple Circular Regression <i>Sungsu Kim</i> Robustness of tests for circular mean direction <i>Arnab Laha</i> TBD <i>Surucu Baris</i></p>

<p>OR-B01 Room : A. -1.11</p>	<p>Methods and Theory 01 A MULTI-STAGE ADAPTIVE POOLTESTING MODEL WITH TEST ERRORS VIS-A-VIS THE NON-ADAPTIVE MODEL WITHOUT TEST ERRORS <i>Annette Okoth</i> Minimum contrast estimators for long-range dependent random fields <i>Andriy Olenko</i> Modified Alternative to Ridge Estimator <i>Ashok Dorugade</i> Parametric Spectral Discrimination <i>Andrew Grant</i> Possible Approach to Modernise Statistical System <i>Arijana Amina Ramic</i> ROC curve comparison in the presence of covariates <i>Aris Fanjul Hevia</i></p>
<p>OR-B02 Room : A. 1.13</p>	<p>Methods and Theory 02 A brief survey of Visual Assessment of clustering Tendency <i>Augusto Fadel</i> A Joint Quantile and Expected Shortfall Regression Framework <i>Timo Dimitriadis</i> A note on agreement rate and class number <i>Sung-Ho Kim</i> Bayesian approach to errors-in-variables negative binomial regression model <i>Nur Aainaa Rozliman</i> Quantile function approximation using regularly varying functions <i>Thoams Fung</i> Using Regularized PQL in Mixed Logistic Normal Approach to Analyse Crash Data <i>Hafidi Bezza</i></p>
<p>OR-F01 Room : A. 1.14</p>	<p>Official Statistics 01 A new approach to estimate the structural equation models <i>Ahmed Ouazza</i> Measuring (Nonlinear) Granger Causality in Quantiles <i>Abderrahim Taamouti</i> Nonparametric estimation with dependent twice censorship <i>Abderrahim Kitouni</i> Official Statistics and Modern Technologies Revolution: (Palestine Case) <i>Haleema Said</i> Robust estimation of the tail index of Pareto-type distributions under random truncation <i>Abida Zahnit</i> Ulsan Baby Boomer Statistics Development and Regional Policy Monitoring <i>Younyoung Park</i></p>

OR-H01 Room : C. 0.05	Environmetrics 01 A combined contamination severity index for traffic related atmospheric pollution based on chemical element concentration in tree barks <i>Julio Singer</i> Comparing Record Linkage Techniques for Integrating Data on Brazilian Agriculture <i>Andrea Diniz Da Silva</i> Econometric Approaches to Measuring Climate Change Effects on the Agriculture Production: Evidence from Morocco <i>Karim Belcaid</i> Impact of atmospheric circulation patterns on hospital admissions due to circulatory and respiratory diseases in Lisbon <i>Giovani Silva</i> Testing spatio-temporal separability by a first-order log-ratio based test. Application to the analysis of wildfire patterns <i>Isabel Fuentes-Santos</i> The causal relationship between renewable energy consumption and economic growth in Morocco <i>Mounir El Karimi</i>
---------------------------------	---

PP-A05 Room : A. 0.21	Applications 05 An application of Stable law regression models to animal movement GPS telemetry data <i>Robert Mathenge Mutwiri</i> Assessing the Economic Performance of Egypt: Economic Performance Index <i>Hagar Ali</i> Capability of GIS Applications As A Supporting Approach in Development Process in Egypt <i>Dalia Elabady</i> CAUSAL RELATIONSHIP BETWEEN REAL IMPORT, REAL EXPORT AND REAL GDP IN THE GAMBIA: AN ECONOMETRICS INVESTIGATION <i>Mawdo Gibba</i> Dual-use performance measures for customer service evaluation in bike-shared systems <i>Luan Jaupi</i> Estimation of Age of Chronic Disease Onset from Prevalence Data: The Case of Diabetes in Uganda <i>Leonard Atuhaire</i> Evaluation of agricultural public expenditure with the COFOG methodology : case of Togo from 2010 to 2014 <i>Lao Kenao</i> Forecasting electricity demand in Egypt: A comparison study <i>Eman Mohamed</i> Individual and Contextual Effects of Womens Work on Child Health: Evidence from Kenya and Zambia using DHS and Census Data <i>Miriam King</i> Spatial Prediction of Fine Particulate Matter in Taiwan <i>Hsin-Cheng Huang</i> Support Vector Regression and Artificial Neural Network Approaches: Case of Economic Growth in East Africa Community <i>Abraham Lagat</i> The Effects of State Dependence in University Graduates Employment: Analysis Using Dynamic Model <i>Fatima Berahou</i> Twin Deficits : Empirical investigation for Togo <i>Kokouvi Juste Joseph Djabakou</i> Using Cluster Analysis to Group States of the Sudan According to their Development Potentials: The Middle and Western States of the Sudan in 2011 <i>Mozamel Somi</i> Validation of the Smooth Test of Goodness-of-fit for Proportional Hazards in Cancer Survival Studies <i>Collins Odhiambo</i> What drive Regional Economic Inequalities in Tunisia? Evidence from Unconditional Quantile Decomposition Analysis <i>Hatem Jemmali</i>
--	---

IPS016 Room :	Recent Advances in Reliability, Repairable Systems, Event-Time Analysis, and Model Selection Organiser(s): <i>Edsel Pena</i> Chair(s): <i>Edsel Pena</i> Flexible modeling of competing risks and model selection <i>Sanjib Basu</i> Modeling of semi-competing risks by first passage models <i>Bo Lindqvist</i> Some insights into dependence among competing risks and identifiability <i>Ananda Sen</i> Superposed Log-Linear Process to Model Repairable Artillery Systems <i>Paul Kvam</i>
IPS026 Room :	Role of statistics for evidence-based decision making Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>João Cadete De Matos</i> Identifying supply and demand factors in credit growth in Mexico: an application to the Countercyclical Capital Buffer <i>Calixto López</i> The link between the Financial Operation Register and the policy measures to face capital flows sudden stops <i>Fernando Alberto Rocha</i> The role of statistics in monetary policy decision making in Morocco: The case of real estate price index <i>Anas Maaroufi</i> The use of statistical data to inform public policy in Mexico. The case of poverty statistics <i>Graciela Teruel</i> Using micro data to support evidence-based policy <i>Bruno Tissot</i>
IPS030 Room :	Ethics and Big Data Organiser(s): <i>Stephen Penneck</i> Chair(s): <i>Stephen Penneck</i> Big Data and Ethics - An Official Statistician's Perspective <i>Siu-Ming Tam</i> Big data, selection bias, and ways to correct for it <i>Piet Daas</i> The American Statistical Associations Revised Ethical Guidelines: Deliberations and Conclusions <i>Howard Hogan</i> What is Fair Data Processing ? <i>Benjamin Nguyen</i>
IPS044 Room :	New developments in sound and cost-effective methods in Agricultural Statistics Organiser(s): <i>Flavio Bolliger, Neli Georgieva-Mihaylova</i> Chair(s): <i>Hubert Hamer</i> Estimating Agriculture Cost of Production <i>Dramane Bako</i> Measurement of proxy variables to measure livestock productivity in developing countries: experience in three countries <i>Alister Baker</i> MEASURING AREA, YIELD AND PRODUCTION OF VEGETABLE CROPS <i>Naman Keita</i> Discussant(s): <i>Nguyen Lieu, Seghir Bouzaffour</i>

IPS047 Room :	International Comparison Program: Challenges and Opportunities Organiser(s): <i>D.S. Prasada Rao</i> Chair(s): <i>Haishan Fu</i> Annual Price and Real Expenditure Comparisons within the International Comparison Program: Feasibility and Empirical Illustration <i>D.S. Prasada Rao</i> International Comparison Program: Methodological Challenges and Research Agenda <i>Yuri Dikhanov</i> Testing the use of scanner data for computing sub-national Purchasing Power Parities in Italy <i>Tiziana Laureti</i> Discussant(s): <i>Luigi Biggeri</i>
IPS048 Room :	Opportunities and Challenges for Teaching Introductory Statistics Organiser(s): <i>Delia North</i> Chair(s): <i>Delia North</i> Opportunities and Challenges for Teaching Introductory Statistics - the Ethiopia Experience <i>Essey Kebede</i> Pedagogic strategies supporting statistical literacy - sexier with less nudity? <i>Martin Gellerstedt</i> Teaching Introductory Statistics in the Modern Era <i>Temesgen Zewotir</i>
IPS050 Room :	Model-based indicators summarising multi-dimensional phenomena: statistical principles and methods to convey consistent policy messages Organiser(s): <i>Di Ciaccio Agostino, Maurizio Vichi</i> From complexity to synthesis and back. Methodological reflections on the synthesis exercise in multi-indicator systems. <i>Filomena Maggino</i> Model-based composite indicator for summarising multi-dimensional phenomena <i>Maurizio Vichi</i> Discussant(s): <i>Emanuele Baldacci</i>
IPS055 Room :	Statistical and stochastic modelling of vector-borne infectious diseases Organiser(s): <i>Cigdem Ak, Elvan Ceyhan</i> Chair(s): <i>Lilia Leticia Ramirez Ramirez</i> An environmentally-driven stochastic population dynamics model of sand flies <i>Kamil Erguler</i> Prediction of dengue cases using SARIMA models <i>Eniuce Menezes De Souza</i> Stochastic Epidemic Model for the Transmission Dynamics of a Tick-borne Disease <i>Cigdem Ak</i> Discussant(s): <i>Alexander Krämer</i>
IPS065 Room :	Statistics for High Dimensional Data : Theory and Methods Organiser(s): <i>Probal Chaudhuri</i> Chair(s): <i>Amita Majumder</i> Efficiency in the high-dimensional one-sample location problem <i>Davy Paindaveine</i> Feature sensitive curve registration by maximizing kernel based matching score <i>Debasis Sengupta</i> Discussant(s): <i>Sophie Dabo-Niang</i>

IPS129 Room :	Stochastic methods in finance and economics Organiser(s): <i>Mark Podolskij</i> Chair(s): <i>Victor Panaretos</i> Hedging under rough volatility <i>Mathieu Rosenbaum</i> On the minimal number of driving L evy motions in a multivariate price model <i>Mark Podolskij</i> Polynomial Jump-Diffusion Models <i>Damir Filipovic</i>
STS003 Room : A. -1.07	New prospects for the compilation of sectoral financial accounts Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Gülbin Sahinbeyoglu</i> Compiling financial accounts: a European perspective <i>Caroline Willeke</i> Financial accounts in Chile. <i>Claudia Henríquez</i> Statistical coverage of financial institutions in Luxembourg: achievements, challenges and ways ahead <i>Paul Feuvrier</i> Tailoring national financial accounts to the users needs using administrative and other large granular datasets <i>Filipa Lima</i>
STS005 Room : A. -1.05	Statistical Disclosure Control - Methods and Applications Organiser(s): <i>Carlos Coelho</i> Chair(s): <i>Carlos Coelho</i> Singly Imputed Partial Synthetic Data via Plug-in Sampling: Inference for Multivariate Linear Regression Model <i>Ricardo Moura</i> A Novel Unbiased Post-randomization Method for Guaranteed Control of Identification Risk in Microdata Release <i>Tapan Nayak</i> Perspectives on Utility Measures for Synthetic Data Sets <i>Snoke Joshua</i> TBD <i>Bimal Sinha</i> Discussant(s): <i>Jörg Drechsler</i>
STS028 Room : A. 1.17	Advances in Bayesian Modeling for Novel Application Areas Organiser(s): <i>Nalini Ravishanker</i> Chair(s): <i>Refik Soyer</i> Bayesian Mixture based Models for Medical Overpayments <i>Tahir Ekin</i> Generalized latent VARMAX models and dynamic structural equations, with application to the study of the effect of pollution on health <i>Dani Gamerman</i> Hierarchical Models for SKU Pricing in Consumer Packaged Goods Industry <i>Balaji Raman</i> Multivariate Models of Realized Beta and Stochastic Volatility <i>Kathy Ensor</i>

STS047 Room : A. 1.19	Modernising Official Statistics with the Common Statistical Production Architecture Organiser(s): <i>Steven Vale</i> Chair(s): <i>Lidia Bratanova</i> CSPA for Digital Transformation <i>Thérèse Lalor</i> Modernising Official Statistics with CSPA and Data Architecture projects <i>Carlo Vaccari</i> Shared services, the European Statistical System (ESS) implementation of CSPA <i>Emanuele Baldacci</i> What is CSPA, and why is it changing official statistics? <i>Steven Vale</i>
STS050 Room : B. 1.04	The Challenges of Improving Statistical Literacy in Developing Countries Organiser(s): <i>Steve Macfeely</i> Chair(s): <i>Steve Macfeely</i> CHALLENGES of IMPROVING STATISTICAL LITERACY in IRAN <i>Afshin Ashofteh</i> Data partners and data champions for advancing statistical literacy in developing countries <i>Lisa Bersales</i> ENHANCING STATISTICAL LITERACY IN KENYA Lesson Learned From organizing Poster Competition <i>Betty Gichohi</i> The Challenges of Improving Statistical Literacy and Skills in Developing Countries: Small Country Experiences in Sri Lanka <i>T. Dharmartane</i> Discussant(s): <i>David Stern</i>
STS052 Room : B. 1.05	Dependence modeling and applications Organiser(s): <i>Bouchra Nasri, Bruno Rémillard</i> Chair(s): <i>Bruno Rémillard</i> Forecasting time series with multivariate copulas <i>Clarence Simard</i> Multivariate statistical post-processing experiments of ensemble weather forecasts <i>Luc Perreault</i> On copula-based conditional quantile estimators <i>Bouchra Nasri</i> On resampling of tests based on empirical copula <i>Kilani Ghoudi</i>
STS087 Room : A. -1.09	Model specification tests Organiser(s): <i>Kilani Ghoudi</i> Goodness of-fit and randomness tests for stochastic volatility models <i>Kilani Ghoudi</i> On the conditional homoscedasticity test in time series: asymptotic power properties <i>Mohamed Chaouch</i> Specification test for the conditional error distribution in functional nonparametric regression <i>Mohamed Cherfi</i> Statistical Inference in Infinite-Order Cointegrated Vector Autoregressive Processes Under Uncorrelated but Dependent Errors <i>Chafik Bouhaddioui</i>

STS095 Room : A. -1.06	Bayesian small area estimation Organiser(s): <i>Isabel Molina</i> Chair(s): <i>Juan Miguel Marín</i> New Methods for Small Area Estimation with Linkage Uncertainty <i>Brunero Liseo</i> TBD <i>Malay Ghosh</i> Discussant(s): <i>Juan Miguel Marín</i>
OR-B04 Room : A. -1.11	Methods and Theory 04 Asymptotic confidence bands for copulas based on the transformation kernel estimator <i>Diam Ba</i> Effect of under-coverage of the classification variable on the accuracy for the domain estimates of the total <i>Danute Krapavickaite</i> On bias reducing technique in kernel density estimation for heavy-tailed distributions <i>Djabrane Yahia</i> Optimal adaptive sample allocation in stratified sampling under budget constraints <i>Elisabetta Carfagna</i> Power Calculations for Stepped Wedge Designs with Binary Outcomes <i>Donna Spiegelman</i> Visualized Statistical Contents, Customized Personal Price Index Calculation Service <i>Eunyoung Park</i>
OR-B05 Room : A. 1.13	Methods and Theory 05 Accurate forecast of factors models based on the VAR representation of the common components <i>Gilles Nisol</i> Expected value and variance of a fuzzy variable based on a new fuzzy measure <i>Fono Louis Aimé</i> Modelling claims data using robust mixture of regressions <i>Frans Kanfer</i> R&D and Productivity Change before and after the Crisis: Micro Evidence from Chinese Official Innovation Survey <i>Feng Zhen</i> The circular market flow as an approach to explain the value of official statistics to users <i>Florabela Carausu</i>
OR-F02 Room : A. 1.14	Official Statistics 02 A supermartingale argument for characterizing the Functional Hill process weak law for small parameters <i>Adja Mbarka Fall</i> Ordinal Pattern Dependence in Contrast to Other Concepts of Dependence <i>Alexander Schnurr</i> Time Varying Persistence in GARCH-in-Mean Models with Time-Dependent Coefficients <i>Alessandra Canepa</i> Variable selection in multiple regression with random design <i>Alban Mbina Mbina</i>

OR-H02 Room : C. 0.05	Environmetrics 02 A priori constraints on the parameters of the generalized extreme value distribution for annual maxima of river discharge <i>Ronald Van Nooijen</i> Empirical viability of the environmental Kuznets curve: Discussions and criticisms <i>Salsabil Yacour</i> Modelling average maximum daily temperature using r largest order statistics: An application to South African data <i>Murendeni Nemukula</i> Probabilistic Forecasting of Daily Extreme Temperature using Bivariate Models of Daily Minimum and Maximum Time Series <i>Xiaochun Meng</i> Spatial and Temporal Variability of Monthly Rainfall in the Blue Nile Basin <i>Yasmine Abdelfattah</i> Wind Energy as Source for Rural Electricity to Enhance Agricultural Production at Djelfa State (Center of Algeria) <i>Brahim Taoussi</i>
---------------------------------	---

<p>IPS004 Room :</p>	<p>Being a 'performing statistician' Organiser(s): <i>Fabrizio Ruggeri</i> Chair(s): <i>Helen Macgillivray</i> Being a 'performing statistician' <i>David Spiegelhalter</i></p>
<p>IPS126 Room :</p>	<p>William Sealy Gosset Lecture Organiser(s): <i>David Banks</i> Chair(s): <i>David Banks</i> Gosset Lecture: An Overview of Machine Learning Methods and Some Applications in Business and Finance <i>Vijay Nair</i> Discussant(s): <i>David Banks</i></p>
<p>IPS128 Room :</p>	<p>Peter Hall Memorial Session Organiser(s): <i>Victor Panaretos</i> Chair(s): <i>Victor Panaretos</i> High Dimension Low Sample Size Asymptotics <i>Steve Marron</i> Peter Hall at the University of Melbourne and his contributions to deconvolution. <i>Aurore Delaigle</i></p>
<p>IPS148 Room :</p>	<p>The transformation of IAOS 1985-2015: the past, the current and the future Organiser(s): <i>Ola Awad</i> Chair(s): <i>Ola Awad</i> IAOS: learning from the past <i>Stephen Penneck</i> The future of IAOS: Is there a lurking crisis? <i>Mario Palma</i></p>
<p>IPS154 Room :</p>	<p>IASE Presidential lecture Organiser(s): <i>Andrej Blejec</i> Chair(s): <i>Andrej Blejec</i> Statistical Thinking in a Data Science Course <i>Deborah Nolan</i></p>

PO-A08 Room : A. 0.20	<p>Applications 08 A statistical application regarding a survey of the people under the age of 45 who have AB0 (ABRH±) blood group to see whether they have cognitive inefficiency <i>Adnan Mazmanoglu</i></p> <p>Aim to expand Statistical capacity in Bangladesh <i>Md Sebastian Perez-Duarte</i></p> <p>Assessing the Relationship between Socio-demographic Characteristics, the Need for Care and Wellbeing of Informal Caregiving in Ghana <i>Bashiru Saeed</i></p> <p>Can aggregation explain the high persistence of inflation in China? Empirical evidence from CPI disaggregate data <i>Guangming Lv</i></p> <p>Decent work measurement: The case of Azerbaijan <i>Nemat Khuduzade</i></p> <p>Design and Analysis of Biosimilarity Based on Interval Estimations <i>Chieh Chiang</i></p> <p>Estimating disease progression using Bayesian Semi Markov Approach <i>Tilahun Asena</i></p> <p>Evaluating the link between microbiome and cosmetic clinical signs With PLS Approaches <i>Hicham Noçairi</i></p> <p>Firms size and Gender: Access to Credit as a Growth Constraint in Africa <i>Marc Akplogan</i></p> <p>Growth Curve Modeling : The economic impact of higher education <i>Adnane Belakhdar</i></p> <p>META-ANALYSIS OF LOCI FOR RESISTANCE TO VIRAL MAIZE DISEASES <i>Monica Balzarini</i></p> <p>ON DETECTION OF EPILEPTIC SEIZURE WITH AN APPROACH BASED ON POWER SPECTRAL DENSITY WITH AN AR MODEL <i>Mahamat Issaka</i></p> <p>On the determinants of underemployment in Morocco <i>Naima Labroude</i></p> <p>SPATIAL DISTRIBUTION OF TUBERCULOSIS PATIENTS IN DOUALA, CAMEROON: EVIDENCE OF HETEROGENEITY <i>André Nana Yakam</i></p> <p>The co-existence of accumulation of functional deficits, depression symptom, and the effect on mortality: a longitudinal study of Taiwanese elderly <i>Hsing-Yi Chang</i></p> <p>The Impact of Institutional Quality on Foreign Direct Investment in Burkina Faso <i>Zakaya Ramde</i></p> <p>USE OF SMOKELESS TOBACCO AND ITS ASSOCIATED RISK FACTORS AMONG LOW SOCIO-ECONOMIC POPULATIONS <i>Md Shahjahan</i></p> <p>Using Knoweldge Discovery approach to understand life conditions in Ecuador <i>Karina Gibert</i></p>
--	---

PO-C02 Room : A. 0.20	Statistical Computing 02 A clustering algorithm and testing for angular data <i>Yoshitomo Akimoto</i> A new step by step algorithm to build uniform mixtures design <i>Charles Gomes</i> Classification of High Dimensional Data: A Distance Based Approach <i>Olusola Makinde</i> Comparing supervised machine learning algorithms using item response theory models <i>Mariana Curi</i> Mean-of-order-p reduced-bias value-at-risk estimation: a small-scale Monte-Carlo study <i>Dinis Pestana</i> Pros and cons of Using CSpro in Designing a Data Entry Applications for the Statistical Survey <i>Waleed Mohammed</i> Research on the Monitoring of Population Dynamics in the Big Data Era <i>Xue Ping</i> Statistical stories in the new information environment ? Towards mobile article and blog service <i>Maija Metsä</i> Testing equality of two mean vectors on subvectors with two-step monotone missing data <i>Tamae Kawasaki</i> Visualization and data analysis for the text data regarding radiation <i>Takafumi Kubota</i>
---------------------------------	--

<p>IPS020 Room :</p>	<p>Advances in Integration and Reconciliation of Large System of National Accounts Data: Theory and Practice Organiser(s): <i>Baoline Chen, Nino Mushkudiani</i> Chair(s): <i>Marco Marini</i></p> <p>Seasonal adjustment and the balancing problem ? Statistics Canada's experience <i>Susie Fortier</i></p> <p>Solving large data consistency problems at Statistics Netherlands using macro integration techniques <i>Nino Mushkudiani</i></p> <p>The Statistical Reconciliation of Time Series of Accounts between two Benchmark Revisions <i>Baoline Chen</i></p> <p>Uncertainty and automatic balancing of the national accounts <i>Yingfu Xie</i> Discussant(s): <i>Tammaso Di Fonzo</i></p>
<p>IPS021 Room :</p>	<p>Enhancing statistical cooperation between national central banks and statistical offices Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Chung Seak Roh</i></p> <p>Conditions for a successful statistical cooperation between National Central Banks and Statistical Offices <i>Abdelhamid El Maazouzi</i></p> <p>Cooperation in Europe the Macroeconomic Imbalance Procedure (MIP) scoreboard <i>John Verrinder</i></p> <p>Holding companies and Head offices within the framework of the SNA 2008 ESA 2010: collaboration between the INE and the Banco de España for their sectoral classification and for obtaining data from annual business accounts <i>Begona Gutierrez Del Olmo</i></p> <p>Strategic coordination of a National Statistical System: the case of the Portuguese Statistical Council <i>João Cadete De Matos</i></p> <p>Strengthening the National Statistical System with the cooperation of the Central Bank: Lessons from Mexico <i>Julio Santaella</i></p>
<p>IPS035 Room :</p>	<p>Statistics Education for Social Engagement Organiser(s): <i>Jim Ridgway, Pedro Campos</i> Chair(s): <i>Jim Ridgway</i></p> <p>Design, Realization and Evaluation of a university course for preservice teachers on developing statistical reasoning and literacy with a focus on Civic Statistics <i>Daniel Frischmeier</i></p> <p>Learning statistics about society: more than acquiring some technical skills <i>Joachim Engel</i></p> <p>Pictures and Numbers ? responding to the challenge of finding authentic 'futureproof' data sets and visualisations <i>Pedro Campos</i></p> <p>Understanding statistics about society: Mapping the knowledge and skills needed to engage with Civic Statistics <i>James Nicholson</i> Discussant(s): <i>Alexey Ponomarenko</i></p>

IPS040 Room :	Integrative analysis of complex data - from genomics to bioinformatics Organiser(s): <i>Shili Lin</i> Chair(s): <i>Ying Sun</i> A signal estimation approach for meta-analysis of ranking data applied to drug gene signatures <i>Michael Schimek</i> Post-hoc Marker-Set Analysis for Risk Variant Prioritization: A False Negative Control Procedure for Rare Variant Analysis at Single Locus Level <i>Jung-Ying Tzeng</i> Powerful Tests for Genomic Imprinting Effects on the X Chromosome Using Nuclear Families <i>Wing-Kam Fung</i> Statistical Methods for Inference of Spatial Gene Regulation <i>Shili Lin</i> Discussant(s): <i>Mariza De Andrade</i>
IPS046 Room :	Challenges in the Measurement of Human Capital Organiser(s): <i>Andrew Sharpe, Barbara M. Fraumeni</i> Chair(s): <i>Andrew Sharpe</i> Conclusions from the UNECE Task Force Guide on Measuring Human Capital <i>Ann Lisbet Brathaug</i> Human Capital Around the World <i>Barbara M. Fraumeni</i> Human Capital in the Inclusive Wealth Report 2017 <i>Shunsuke Managi</i> Regional Distribution and Dynamics of Human Capital in China 1985-2014: Education, Urbanization, and Aging of the Population <i>Haizheng Li</i>
IPS058 Room :	Modern Statistics Meets Modern Optimization Organiser(s): <i>Roy Welsch</i> Chair(s): <i>Welsch Roy</i> Efficient Inference of Average Treatment Effects in High Dimensions via Approximate Residual Balancing <i>Stefan Wager</i> New Results for Sparsity-inducing Methods for Logistic Regression <i>Robert Freund</i> Scalable Bootstrap Inference on Many Target Parameters using Double/Orthogonal Machine Learning <i>Victor Chernozhukov</i> Sparse Multivariate Statistics with Discrete Optimization <i>Rahul Mazumder</i> Discussant(s): <i>Francis Bach</i>
IPS087 Room :	Collaborations with Business and Industry Through the LISA 2020 Program Organiser(s): <i>Eric Vance</i> Chair(s): <i>James Rosenberger</i> Inter University Industry partnership with a focus on banking and finance in Calcutta, India <i>Ganguli Bhaswati</i> Promoting and Sustaining a Virile Statistical Laboratory in Nigeria's Premier University: Lessons from UI-LISA Experience <i>Olusanya Olubusoye</i> SUALISA Partnerships with Business, Government Agencies, and NGO's in Tanzania <i>Benedicto Kazuzuru</i> Discussant(s): <i>Eric Vance</i>

IPS131 Room :	Quantifying Uncertainty in Large and Complex Data Organiser(s): <i>Lederer Johannes</i> Chair(s): <i>Lederer Johannes</i> Methods for multiple testing error control on sequential data <i>Jay Bartroff</i> Modeling disease propagation in networks: Source-finding and influence maximization <i>Po-Ling Loh</i> On tight bounds for the Lasso <i>Sara Van De Geer</i> Randomization-based Inference with Complex Data need not be Complex! <i>Susan Murphy</i>
IPS136 Room : A. 1.16	Big Data and Big Opportunities: How the Minds of Statisticians Can Help Organiser(s): <i>Jiming Jiang, Partha Lahiri</i> Chair(s): <i>Thuan Nguyen</i> Prediction of Traffic Patterns and Travel Time using Big Data: A Small Area Estimation Approach <i>Cinzia Cirillo</i> prova <i>Jiming Jiang</i> Small Area model for Italian regional monthly estimates of young unemployed using Google Trends Data <i>Monica Pratesi</i> test <i>Danny Pfeffermann</i> Discussant(s): <i>Partha Lahiri</i>
IPS146 Room :	Bridging BFF (Bayesian/frequentist/fiducial) inferences in the era of data science Organiser(s): <i>Jan Hannig</i> Chair(s): <i>Edward Boone</i> Can fiducial inference bring new insights for model selection? <i>Jan Hannig</i> Combining diverse information sources with the II-CC-FF paradigm: Independent Inspection, Confidence Conversion, Focused Fusion <i>Céline Cunen</i> Lets Believe Belief Functions: A paradigm for multi-resolution probabilistic inference <i>Robin Gong</i> Discussant(s): <i>Min-Ge Xie</i>
IPS157 Room :	Data needs for SDGs monitoring and impact simulation Organiser(s): <i>Ayache Khellaf</i> Chair(s): <i>Ayache Khellaf</i> Data and approaches to monitoring and analysis of the Global Agenda for Sustainable Development Goals: The Case of Morocco <i>Hans Lofgren</i> Data and approaches to monitoring and analysis of the Global Agenda for Sustainable Development Goals: The Case of Morocco <i>Israel Rodarte</i> Improving impact simulations of public policies on SDGs achievement: the role of microsimulation models in a general equilibrium framework <i>Mariam El Joubari</i> Discussant(s): <i>Sabina Alkire</i>

<p>STS023 Room : A. -1.05</p>	<p>Evaluation of Bayesian Geospatial Methods to Generate Sub-national prediction of global health issues in Sub-Saharan Africa based on complex survey data Organiser(s): <i>Ngianga-Bakwin Kandala</i> Chair(s): <i>Ngianga-Bakwin Kandala</i> Bayesian Spatial-Temporal Modeling of HIV Risk among Adolescents in Africa <i>Ding-Geng Chen</i> Generating Cardiovascular Prevalence Estimates for Subnational Level Planning In South Africa. A Comparative Assessment and Validation of Disease Mapping Methods <i>Samuel Manda</i> Modelling and mapping of girls? Female Genital Mutilation/Cutting (FGM/C) in the context of economic, social, and regional disparities from Kenya Demographic and Health Surveys, 1998-2014 <i>Jose Kandala</i> Modelling Spatial Variations of HIV Prevalence in Nigeria: Implications for Effective Prevention Strategies <i>Samson Adebayo</i> Prevalence of Cardiovascular Conditions: Coronary Heart Disease and Stroke in South Africa: Systematic Review and Meta-Analysis <i>Nada Abdelatif</i> Spatial Analytics for insight into the Local Patterns of HIV Infections and Associated Social Risks in South Africa: Findings from Complex Surveys and Population Census Data <i>Njeri Wabiri</i> Spatial distribution of malnutrition among children under five in Nigeria: A Bayesian quantile regression approach <i>Ezra Gayawan</i></p>
<p>STS027 Room : A. -1.06</p>	<p>Big Data Analytics: An Insight for Policy and Decision Making Organiser(s): <i>Riyanti Saari</i> Chair(s): <i>Mohd Uzir Mahidin</i> BIG DATA INNOVATE OFFICIAL STATISTICS FOR BETTER DECISION MAKING <i>Siti Haslinda Mohd Din</i> Big Data, Official Statistics and Some Experience of the Australian Bureau of Statistics <i>Siu-Ming Tam</i> Cognitive Analytics Modernizes Government Policy Making and Analysis <i>George Ng</i> Experiences with the use of online prices in Singapore's Consumer Price Indices (CPI) <i>Chuanyang Foo</i> Malaysia's Digital Transformation: Adopting Big Data & Analytics to Drive Growth in All Sectors <i>Ir. Dr. Karl Ng</i> To Boldly Go Where Data Has Never Gone Before <i>David R. Hardoon</i> Discussant(s): <i>Mohd Uzir Mahidin</i></p>

<p>STS037 Room : A. -1.09</p>	<p>Determinants of International Migration in the Middle East and North Africa: Insights from the MED-HIMS Surveys Organiser(s): <i>Bouchra Bouziani</i> Chair(s): <i>Samir Farid</i> Characteristics of Labour Migration from Jordan <i>Ghaida Khasawneh</i> Impact of migrant remittances and investment on development: the case of the Tadla-Azilal region <i>Mohamed Mghari</i> Migration Intentions of Non-migrants in Egypt <i>Amal Nour</i> Sample Design for Surveys on International Migration: MEDHIMS Methods and Applications in Egypt and Jordan <i>Richard Bilsborrow</i> The MED-HIMS Research Programme: Scope and Methodology <i>Samir Farid</i> Discussant(s): <i>Richard Bilsborrow</i></p>
<p>STS041 Room : A. 1.17</p>	<p>Subnational Purchasing Power Parity in the 2017 ICP cycle for emerging economies Organiser(s): <i>Yafei Wang</i> Chair(s): <i>Dong Qiu</i> A Study on the Domestic Price Differences of Large Countries in International Comparison Program: An Evidence from China <i>Shujian Xiang</i> Estimating Absolute Poverty for China: What Do the New Data Tell Us? <i>Yan Wang</i> Estimating Absolute Poverty for China: What Do the New Data Tell Us? <i>Zhongshan Yang</i> How to modify the underestimation of purchasing power parity by statistical model and weighted adjustment: An Evidence from China <i>Yingmei Xu</i> Methodological Improvements of Spatial Price Differences for Large Emerging Economies <i>Yafei Wang</i> TBD <i>Jinping Wang</i> The Comparison Between International Comparison Program (ICP) and Eurostat-OECD PPP Programme <i>Qiang Xu</i> Discussant(s): <i>Prasada Rao</i></p>

<p>STS042 Room : A. 1.19</p>	<p>Potential Challenges to The Sustainable Development of emerging nations? Economic measurement Organiser(s): <i>Xuguang Song</i> Chair(s): <i>Xuguang Song</i> Can aggregation explain the high persistence of inflation in China? Empirical evidence from CPI disaggregate data <i>Guangming Lv</i> Labour Market Effects of Integration into GVCs <i>Xin Li</i> Spatial Impact of Economic Structure Reform on China's Energy Consumption <i>Nan Zhao</i> TBD <i>Heqing Wei</i> TBD <i>Qingwei Ji</i> TBD <i>Ying Li</i> The Divided Chinese Welfare System: Do Health and Education Change the Picture? <i>Qin Gao</i> The global flow-of-fund measurement using flow-of-funds matrices <i>Jinzhu Du</i> Discussant(s): <i>Nan Zhang</i></p>
<p>STS090 Room : A. -1.07</p>	<p>The use of leading indicators to anticipate economic activity Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Katherine Hennings</i> A NOWCASTING MODEL FOR CANADA: DO U.S. VARIABLES MATTER? <i>Michele Modugno</i> Are surveys indicators useful to anticipate Lebanese economy? <i>Sana Souaid Jad</i> External statistics and national financial accounts as leading indicators for the assessment of economic vulnerabilities <i>António Jorge Silva</i> Google Data in Bridge Equation Models for German GDP <i>Thomas Goetz</i> Nowcasting private consumption: traditional indicators, uncertainty measures, and the role of internet search query data <i>Javier Pérez</i> Discussant(s): <i>Fernando Alberto Rocha</i></p>
<p>STS094 Room : B. 1.04</p>	<p>Measuring poverty, precarity and social exclusion in Africa in terms of the Sustainable Development Goals 2030 (SDGs) Organiser(s): <i>Khalid Soudi</i> Chair(s): <i>Samira Mizbar</i> HUMAN INCLUSION AS CAPABILITY EXPANSION <i>Iris Macculi</i> Measurement and Socio-Demographic Determinants of Child Multidimensional Poverty in Senegal <i>Bouba Housseini</i> Multidimensional Poverty Reduction among Countries in Sub-Saharan Africa <i>Sabina Alkire</i> Note on poverty and social and territorial inequalities in Morocco in the light of the results of ENCDM 2014 <i>Mustapha Zirouali</i> Sustainable Development Goals: Morocco as an Example for Africa <i>Anna Fruttero</i> Tools for geographic and demographic targeting of poverty: <i>Yassine Abahamid</i> Discussant(s): <i>Belkacem Abdous</i></p>

<p>OR-A02 Room : A. -1.11</p>	<p>Applications 02 Analysis of multinomial counts with joint zero-inflation, with an application to health economics <i>Alpha Oumar Diallo</i> Determining sample sizes for assessing inter-observer reliability for direct observational studies in health care <i>Ling Li</i> Interaction based random elastic net for cancer driver gene selection <i>Heewon Park</i> Outlier detection in survival analysis: an application to ovarian cancer data <i>Eunice Trigueirao</i> Right endpoint: testing and estimation with application to human lifespan <i>Maria Isabel Fraga Alves</i> Two, three, or many? Estimation of the shared descent of genome. <i>Elizabeth Thompson</i> Use of generalized additive models and autoregressive models to predict zoonotic cutaneous leishmaniasis in central Tunisia <i>Khouloud Talmoudi</i></p>
<p>OR-B14 Room : A. 1.13</p>	<p>Methods and Theory 14 Finite-Sample Comparison of Integrated Variance Estimators <i>Vladimir Holy</i> Interpoint Distances of Negative Multinomial Observations <i>Yu Song</i> On Predictive Density Estimation under S-Hellinger Distance and Alpha-Divergence Loss <i>Younes Ommame</i> Product of independent generalized gamma distribution with application <i>Vusi Bilankulu</i> Sensitivity Analysis of Non-Gaussianity by Projection Pursuit <i>Yufen Huang</i> The Development of a Statistical Framework for Analyzing Multiple Time Series <i>Xin Ma</i> Vine based modeling of multivariate volatility time-series <i>Yarema Okhrin</i></p>
<p>OR-F03 Room : A. 1.14</p>	<p>Official Statistics 03 Multidimensional Poverty in Moroccan regions: Why does Education Matter? <i>Sanaa Cheddadi</i> Poverty in Jordan <i>Maha Dawas</i> Social Mobility and Mortality in southern Sweden (1813-1910): a Cox model application <i>Paolo Emilio Cardone</i> STUDIES ON STATISTICAL HOUSING CONDITIONS FORDISABILITIES PERSONS <i>Paulo Tadeu Meira E De Oliveira</i> Supporting Abu Dhabi?s Executive Decision Makers ? SCAD?s Executive Dashboard <i>Muna Al Suwaidi</i> The effect of the working correlation on fitting models to longitudinal data <i>Alan Welsh</i></p>

OR-G01 Room : C. 0.05	Survey Statistics 01 Adaptive Procedures for Optimum Observed Information <i>Adam Lane</i> Clusterwise methods, past and present <i>Gilbert Saporta</i> Longitudinal Weights for a Partially Overlapping Sample: The Case of the Brazilian Labour Force Survey <i>Antonio Teixeira Junior</i> Producing a Public Use File from the 2015 National Survey on Drug Use and Health <i>Neeraja Sathe</i> Testing parameter change in general integer-valued time series <i>Mamadou Lamine Diop</i> Unified estimation of densities on bounded and unbounded domains <i>Carlos Martins-Filho</i> Weak Laws of Divergence Measures Estimators Using Wavelets Theory <i>Amadou Ba</i>
---------------------------------	---

<p>IPS009 Room : B. 0.02</p>	<p>Looking for the Holy Grail: measuring income, consumption, and wealth simultaneously at the household level Organiser(s): <i>Sebastian Perez-Duarte</i> Chair(s): <i>Aurel Schubert</i> Always look at the bright side of statistics: challenges in measuring the joint distribution of Income, Consumption, Wealth <i>Pierre Lamarche</i> Measuring Income, Spending and Assets and Debts in Households Surveys <i>Thomas F. Crossley</i> Survey-Based Estimates of Saving and Wealth Accumulation <i>John Sabelhaus</i> The estimation of total consumption in the Eurosystem Household Finance and Consumption Survey <i>Sebastian Perez-Duarte</i></p>
<p>IPS025 Room :</p>	<p>Dimensions of Data Sharing Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Charles Thomas</i> Effective data sharing as an indispensable element of mature data management <i>Ekaterina Prokunina</i> Sharing information with financial authorities. The case of Banco de Mexico <i>Alejandro Mario Alejandro Gaytan</i> test <i>Sebastian Huegelschaeffer</i> The international network of Central Banks for exchanging experiences on the sharing of granular data <i>Paulo Guimaraes</i></p>
<p>IPS028 Room :</p>	<p>Robust Statistical Methods for High-dimensional Data with Engineering and Environmental Applications Organiser(s): <i>Ying Sun</i> Chair(s): <i>Carolina Euan</i> Analyzing high-dimensional functional data <i>Juan Romo</i> Monitoring and modelling complex data indexed in space and time <i>Alessandro Fasso</i> Total Variation Data Depth: Properties and Applications <i>Ying Sun</i></p>
<p>IPS029 Room :</p>	<p>New methodologies for functional data analysis Organiser(s): <i>Ferraty Frederic</i> Chair(s): <i>Ferraty Frederic</i> Functional Data Analysis by Matrix Completion <i>Panaretos Victor</i> Interaction Models for Multivariate Functional and Longitudinal Data <i>Hans-Georg Mueller</i> Some New Issues on Functional General Linear Model <i>Sarda Pascal</i> Discussant(s): <i>Jeff Goldsmith</i></p>

<p>IPS066 Room : A. 1.16</p>	<p>The renewed/modernised institutional framework of the National Statistical Systems in the enlargement and ENP countries Organiser(s): <i>Claudia Junker</i> Chair(s): <i>Pieter Everaers</i> TBD</p> <p>The impact of the Code of Practice on quality of statistics: Experience of Azerbaijan <i>Yusif Yusifov</i></p> <p>The renewed/modernised institutional framework of the national statistical systems in the enlargement and European Neighbourhood Policy countries <i>Claudia Junker</i></p> <p>Transformation of the institutional framework of Statistical System of Montenegro <i>Gordana Radojevic</i></p>
<p>IPS074 Room :</p>	<p>Practical and Innovative Approaches Using Master Sampling Frames for Agricultural Surveys Organiser(s): <i>Cristiano Ferraz</i> Chair(s): <i>Cristiano Ferraz</i></p> <p>Applying Latest Innovations under Small Scale Farming to Meet the Global Strategies for Improving Agricultural and Rural Statistics <i>Sebastien Manzi</i></p> <p>Multiple Frames Design Efficiency in Practice <i>Cristiano Ferraz</i></p> <p>Testing Master Sampling Frames in Brazil, Nepal and Rwanda <i>Jacques Delincé</i> Discussant(s): <i>Javier Gallego</i></p>
<p>IPS075 Room :</p>	<p>Using Chain Event Graphs to model and understand discrete processes Organiser(s): <i>Jane Hutton</i> Chair(s): <i>Freedom Gumedze</i></p> <p>Causal discovery and inference with Chain Event Graphs <i>Peter Thwaites</i></p> <p>Chain Event Graphs: a review of semantics, inference, model selection and interpretation. <i>Jane Hutton</i></p> <p>The Dynamic Chain Event Graph <i>Rodrigo Collazo</i> Discussant(s): <i>Eva Riccomagno</i></p>
<p>IPS076 Room : A. -1.08</p>	<p>Policy use of macroeconomic indicators Organiser(s): <i>John Verrinder</i> Chair(s): <i>Silke Stapel-Weber</i></p> <p>Opening up indicators as boundary objects: fostering greater usefulness of indicators statistics entrepreneurship <i>Markku Lehtonen</i></p> <p>Relevance of indicators for policy making <i>Barbara Kurkowiak</i></p> <p>The intended and unintended consequences of ESA 2010 <i>Michael Connolly</i> Discussant(s): <i>Peter Van De Ven</i></p>

<p>IPS078 Room : C. -1.01</p>	<p>Innovative Approaches to Addressing (or Avoiding) Survey Non-Response Organiser(s): <i>Linda Young</i> Chair(s): <i>Linda Young</i> A holistic approach to eliminate the problem of nonresponse in surveys <i>Peter Vig Jensen</i> Potential Use of UAS Systems for Enumerating Area Frame Segments for Agricultural Statistics <i>Jan Dempewolf</i> Stemming the Rising Tide of Nonresponse <i>Barbara Rater</i> Using real-time paradata analysis and response targeting in CAPI surveys <i>Michael Wild</i> Discussant(s): <i>Michael Steiner</i></p>
<p>IPS082 Room : A. 1. 18</p>	<p>Using web scraping for data collection in official statistics ? challenges and opportunities Organiser(s): <i>Bernd Stoertzbach</i> Chair(s): <i>Thomas Riede</i> Massive Web Scraping of Enterprises Web Sites: Experiences and Solutions <i>Monica Scannapieco</i> Web scraping job portals: Are online job portal data a suitable data source for job vacancy statistics? <i>Martina Rengers</i> What should be the role of web scraping within official statistics? <i>Nigel Swier</i> Discussant(s): <i>Thomas Körner</i></p>
<p>STS007 Room : A. -1.05</p>	<p>Open the Data Revolution: Measuring the openness of national statistical systems and planning for improvements Organiser(s): <i>Misha Belkindas</i> Chair(s): <i>Misha Belkindas</i> How Open Are Official Statistics? Three Indexes of Data Coverage and Openness <i>Eric Swanson</i> Open Data and National Statistical Systems <i>Graham Eele</i> THE FIRST RESULTS OF ODIN.RUSSIA PROJECT <i>Alexey Ponomarenko</i> Discussant(s): <i>Oliver Chinganya</i></p>
<p>STS051 Room : A. 1.19</p>	<p>Towards a Digital Communication Strategy for Statistics Organiser(s): <i>Matthias & Trevor Rumpf & Fletcher , Per Nymand-Andersen</i> Chair(s): <i>To Be Confirmed To Be Confirmed</i> Modernising statistics: Moving towards a digital communication strategy Safeguarding trust <i>Per Nymand-Andersen</i> Reinforcing the cooperation within the European Statistical System: the way to face the digital revolution <i>Mariana Kotzeva</i> TBD <i>Charles Leyeka Lufumpa</i> Towards a Digital Communication Strategy for Statistics <i>Martine Durand</i> What is data <i>Helen North</i></p>

<p>STS066 Room : B. 1.04</p>	<p>Statistical models and applications of heavy tailed variables and processes Organiser(s): <i>Nourddine Azzaoui</i> Chair(s): <i>Tomoko Matsui</i> An Enhanced Empirical Mode Decomposition <i>Marta Campi</i> Extremes of events with heavy-tailed inter-arrival times <i>Peter Straka</i> Modeling interference with alpha-stable distributions and copulae for receiver design in Wireless Communications <i>Laurent Clavier</i> Spectral characterization of the non-independent increment family of Alpha-Stable processes that generalize Gaussian process models. <i>Gareth Peters</i> TBD <i>Ido Nevat</i> Discussant(s): <i>Arnaud Guillin</i></p>
<p>STS068 Room : B. 1.05</p>	<p>Challenges in Experimental Design and Statistical Quality Control Organiser(s): <i>Amílcar Oliveira, Teresa Oliveira</i> Chair(s): <i>Amílcar Oliveira</i> Application of Statistical Process Control on Water Supply Networks <i>Elisa Henning</i> New challenges on BIBD and Related Designs: Exploring R and R-Studio <i>Teresa Oliveira</i> Recent Developments in Phase-II Monitoring of Location and Scale - An Overview and Some New Results <i>Amitava Mukherjee</i> Revisiting Control Charts for Attributes applied on e-learning classes monitoring <i>Amílcar Oliveira</i> TBD <i>Karl Moder</i> Discussant(s): <i>Teresa Oliveira</i></p>
<p>STS081 Room : A. -1.06</p>	<p>Measuring social protection and decent employment in agriculture and rural areas Organiser(s): <i>Piero Conforti</i> Chair(s): <i>Piero Conforti</i> Decent Work Indicators for agriculture and rural areas Conceptual issues, data collection challenges and possible areas for improvement <i>Carlos Oya</i> TBD <i>Armando Barrientos</i> TBD <i>Erdgin Mane</i> Discussant(s): <i>Natalia Winder-Rossi, Peter Wobst</i></p>
<p>STS088 Room : A. 1.17</p>	<p>SESSION TITLE: Stochastic Modeling with Applications in Biomedical Science TITLE (and authors) OF PRESENTATIONS: Residual based tree and ensemble for clustered binary data (Mousumi Banerjee) Modeling and analysis of current status competing risks data (Organiser(s): <i>Jane Harvill</i> Chair(s): <i>Mandy Hering</i> MEASURING DIFFERENTIAL TREATMENT BENEFIT ACROSS MARKER SPECIFIC SUBGROUPS: THE CHOICE OF OUTCOME SCALE <i>Jaya Satagopan</i> Modeling and analysis of current status competing risks data <i>P.G. Sankaran</i> Residual-based Tree and Ensemble for Clustered Binary Data <i>Mousumi Banerjee</i></p>

STS099 Room : A. -1.07	Statistical thinking through student work with real-world data leading to an understanding of evidence-based policy decision and the role of statistics in civil society. Organiser(s): <i>Mary Gray</i> Chair(s): <i>Mary Gray</i> TBD <i>Kelly Mcconville</i> TBD <i>Olga Cordero-Brana</i> Writing and using web-based apps for student data collection <i>Donna Dietz</i> Discussant(s): <i>Ana Donaldson</i>
STS818 Room : A. -1.09	Quality of Multisource Statistics Organiser(s): <i>Niels Ploug</i> Evaluating the Quality of Administrative Data as Input for Official Statistics (Quality of Multisource Statistics) <i>Regin Reinert</i> KOMUSO - ESSnet on Quality of Multisource Statistics <i>Niels Ploug</i> Output Quality of Multi-Source Statistics <i>Danute Krapavickait?</i> Quality measures and indicators of frames for social statistics arising from multiple sources <i>Lee Zhang</i>
OR-B07 Room : A. -1.11	Methods and Theory 07 Asymptotic properties of nonparametric conditional distribution estimators in the model of competing risks <i>Kossi Gneyou</i> Condensing information from multiple seasonality tests with random forests <i>Karsten Webel</i> Convergence of multi-centres in general spaces: a useful property in classification <i>Kalev Pärna</i> Estimation of Relations between Latent Variables in the Case of Incomplete Groups <i>Katrin Kraus</i> Modeling Dependence between Exchange rate and Short-term Interest rate: Statics Versus Time-Varying Copula <i>Laila Ait Hassou</i> Statistical Inference for Line Segment Process <i>Ko Abe</i>
OR-B08 Room : A. 1.13	Methods and Theory 08 Augmentation of a filtration with a stochastic process <i>Leo Neufcourt</i> Exploring the Dynamic Relationship between CPI and PPP with International Panel Data <i>Menggen Chen</i> Forecast combination with state-dependent models: equity premium prediction <i>Luiz Hotta</i> Nonnegative Matrix Factorization: a (Semi-) Parametric Statistical View <i>Melanie Zetlaoui</i> SELECTING TYPE-I AND TYPE-II ERROR PROBABILITIES IN HYPOTHESIS TESTING WITH GAME-THEORY <i>Mehmet Sahinoglu</i> Sequential bagging approach to the regression framework <i>Mehdi Soleymani</i>

<p>OR-B09 Room : A. 1.14</p>	<p>Methods and Theory 09 A Generally Weighted Moving Average chart for Time Between Events <i>Niladri Chakraborty</i> Multiple change points detection in weakly dependent random variables using filtered derivative and false discovery rate method. <i>Mohamed Elmi</i> Optimal Pseudo-Gaussian Test for Random Coefficients in Multiple Regression Models <i>Mohamed Fihri</i> Recycled Estimates for Linear Regression Models <i>Benzion Boukai</i> using Extrem Value theory to test for outliers <i>Nathaniel Gbenro</i></p>
<p>OR-B10 Room : C. 0.05</p>	<p>Methods and Theory 10 A Mathematical Approach to the Probability Interpretation and to the Selection of Statistic Methods <i>Paolo Rocchi</i> Beyond GSBPM - Statistics Centre - Abu Dhabi <i>Rabaa Baniyas</i> Comparing skew-normal linear mixed models with mistimed covariate via the observed deviance information criterion <i>Oludare Ariyo</i> Deviance residuals based sparse PLS regression for censored data <i>Philippe Bastien</i> Stable Randomized Generalized Autoregressive Conditional Heteroskedastic Models <i>Pedro Morettin</i> Sustainable development on commuting: merging new data to enrich official statistics <i>Pasi Piela</i></p>

<p>PP-A06 Room : A. 0.21</p>	<p>Applications 06 A Joint modelling approach to access the association between child and adult HIV infections in Kenya, having adjusted for covariates <i>Elvis Muchene</i> A statistical perspective to biomarkers as tools for decision making in early phase clinical development: the example of COPD <i>Ziad Taib</i> Addressing the Divide in Behavioural Cardiology using Bayesian Canonical Correlation Analysis for the Canadian Community Health Surveys <i>Jalila Jbilou</i> Coverage Bias in Telephone Surveys in Palestine <i>Hassan Abuhassan</i> Determinants of Longevity Risk in European country ? PCA approach <i>Grazyna Trzpiot</i> Disabilities people and unitholders races: comparative studies in Brazil with diagrams tree uses <i>Paulo De Oliveira</i> Estimating poverty and inequality indicators using a non parametric microsimulation tool <i>Omar Sene</i> Finding profiles on the energetic sector of G20 countries from 1990 <i>Karina Gibert</i> Income related inequality and Burden of Overweight/obesity in India: A Decomposition analysis <i>Mohd Shannawaz</i> Measuring "Decent Work" in Egypt <i>Mostafa Younes</i> MODELING GROWTH OF BIOLOGICAL PROCESSES USING ALTERNATIVE NONLINEAR GROWTH MODELS <i>Oluwafemi Oyamakin</i> Multivariate Elliptically Contoured Distributions for Discrimination and Classi?cation. <i>Akinlolu Olosunde</i> New Poisson Regression Model as a Tool for Measuring Incidence of Maternal Death: Case Study of Ondo State Specialist Hospital, Akure, Nigeria <i>Olabimpe Aladeniyi</i> Nonparametric confidence intervals for tail dependence based on copula <i>Seck Cheikh</i> Remuneration statistics from administrative data for South Africa <i>Elizabeth Gavin</i> Using Knowledge Discovery approach to understand life conditions in Ecuador <i>Karina Gibert</i> Using Nesstar Publisher Tool and GSBPM Model in Dissemination Metadata for statistical survey to make it more accessible for all users <i>Waleed Mohamed</i></p>
---	--

IPS007 Room :	Advances in Reliability and Risk with Novel Applications Organiser(s): <i>Nalini Ravishanker</i> Chair(s): <i>Nalini Ravishanker</i> Adversarial Issues in Life Testing <i>Refik Soyer</i> Contributions to Multistate Transition Modeling <i>Vijay Nair</i> Service Life Prediction of Field-Exposed Units Based on Laboratory Accelerated Degradation Test Data <i>William Meeker</i>
IPS024 Room :	Official statistics in the age of big data Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Aurel Schubert</i> Adopting Big Data Technologies in the Production of Official Statistics: Opportunities, Experiences and Lessons Learned <i>Antonino Virgillito</i> Assessing the use of Google Trends to predict credit developments <i>Edwige Burdeau</i> Improving Financial Information Processing: A case for a Big Data Architecture <i>Mario Gaytan</i> Measuring Employment Using Big Data on Electronic Salary Payments Dr. Anil Kumar Sharma* Adviser, Department of Statistics & Information Management, Reserve Bank of India, Mumbai, India ? <i>anilksharma@rbi.org.in</i> Ravi Shankar Director, Department of Statis <i>Anil Kumar Sharma</i>
IPS027 Room :	Perfect Simulation Organiser(s): <i>Wilfrid Kendall</i> Chair(s): <i>Wilfrid Kendall</i> Contracting Couplings for (perfect) Estimation and Computational Stein's Method <i>Sebastian Vollmer</i> Linear time perfect simulation for Markov random fields <i>Mark Huber</i> Omnithermal Perfect Simulation <i>Stephen Connor</i> Discussant(s): <i>Nancy Lopes Garcia</i>
IPS036 Room :	The Impact of the Hegire Calendar in Time Series Analysis; an international comparison Organiser(s): <i>Dominique Ladiray</i> Chair(s): <i>Dominique Ladiray</i> APPLICATION DES CORRECTIONS DES EFFETS DES VARIATIONS SAISONNIERES ET DES JOURS OUVRABLES (CVS-CJO) SUR LES DONNEES DE LA BCEAO. <i>Mahaman Tahiri Hamani</i> Calendar effect correction in the collinearity context: case of Morocco <i>Ali El Guellab</i> Effets calendaires sur quelques séries sénégalaises <i>Mamadou Daffe</i> les effets du mois de ramadan sur les prix Á la consommation cas du senegal <i>Modou Ndour Faye</i>

IPS045 Room :	Computer-intensive Bayesian methods for analyzing biomedical data: A blissful marriage, or some midlife crisis? Organiser(s): <i>Dipankar Bandyopadhyay</i> Chair(s): <i>Michele Guindani</i> Bayesian Nonparametric Graph Clustering <i>Veera Baladandayuthapani</i> Nonparametric spatial models for clustered ordered periodontal data <i>Dipankar Bandyopadhyay</i> Novel Bayesian Methods for Skewed Biomedical Response Data <i>Debajyoti Sinha</i> On Bayesian Modeling and Inference for Massive Spatial-Temporal Datasets <i>Sudipto Banerjee</i>
IPS081 Room : A. 1.16	Developing Composite Indicators: from academics to practice Organiser(s): <i>Stefan Sperlich</i> Chair(s): <i>Stefan Sperlich</i> Allowing composite indicators to learn <i>Jan-Egbert Sturm</i> Measuring Well-being: Human Development Approach <i>Milorad Kovacevic</i> On the Measurement and Forecasting of Business Cycles and Growth Cycles in the Global Economy <i>Abdul A. Erumban</i>
IPS092 Room : A. 1.18	Do modern statistical institutes need modern legislation? Organiser(s): <i>Gemma Van Halderen</i> Chair(s): <i>Gemma Van Halderen</i> Do modern statistical institutes need modern legislation? Case of Finland <i>Marjo Bruun</i> Do modern statistical offices need modern legislation? The New Zealand Experience in modernizing its statistics legislation. <i>David Alsop</i> Is modern legislation the key to unlocking better statistics for better decisions? <i>Rob Bumpstead</i> Modernisation of legislation in the European Statistical System and beyond <i>Pieter Everaers</i> Discussant(s): <i>Nicola Shearman</i>
IPS142 Room :	Big data and visualization: Challenges and opportunities Organiser(s): <i>Paulo Rodrigues</i> Chair(s): <i>Patrick Groenen</i> Challenges for time series in the world of big data <i>Paulo Rodrigues</i> Robust SNP-based estimation of heritability <i>Vanda Lourenço</i> Sparse Bayesian time-varying covariance estimation in many dimensions <i>Gregor Kastner</i> Discussant(s): <i>Genevera Allen</i>
STS014 Room : A. -1.07	Recent Developments in Dynamic Treatment Regimes Organiser(s): <i>Yair Goldberg</i> Chair(s): <i>Yair Goldberg</i> Change-point Detection for Infinite Horizon Dynamic Treatment Regimes <i>Malka Gorfine</i> Estimating Dynamic Treatment Regimes in Mobile Health Using V-learning <i>Daniel Lockett</i> On Control Charts Run in Parallel <i>Mosher Pollak</i>

STS021 Room : A. -1.05	From big data to Smart Statistics Organiser(s): <i>Michail Skaliotis</i> Chair(s): <i>Mariana Kotzeva</i> Glocalised Smart Statistics and Analytics of Things - Core Challenges and Key Issues for Smart (Official) Statistics at the Edge <i>Diego Kuonen</i> ICT Enables Data Analytics towards Smarter Statistics <i>Karabet Krikorian</i> The role of ontologies for official statistics <i>Monica Scannapieco</i> Trust in Smart Statistics <i>Evelyn Ruppert</i> Discussant(s): <i>Hetan Shah</i>
STS030 Room : A. -1.06	Building and financing statistical capacity to measure SDG?s Organiser(s): <i>Misha Belkindas</i> Chair(s): <i>Haishan Fu</i> Financing the Data Revolution: How much it cost to meet the data demand of the SDG's <i>Misha Belkindas</i> Priorities of statistical capacity building in distributed models of NSS in modern ICT environment <i>Jozef Olenski</i> TBD <i>Alexey Ponomarenko</i> Discussant(s): <i>Heli Mikkela</i>
STS032 Room : A. -1.09	THE BENEFITS OF REGIONAL PROGRAMS/INITIATIVES ON STATISTICAL COOPERATION: SOME EVIDENCES DRAWN FROM THE FIELD Organiser(s): <i>Thierry Paccoud</i> Chair(s): <i>Jan Robert Suesser</i> AFRISTAT's action in the statistical development of its member states <i>Paul Henri Nguema Meye</i> ASEAN Community Statistical System: Two Decades of Cooperation in Statistics <i>Elizabeth Alarilla</i> Regional cooperation in the MED countries: boosting collaboration and exchanges within and among the countries for the benefit of all <i>Thierry Paccoud</i> TBD <i>Hasnae Fdhil</i> Why Regional Cooperation in Statistics: A Perspective from Turkey <i>Alper Gucumengil</i>
STS033 Room : A. 1.17	The use of new technologies, new techniques and new data sources for transport and mobility statistics in the Mediterranean region. Organiser(s): <i>Bouazza Bouchkhar</i> Chair(s): <i>Thierry Coulet</i> Jordan Transport Sector Data Warehouse Challenges and Key Issues <i>Osama Karadsheh</i> Proposed Architecture for dealing with transport Big Data via Cooperation Between Different Transport Systems <i>Ayman Ghazy</i> The use of open, company and big data in transport statistics: examples from an international organization <i>Rachele Poggi</i> Transport statistics in Palestine new technology new technique and new data sources against UN principals and the best practice and ethics <i>Hani Alahmad</i>

<p>STS034 Room : A. 1.19</p>	<p>Population Size Estimation in Official Statistics Organiser(s): <i>Bart Bakker, Tiziana Tuoto</i> Chair(s): <i>Bart Bakker</i> A unified framework for deduplication, record linkage and inference for linked data <i>Andrea Tancredi</i> An overview of population size estimation where linking registers results in incomplete covariates, with an application to mode of transport of serious road casualties <i>Peter Van Der Heijden</i> Extending Dual System Estimation (DSE) methods to explore estimates of population inflows and outflows <i>John Dunne</i> Two improvements of the method for population size estimation <i>Tiziana Tuoto</i> Discussant(s): <i>Peter Van Der Heijden</i></p>
<p>STS713 Room : B. 1.04</p>	<p>Quality management in National Statistical Offices Organiser(s): <i>Jean-Michel Durr</i> Chair(s): <i>Margaret Mbogoni</i> Implementation of Quality Management - Palestine Case- and its impact on Quality Dimensions <i>Ali Hussein</i> ISO based Process Model (Map) _ a good tool for Standardization, Quality Documentation and Improvement. <i>Laura Luksaite-Balakauskiene</i> Progress in Implementing Quality Assurance Reform at INEGI <i>Gloria Rubio Soto</i> Recent Practices in Quality Assurance in National Statistical Offices <i>Jean-Michel Durr</i></p>
<p>OR-B03 Room : A. -1.11</p>	<p>Methods and Theory 03 Covariate-Adjusted Response-Adaptive Designs for Weibull Distributed Survival Responses <i>Ayon Mukherjee</i> Introducing hedonic quality adjustment in the official price statistics: Evidence from the Tunisian smartphones market <i>Chiraz Karamti</i> Modernisation of the European Agricultural Statistics System (EASS): Strategy for Agricultural Statistics 2020 and beyond <i>Christine Wirtz</i> Nonparametric Tests of Regularity Conditions of Extreme Value Theory <i>Cherif Traore</i> Optimal Allocation with Multivariate Extremes Value Theory <i>Abdellah Belhajjam</i> Robust logistic quantile regression models using skewed heavy-tailed distributions <i>Christian Galarza</i></p>

<p>OR-B11 Room : A. 1.13</p>	<p>Methods and Theory 11 Creating a National Statistical Institute in a federalised country: the case of Statistics Flanders <i>Roeland Beerten</i> Defuzzification of a fuzzy hypothesis decision by the signed distance method <i>Redina Berkachy</i> Efficient estimation of large approximate factor models using sparse principal components analysis <i>Rachida Ouysse</i> Geometric dispersion models with quadratic v-functions <i>Rahma Abid</i> On the construction of exponential families of Wishart distributions on convex cones <i>Salha Mamane</i> Preconceived ideas and the interpretation of the p-value as evidence against the null hypothesis. A randomized trial <i>Ronnie Pingel</i></p>
<p>OR-B12 Room : A. 1.14</p>	<p>Methods and Theory 12 Comparison of the confidence bands for quantile residual life function with right-censored data <i>Yunchan Chi</i> Hierarchical kernel applied to mixture model for the classification of binary predictors <i>Seydou Nourou Sylla</i> How the UK Office for National Statistics is Embracing Data Science <i>Solange Correa-Onel</i> Occupation times problem of certain self-similar processes related to the fractional Brownian motion <i>Soufiane Moussaten</i> Parameter inestimability and degrees of freedom in hierarchical loglinear models for sparse contingency tables with zero counts <i>Stephen Haslett</i> Testing missingness in the case of categorical data. <i>Serquei Rouzinov</i></p>
<p>OR-D01 Room : C. 0.05</p>	<p>Statistical Education 01 Geometric perspectives on student performance at the Copperbelt University in Zambia <i>Niel Le Roux</i> Scoring System for Graduate School Admissions Using Logit Models <i>Josefina Almeda</i> Teaching Optimization of educational expenditure <i>Mamadou Youry Sall</i> Using chatbots to engage introductory statistics students in qualitative research <i>Michael Bulmer</i></p>

<p>IPS003 Room :</p>	<p>ISI invited session with Statistical Societies Presidents - IBS and IMS Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> A Brief History of the IMS (Institute of Mathematical Statistics) <i>Richard Davis</i> The International Biometric Society: an ISI partner in worldwide research and education <i>Elizabeth Thompson</i></p>
<p>IPS015 Room :</p>	<p>CSDA Journal Session Organiser(s): <i>Erricos Kontoghiorghes., Jae C Lee</i> Chair(s): <i>Chun-Houh Chen</i> Developing an Web-based Graphical Software K-Plots for Elementary Statistics Education <i>Jung Lee</i> Partial Least Squares and Composite-based Approaches to Predictive Path Modeling: History, Methodological Foundations and Recent Advances <i>Pasquale Dolce</i> Random Forests for Big Data <i>Jean-Michel Poggi</i></p>
<p>IPS145 Room :</p>	<p>Bernoulli Journal Special Invited Session Organiser(s): <i>Holger Dette, Sara Van De Geer</i> Chair(s): <i>Mark Podolskij</i> Quantile Spectral Analysis for Locally Stationary Time Series <i>Marc Hallin</i></p>
<p>IPS162 Room :</p>	<p>ISI Jan Tinbergen Award Winners Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Francisco Neto</i> Modelling time series of counts with deflation or inflation of zeros <i>Marcelo Pereira</i> Robust logistic quantile regression models using skewed heavy-tailed distributions <i>Eduardo Morales Galarza</i></p>

<p>PO-A17 Room : A. 0.20</p>	<p>Applications 17 Research on the Monitoring System for Beijing's Pilot Program for Wider Opening-up in the Service Sector <i>Zhou Junling</i> Research on Comprehensive Statistics on Regional Economic Development <i>Li Bin</i> The Economic Impact of SEZs in Shanghai <i>Yuqing Zhang</i> Thinking of the Preparation Work for the Balance Sheet of Natural Resources ?Taking Hubei Province as an Example <i>Xiang Deng</i> Use of new communication technologies in the behavioral and cognitive awareness of road users: towards safe driving <i>Halima Ettahiri</i> USING THE REAL ESTATE PRICE INDEX TO DETECTING A SPECULATIVE BUBBLE : EVIDENCE OF MOROCCO <i>Zakaria Firano</i></p>
<p>PO-E03 Room : A. 0.20</p>	<p>Business & Industry 03 Predictive Analysis Applied in the Field of Cosmetics Industry <i>Youssef Idelcaid</i> The simultaneous multivariate Hawkes-type point processes and their application to financial markets <i>Daisuke Kurisu</i></p>
<p>PO-F04 Room : A. 0.20</p>	<p>Official Statistics 04 Education in Egypt from MDGs to SDGs <i>Souad Kowashty</i> Measuring export performance and competitiveness : a constant market share analysis of Moroccan exports <i>Lina Tazi</i> Statistics in a post-truth society. Determinants of confidence, independence and usage of official statistics <i>Serge Allegrezza</i> Towards Constructing Egyptian Consumer Confidence Index (ECCI) based on Social Media Sentiments <i>Rojan Asem Nafea</i></p>

<p>IPS008 Room : A. 1.16</p>	<p>PEACE, JUSTICE AND STRONG INSTITUTIONS: MEASURING SDG16 Organiser(s): <i>Mario Palma</i> Chair(s): <i>Mario Palma</i> Importance of the use of governance statistics: case of the Praia Group <i>Oswaldo Borges</i> Measuring the SDG's Goal 16. Are we ready? The mexican context. <i>Adrián Franco Barrios</i> Measuring trust, governance, participation, public debate, and people's rights and responsibilities: The Australian experience <i>Michael Smedes</i> Peace, Justice and Strong Institutions: Measuring SDG16 <i>Nadim Ahmad</i> Discussant(s): <i>Angela Me</i></p>
<p>IPS053 Room : A. -1.02</p>	<p>Does the production of official statistics need to be a separate branch of government or should it remain within the executive branch of government? Organiser(s): <i>Andreas Georgiou</i> Chair(s): <i>Hallgrímur Snorrason</i> A statistical system integrated in the national central administration: the French experience <i>Jean-Luc Tavernier</i> Statistics in politics: From skiing on the broad and smooth to the serrated side of the saw <i>Pali Lehohla</i> The production of official statistics needs to be a separate branch of government <i>Andreas Georgiou</i> What does an independent statistical agency mean in practice? <i>Dennis Trewin</i> Discussant(s): <i>Gerry O' Hanlon</i></p>
<p>IPS056 Room : C. -1.01</p>	<p>Challenges of Promoting Statistical Literacy in Africa. Organiser(s): <i>Olusanya Olubusoye</i> Chair(s): <i>Olusanya Olubusoye</i> A Review of Statistical Education in Nigeria and the Challenges. <i>Pamela Achinonu</i> Involvement of Private Universities in Statistical Education in Nigeria: Prospects and Challenges <i>Modupe Okewole</i> The Roles of National Statistical Offices in Promoting Statistical Education in Africa <i>Oluwaseun Otekunrin</i> Use of Modern Technology for Teaching Statistics in Nigeria: Progress and Challenges <i>Ademola Sodipo</i> Discussant(s): <i>Adedayo Adepaju</i></p>
<p>IPS057 Room :</p>	<p>Small Area Estimation in Developing Countries Organiser(s): <i>Monica Pratesi</i> Chair(s): <i>Monica Pratesi</i> Small Area Estimation in Agriculture: The Tanzania Experience <i>Stefano Marchetti</i> Spatial disaggregation and small area estimation for surveys in developing countries: Challenges, problems and perspectives <i>Carola Fabi</i> The agriculture censuses in the 21st century and link with population census with use of new technology: the case of Ethiopia <i>Aberash Abaye</i> Use of Small area estimation for rare crops data in agricultural statistics: case of Burkina Faso and Brazil <i>Flavio Bolliger</i> Discussant(s): <i>Emily Berg</i></p>

<p>IPS072 Room :</p>	<p>Bayesian models for complex structures Organiser(s): <i>Subhashis Ghoshal</i> Chair(s): <i>Sujit Sahu</i> A Bayesian nonparametric longitudinal model for predicting the temporal progression of Alzheimer's disease <i>Sara Wade</i> Analyzing Ozone Concentration by Bayesian Spatio-temporal Quantile Regression <i>Subhashis Ghoshal</i> Bayesian Estimation of Optimal Differencing Operator in Cointegrated Systems <i>Anindya Roy</i> Dependent random measures in Bayesian Nonparametrics <i>Igor Pruenster</i> Discussant(s): <i>Isadora Villalobos</i></p>
<p>IPS083 Room :</p>	<p>New Approaches for Agricultural Statistics Organiser(s): <i>Michael Steiner</i> Chair(s): <i>Michael Steiner</i> Combining Administrative and Geo-spatial data for Agri-Environmental Policy Analysis <i>Marca Weinberg</i> Efficacy of Mobile Mapping Technology for the June Area Survey <i>Wendy Barboza</i> How to analyse productivity and competitiveness of the Hungarian Agriculture <i>Eva Laczka</i> Modernization of Agricultural Statistical Systems through InteGra <i>Chanchal Pramanik</i> Discussant(s): <i>Romeo Recide</i></p>
<p>IPS089 Room : A. 1. 18</p>	<p>Improvements of the quality of population and housing censuses in the 2020 round Organiser(s): <i>Francoise Dupont</i> Chair(s): <i>Francoise Dupont</i> A census with less money and better quality <i>Dominique Guedes</i> A global overview of census quality improvements at the onset of the 2020 round <i>Jean Michel Durr</i> New methodology in the field of combining administrative sources and direct data collection <i>Janusz Dygaszewicz</i> Population census using PDA hand held device: Benefits and Challenge, the experience of Senegal <i>Aboubacar Beye</i> Discussant(s): <i>Paolo Valente</i></p>
<p>IPS093 Room :</p>	<p>Distributional Data Analysis Organiser(s): <i>Rosanna Verde</i> Chair(s): <i>Rosanna Verde</i> Activity recognition using personal mobile devices and histogram data <i>Javier Arroyo</i> Functional regression concurrent model with spatially correlated errors: Application to precipitation pro les in Valle del Cauca, Colombia <i>Nistor Grozavu</i> Histogram Data Stream Clustering using Dynamic Topological Learning <i>Guenael Cabanes</i> Subspace clustering of distributional data: some concurrent algorithms <i>Antonio Irpino</i> Discussant(s): <i>Paula Brito</i></p>

<p>IPS095 Room : B. 0.02</p>	<p>Measurement of decent work, quality of employment and job quality: Comparisons of international frameworks and national experiences Organiser(s): <i>Monica Castillo</i> Chair(s): <i>Alain Vuille</i> Decent work measurement: The case of Azerbaijan <i>Nemat Khuduzade</i> Employment quality measurement: The statistical framework of the UNECE and implementation experiences in Germany <i>Thomas Korner</i> International frameworks on measuring decent work and quality of employment: Key differences and complementarities <i>Monica Castillo</i> Measuring and assessing Job quality <i>Sandrine Cazes</i> Moroccan women, a potential undervalued! <i>Jamal Guennouni</i> Discussant(s): <i>Tite Habiyakare</i></p>
<p>IPS138 Room :</p>	<p>Statistical Modeling of Natural Hazards Organiser(s): <i>Jiancang Zhuang, Serge Guillas</i> Chair(s): <i>Serge Guillas</i> An ANOVA-type procedure for replicated spatio-temporal point patterns with environmental applications <i>Jorge Mateu</i> Bayesian inference and predictive accuracy of failure models driven by a self-correcting point process for long-term recurrence of strong earthquakes <i>Elisa Varini</i> Modelling earthquake clustering and stochastic reconstruction <i>Jiancang Zhuang</i> Short-term probabilistic hazard mapping ? forecasting catastrophe without stationary assumptions <i>Elaine Spiller</i> Discussant(s): <i>Peter Challenor</i></p>
<p>STS015 Room : A. -1.07</p>	<p>"Knowledge-based Statistical Methods in Innovative Data Science" Organiser(s): <i>Fionn Murtagh</i> Chair(s): <i>Fionn Murtagh</i> TBD <i>Mohsen Farid</i> TBD <i>Mireille Summa</i> TBD <i>Rosanna Verde</i> The data mining approach as the starting point for Mental Health policy-making in low and middle income countries at World Health Organization <i>Karina Gibert</i> Ultrametric Regression, Tree Branch Matching, Matching Hierarchical Structures in Linear Time <i>Fionn Murtagh</i></p>

<p>STS024 Room : A. -1.05</p>	<p>The Use of Statistics in Human Rights, Humanitarian, and Developmental Projects World-Wide Organiser(s): <i>Cathy Furlong</i> Chair(s): <i>Ramesh Srivastava</i> Statistical Consulting on Human Rights and Humanitarian Projects <i>Susan Hinkins</i> Statistics Without Borders Projects: Human Rights, Humanitarian, and Developmental Projects World-Wide <i>Cathy Furlong</i> The effort for egalitarian rights on education in Brazil: a statistician's look <i>Jair Koiller</i> The Use of Statistics in Human Right, Humanitarian, and Developmental Projects Word-Wide <i>Mary Gray</i> The Use of Statistics in Human Rights, Humanitarian, and Developmental Projects World-Wide Population Assessment of Ukraine 2015 Project <i>Ramesh Srivastava</i> Discussant(s): <i>Mary Gray</i></p>
<p>STS026 Room : A. -1.06</p>	<p>Measurement of Tourism Satellite Account for Policy and Business Analysis Organiser(s): <i>Riyanti Saari</i> Chair(s): <i>Mohd Uzir Mahidin</i> DOMESTICS TOURISM SURVEY MALAYSIA'S EXPERIENCE TOWARDS MEASURING TOURISM STATISTICS <i>Nazaria Baharudin</i> Growing Importance of Tourism to Malaysia's Economy <i>Kanageswary Ramasamy</i> Measuring the economic impact of inbound tourism in Hong Kong <i>Gloria Ma</i> Tourism Statistics and TSA: The Case of Turkey <i>Nazende Coskun</i> TSA in Austria: challenges of compilation versus benefits and limits for (policy) users <i>Peter Laimer</i> Discussant(s): <i>Mohd Uzir Mahidin</i></p>
<p>STS049 Room : A. -1.09</p>	<p>Recent Advances in Count Data Regression Organiser(s): <i>Somnath Datta</i> Chair(s): <i>Somnath Datta</i> A COM-Poisson Mixed Model with Normal Random Effects for Clustered Count Data <i>Darcy Morris</i> A Robust Score Test of Homogeneity for Zero-Inflated Count Data <i>Kyungmann Kim</i> Analyzing clustered count data with cluster-specific random effect zero-inflated Conway-Maxwell-Poisson distribution <i>Somnath Datta</i> Network analysis of next-generation sequencing count data <i>Susmita Datta</i> Power and Reversal Power Links for Binary Regressions <i>Francisco Louzada</i></p>

<p>STS062 Room : A. 1.19</p>	<p>African Data Initiative Organiser(s): <i>David Stern</i> Chair(s): <i>Roger Stern</i> AIMS, Africa and ADI <i>Mark Roberts</i> An Easy-To-Use Tool for Climatic Data Analysis for Decision Making in Agriculture <i>Francis Torgbor</i> Improving Learning of Statistics in Kenyan and Tanzanian schools <i>Zach Mbasu</i> Improving resources for the analysis of agricultural research data in Africa and beyond <i>Andree Nenkam</i> Introducing R-Instat <i>Danny Parson</i> Opportunities and Challenges of Statistics Education Initiatives at Maseno University, Kenya <i>James Musyoka</i> Discussant(s): <i>John Lunalo, Lily Clements, Maxwell Fundi</i></p>
<p>STS086 Room : A. 1.17</p>	<p>Proposal by the Inter American Statistical Institute (IASI) and the Integrated Public Use Microdata Series (IPUMS) of the Minnesota Population Center: Assessing the quality of population censuses: processes and outputs Organiser(s): <i>Evelio O. Fabbroni</i> Chair(s): <i>Enrique De Alba</i> Abstract of paper: The 2021 population and housing Census in Spain: challenges and findings (Jorge L. Vega Valle - SPAIN) <i>Jorge Luis Vega Valle</i> Assessing the quality of register-based population censuses: processes and outputs <i>Bart Bakker</i> Data Quality Assessment in the IPUMS: Processing, Formal Review, and the Research Community <i>Lara Cleveland</i> The Census in Mexico; its history, recent developments, achievements and challenges <i>Carole Odette Schmitz Basañez</i> The population census, methodology, quality control, output and challenges <i>Alphonse L. Macdonald</i></p>
<p>STS093 Room : B. 1.04</p>	<p>Practical applications of micro-macro linkages and networks in policy analysis Organiser(s): <i>Ilja Kristian Kavonius</i> Chair(s): <i>Ilja Kristian Kavonius</i> An analysis of income distribution by linking household surveys with national accounts measurements <i>Martha Tovar</i> Hedonic Housing Price Estimation Using Administrative Micro-data <i>Kim Sungjun</i> Linking Micro-data on Households to National Accounts: The OECD Disparities in National Accounts Project <i>Peter Van De Ven</i> Measuring the Distribution of Household Wealth Using the Financial Accounts of the United States <i>Susan Mcintosh</i> Monitoring systemic institutions for the analysis of micro-macro linkages and network effects <i>Bruno Tissot</i></p>

OR-A03 Room : A. -1.11	Applications 03 Cancer Gene Analysis by Singh et al. Microarray Data <i>Shuichi Shinmura</i> Comparative smoothing techniques in logistic regression model with application to biochemical analysis <i>Souad Behcrouri</i> Correlates of Life Expectancy and HIV/AIDS in South Africa <i>Sathiya Susuman Appunni</i> Effective Experience Analysis of Breast Cancer Death Rates for Japanese Elderly Women <i>Nobutane Hanayama</i> Metrics for measuring risk of incapacity for Australian Retirement Village Residents <i>Timothy Kyng</i> Using imputed genotype data in the joint score tests for genetic association and gene-environment interactions in case-control studies <i>Minsun Song</i>
OR-A04 Room : A. 1.13	Applications 04 A study on the Improvement of the Student Generation Rates using the public data <i>Soorin Hwang</i> Power and Practicality of Large Supersaturated Designs <i>Varun Khemani</i> Spatial functional linear regression with derivatives <i>Bouka Stephane</i> Spatially Constrained Mixture Model for Areal Data with Noise Points <i>Cunyi Wang</i> Statistical Data Depth for Covariance and Spectral Density Matrices <i>Joris Chau</i> The use of statistical modelling to analyse women's participation in Brazilian cinema <i>Paula Almeida</i>
OR-B06 Room : A. 1.14	Methods and Theory 06 Analytical framework for extreme eigenvalue distributions of complex noncentral Wishart type <i>Johannes Ferreira</i> How to organise the production of cross-border statistics? <i>Johan Van Der Valk</i> Modelling Recurrent Pneumococcal Acquisition of Multiple Event Types: Extending the Prentice, Williams & Petersen Model <i>Jordache Ramjith</i> On some approximate stochastic orders <i>Juan A. Cuesta-Albertos</i> Prediction for Progressively Type II Censored Lifetimes From Weibull Distribution in a Simple Step-Stress Model <i>Indrani Basak</i> Stochastic Modelling and Projection of Mortality Improvements <i>Jonathan Forster</i>

<p>OR-G02 Room : C. 0.05</p>	<p>Survey Statistics 02 Census Microdata and the 2030 Agenda: IPUMS for SDG Measurement and Disaggregation <i>Kristen Jeffers</i> Inferences based on order statistics from extended samples <i>Mohammad Ahsanullah</i> Methodology and Implementation of Global Youth Tobacco Surveys: Challenges and Opportunities <i>Krishna Mohan Palipudi</i> Nontechnical Errors in Statistical Collaborative Research <i>Jeffrey Dawson</i> On a CLT for functionals of standard exponential variables motivated by Extreme Value Theory <i>Modou Ngom</i> Response-based sampling for binary choice models with sample selection <i>Giuseppina Guagnano</i> Using a pseudo mixed survey to measure informal sector: the case of Senegal <i>Mamadou Kane</i></p>
---	---

IPS013 Room : A. 1.16	Challenges and Lessons Learned: Implementing Changing Methodologies and Technologies in the 2020 Round of World Censuses Organiser(s): <i>Arona Pistiner</i> Chair(s): <i>Arona Pistiner</i> Future developments on the Canadian Census of Population <i>Marc Hamel</i> Preparing for the 2020 Census of the United States: What We Have Learned So Far <i>Lisa Blumerman</i> Tailored enumeration in the 2016 Australian Census ? challenges and opportunities realised in a digital-first census <i>Jo Runjajic</i> Discussant(s): <i>Caroline Rogers</i>
IPS038 Room :	Causal structural learning Organiser(s): <i>Marloes Maathuis</i> Chair(s): <i>Regina Liu</i> Causal Discovery and Learning <i>Kun Zhang</i> Construction and Discovery of Causal Macro Variables <i>Frederick Eberhardt</i> Learning DAGs based on sparsest permutations <i>Caroline Uhler</i> Discussant(s): <i>Ali Shojaie</i>
IPS052 Room :	Use of reporting systems and other administrative data in agricultural statistics Organiser(s): <i>Carola Fabi, Naman Keita</i> Chair(s): <i>Carola Fabi</i> Administrative Reporting Systems for Agriculture in Asia and the Pacific <i>Dalisay Maligalig</i> Integration of Statistical and Administrative Agricultural Data from Namibia <i>Emily Berg</i> Strategies and Methodologies for Improving the Quality and Use of Data from Reporting Systems in an Integrated Agricultural Statistics System <i>Agnes Ssekiboobo</i>
IPS060 Room :	Data user in focus - statistics in use Organiser(s): <i>Reija Helenius</i> Chair(s): <i>Reija Helenius</i> Focus on users to increase the value of official statistics <i>Elaine O'Mahoney</i> Putting users at the centre: The European Statistical System's approach in the DIGICOM project <i>Emanuele Baldacci</i> The customer knows it better? ? The use of think tank and other customer research methods at Statistics Finland <i>Hannele Orjala</i> Discussant(s): <i>Steve Macfeely</i>
IPS070 Room :	Statistical Modelling and Risk Analysis Organiser(s): <i>Teresa Oliveira</i> Chair(s): <i>Teresa Oliveira</i> Adversarial Risk Analysis <i>David Banks</i> Design of experiments for dependency modelling <i>Werner Muller</i> Extreme Value Analysis and Risk Modeling <i>M. Ivette Gomes</i> Discussant(s): <i>Christos Kitsos</i>

<p>IPS101 Room :</p>	<p>Recent Developments in Genetic Association Studies Organiser(s): <i>Malka Gorfine</i> Chair(s): <i>Malka Gorfine</i> Genetic risk prediction using support vector machines <i>Yair Goldberg</i> How Small Data Can Leverage Big Data <i>Bhramar Mukherjee</i> Set-based Genetic Association Analysis with Complex Traits <i>Li Hsu</i></p>
<p>IPS116 Room :</p>	<p>A Comparative Study of Statistical Inference from an Educational Point of View Organiser(s): <i>Manfred Borovcnik</i> Chair(s): <i>Michael Schimek</i> A title <i>Robert Del Mas</i> Informal inference ? some thoughts to reconsider <i>Manfred Borovcnik</i> Urging a paradigm change: An introduction to BFF (Bayesian, frequentist and fiducial) inferences and how Bayesian and frequentist come together <i>Min-Ge Xie</i> Why and how to train introductory statistics students in Bayesian thinking: a decision oriented approach towards statistical inference <i>Dalene Stangl</i> Discussant(s): <i>Jan Hannig</i></p>
<p>IPS121 Room :</p>	<p>Statistical Analysis of Neuroimaging and other Biomonitoring Data Organiser(s): <i>John Aston</i> Chair(s): <i>David Degras</i> Smooth principal component analysis over two-dimensional manifolds with an application to neuroimaging <i>John Aston</i> Statistical Analysis of Heart Rate Variability <i>Michelle Liou</i> Tensor Regression and Application in Neuroimaging Analysis <i>Lexin Li</i> Discussant(s): <i>Genevera Allen</i></p>
<p>IPS134 Room :</p>	<p>IASS President's Invited Lecture and Cochran-Hansen Prize Lecture Organiser(s): <i>Steven Heeringa</i> Chair(s): <i>Steven Heeringa</i> Next Generation Data: Surveys in a Transformed Environment <i>Colm O' Muircheartaigh</i> Ranked set sampling approach for estimating response of developmental programs with linear impacts under successive phases <i>Girish Chandra</i></p>
<p>STS009 Room : A. -1.07</p>	<p>Urn Models Organiser(s): <i>Krishanu Maulik</i> Chair(s): <i>Anindya Roy</i> Affine urn models <i>Hosam Mahmoud</i> Generalized Plya Urn Schemes With Negative Reinforcements <i>Antar Bandyopadhyay</i> Multi-drawing multi-colour urns by stochastic approximation. <i>Cecile Mailler</i> Strong and Weak Laws for Urn Models with Random Replacement Matrices <i>Krishanu Maulik</i></p>

<p>STS053 Room : A. -1.06</p>	<p>On functional and shape analysis Organiser(s): <i>Anne-Françoise Yao, Chafik Samir</i> Chair(s): <i>Sophie Dabo-Niang</i> Growth and Form: A statistical Framework for the cross-sectional Geometric Variability of Object Shapes and the Functional Dynamics <i>Chafik Samir</i> Kernel regression estimation for non stationary functional spatial process <i>Anne-Françoise Yao</i> Robust Functional Regression Analysis Using a Heavy-tailed Process <i>Jian Qing Shi</i> The Rao's distance between negative binomial distributions for Exploratory Analyses and Goodness-of-Fit Testing <i>Claude Manté</i> Discussant(s): <i>Sophie Dabo-Niang</i></p>
<p>STS064 Room : A. -1.09</p>	<p>Challenges and Solutions for Building Statistics Capacity in Developing Countries Organiser(s): <i>Eric Vance</i> Chair(s): <i>Eric Vance</i> Challenges in Statistics in Developing Countries <i>Demisew Gebru</i> Fostering a collaborative approach to research through the University of Zimbabwe Laboratory for Interdisciplinary Statistical Analysis (UoZLISA) <i>Lillian Siziba</i> Strengthening a statistical channel/bridge among researchers and policy makers through statistical collaboration <i>Muhammad Amin</i> TBD <i>Emanuel Msemo</i> TBD <i>Nelson Taruvinga</i> Discussant(s): <i>James Rosenberger</i></p>
<p>STS065 Room : A. 1.19</p>	<p>Focussing on pillars which make Modernisation Strategies operational: some National Statistical Institutes experiences Organiser(s): <i>Nadia Mignolli, Piero Falorsi</i> Chair(s): <i>Giorgio Alleva</i> Next Generation Data Management in a Statistical Organisation <i>Barteld Braaksma</i> Operationalising of a Business Architecture: Corporate Services and Process-driven Governance of the Hungarian Central Statistical Office <i>Csaba ÁBry</i> TBD <i>Antonio Portugal</i> TBD <i>Nadia Mignolli</i> TBD <i>Nadezda Fursova</i> Discussant(s): <i>Giulio Barcaroli</i></p>

<p>STS078 Room : A. -1.05</p>	<p>Bayesian inference for Markov processes: challenges and solutions Organiser(s): <i>Lam Ho, Trevor Shaddox</i> Chair(s): <i>Ho Lam</i> Adaptive, delayed-acceptance MCMC for stochastic kinetic models <i>Andrew Golightly</i> Direct likelihood-based inference for discretely observed stochastic compartmental models of infectious disease <i>Lam Ho</i> Tackling Bayesian inference in massive healthcare models with parallelization <i>Trevor Shaddox</i> Discussant(s): <i>Marc Suchard</i></p>
<p>STS089 Room : B. 1.04</p>	<p>UNDERSTANDING INFORMALITY, POVERTY AND INEQUALITY NEXUS IN AFRICA Organiser(s): <i>Mustapha Ziroili</i> Chair(s): <i>Said Hanchane</i> African women in informal employment: What do we know and what can we do to know more? <i>Isis Gaddis</i> Employment, Informal Economy and Poverty in Africa: Data Challenges <i>Joann Vanek</i> Labor market segmentation and inequalities in the context of informal employment nexus in developing countries <i>Mustapha Ziroili</i> Discussant(s): <i>Eric Verdier</i></p>
<p>STS722 Room : A. 1.17</p>	<p>Modern Statistical Methodologies for High-Dimensional Data Applications Organiser(s): <i>Eman Khorsheed</i> Chair(s): <i>Eman Khorsheed</i> A Tree-Structured Competing Risks Regression in Data Mining <i>Noor Ibrahim</i> Applications of Big Data in Safe City & Smart City <i>Jorge Sebastiao</i> BWiki -Using BlockChain To Build Trusted Open Data Platform <i>Ahmed Raafat</i> Efficient inference in high dimensional genetic data <i>Fazil Baksh</i></p>
<p>OR-B15 Room : C. 0.05</p>	<p>Methods and Theory 15 A Bayesian multivariate structured geoaddivitive distributional regression model in breast cancer screening data <i>Bruno De Sousa</i> A New Permutation Test for Counts of Coevolutionary Events from Two Populations <i>Rebecca Ali</i> Constrained Principal Component Analysis for Nonmetric Data <i>Yuki Yamagishi</i> Maximum Likelihood Parameterization for Conditional Probabilities <i>Yves Thibaudeau</i> On the Frequency Domain Composite Likelihood Methods for Estimating Spatio-Temporal Models <i>Mosammam Ali</i></p>

<p>PP-B16 Room : A. 0.21</p>	<p>Methods and Theory 16 A Bernstein estimator of the multivariate distribution function under right censoring <i>Khaled Dib</i> A New Method of Constructing a Distance Function in the Nearest-Neighbor Imputation Method: Imputing the turnover of restaurants utilizing the ?Restaurant Web Data? <i>Tamaki Miyauchi</i> Application of the Exponentiated Log-logistic Weibull Distribution to Censored data <i>Fagbamigbe Adeniyi</i> Asymptotic robustness of Kelly"s GLRT and Adaptive Matched Filter detector under model misspecification <i>Stefano Fortunati</i> Asymptotic theory of the Concordance Correlation coefficient CCC <i>Mohamed Cheikh Haidara</i> Bayes Estimation and Prediction of Biased Sample Selected From a Finite Population <i>Abdulhakeem Eideh</i> CAUSAL INFERENCE IN OBSERVATIONAL STUDIES: PROPENSITY SCORE BASED METHODS IN CASE-CONTROL STUDIES WITH MISSING VARIABLE INFORMATION. <i>Halima Twabi</i> Estimation of multivariate 3rd moment for high-dimensional data and its application for testing multivariate normality <i>Takayuki Yamada</i> Homogenization and Large Deviation Principle with Applications to Reflecting Diffusion processes <i>Alioune Coulibaly</i> On the parameters estimation of the new Seasonal FISSAR model and simulations <i>Papa Ousmane Cisse</i> Point of Scale Differences in the Rating Scales of the Liking Score as the Determinant of Efficiency in Penalty Analysis of Liking Score and Other Sensory Attributes of Plantain Chips on Just About Right Scale <i>Olugbemi Olujimi</i> Risk profile concept to build scorecard models <i>Mehdi Bazzi</i> Stratified Propensity Score Matching ? quasi experimental designs dealing with lack of dependent variable <i>Lukasz Widla-Domaradzki</i> The exact probability law for the approximated similarity from the Minhashing method <i>Soumaila Dembele</i> Time evolution of copulas <i>Ledys Salazar Gomez</i></p>
----------------------------------	--

<p>IPS062 Room :</p>	<p>Novel approaches for analyzing high-dimensional time series Organiser(s): <i>Ali Shojaie</i> Chair(s): <i>George Michailidis</i> Consistent Sequential Learning Algorithms for Highly Dependent Time Series <i>Azadeh Khaleghi</i> Network Modeling of High-dimensional Time Series in the presence of Factors <i>Basu Sumanta</i> Nonparametric Estimation of High-Dimensional Ordinary Differential Equations <i>Ali Shojaie</i> Discussant(s): <i>Aston John</i></p>
<p>IPS077 Room : A. 1.16</p>	<p>Methods for Precision Medicine using Complex Data Modalities Organiser(s): <i>Thaddeus Tarpey</i> Chair(s): <i>Lang Wu</i> Functional and imaging data in precision medicine <i>R. Todd Ogden</i> Generated Effect Modifiers in Linear and Non-parametric Models <i>Eva Petkova</i> Predicting Longitudinal Outcome Trajectories Using Complex Data Modalities <i>Thaddeus Tarpey</i></p>
<p>IPS079 Room : A. 1.18</p>	<p>Global Value Chain measurement and its importance for developing countries Organiser(s): <i>Houssain Ouljour, Ronald Jansen</i> Chair(s): <i>Ronald Jansen</i> Measurement of China's Participation in the Apparel and Electronics Global Value Chains <i>Stacey Frederick</i> Measurement of Costa Rica's participation in the Medical Devices and Electronics Global Value Chains <i>Henry Vargas-Campos</i> <i>Central Bank of Costa Rica, San José, Costa Rica ? VARGASCH@bccr.fi.cr</i> Gary Gereffi <i>Duke Center for Globalization, Governance and C</i> <i>Henry Vargas-Campos</i> Measurement of Morocco's participation in the Automotive Global Value Chain <i>In the late 1990s, Morocco launched an industrialization plan primarily in high value-added sectors such as electronics, aerospace and automotive industries, while consolidating i</i> <i>Houssain Ouljour</i> Measurement of Vietnam's participation in the Apparel and Electronics Global Value Chains <i>Thuy Le Thi Minh</i> Discussant(s): <i>Veijo-Ismo Ritola</i></p>
<p>IPS096 Room :</p>	<p>The Role of Surveys in a 21st Century Census Organiser(s): <i>James Brown</i> Chair(s): <i>Siu-Ming Tam</i> One-number census using coherent calibration with small area constraints <i>Ralf Münnich</i> The importance of surveys in modern censuses <i>Peter Jones</i> The Role of Surveys in a 21st Century Census: an overview of approaches <i>James Brown</i> Discussant(s): <i>Jean-Michel Durr</i></p>

<p>IPS105 Room :</p>	<p>Stein's Method Organiser(s): <i>Gesine Reinert</i> Chair(s): <i>Mark Podolskij</i> Ito's formula in distribution for the one-dimensional fractional Brownian motion <i>Ivan Nourdin</i> Kolmogorov bound for particle configuration in quantum mechanics <i>L.H.Y. Chen</i> Stein's method and random matrices <i>Elizabeth Meckes</i> Discussant(s): <i>Gesine Reinert</i></p>
<p>IPS108 Room :</p>	<p>Keeping Official Statistics Relevant: Adaptive Designs to Reduce Bias and Improve Timeliness Organiser(s): <i>David Marker</i> Chair(s): <i>Peter Lynn</i> A Practical Indicator For Use in Targeted Follow Up <i>Sybilie Mckeown</i> Adaptive survey designs accounting for uncertainty and gradual change in survey design parameters <i>Barry Schouten</i> Using Preliminary Estimates, Paradata, and Targeted Follow-Up to Produce Timely Estimates <i>David Marker</i> Discussant(s): <i>Natalie Shlomo</i></p>
<p>IPS111 Room :</p>	<p>Robust Statistical Methods in Signal and Image Processing Organiser(s): <i>Abdelhak Zoubir, Mounir Ghogho</i> Chair(s): <i>Mounir Ghogho</i> Asymptotic robustness of Kelly's GLRT and Adaptive Matched Filter detector under model misspecification <i>Stefano Fortunati</i> Minimax Robust Sequential Hypothesis Testing Under Density Band Uncertainties <i>Abdelhak Zoubir</i> On the robustness of a self-tuned sequential Monte Carlo method <i>Joaquin Miguez</i> qqq <i>Hamid Krim</i></p>
<p>IPS113 Room :</p>	<p>Statistical Developments in Climate Science Research Organiser(s): <i>Lelys Bravo De Guenni</i> Chair(s): <i>Alexandra Schmidt</i> Clarifying Goals, Identifying Limitations and Quantifying the Past <i>Leonard Smith</i> Making sense of multiple models <i>Richard Chandler</i> The risk of tsunamis from sub-sea landslides <i>Peter Chanellor</i> Discussant(s): <i>Christopher K, Wikle</i></p>
<p>IPS117 Room :</p>	<p>Session on non-Euclidean statistics Organiser(s): <i>Stephan Huckemann</i> Chair(s): <i>Stephan Huckemann</i> Backward Nested Descriptors: Asymptotics and Applications to Biostructure <i>Benjamin Eltzner</i> Geometry and statistics in phylogenetic tree-space <i>Tom Nye</i> Non-asymptotic confidence sets for Frechet means on the circle <i>Thomas Hotz</i> Discussant(s): <i>Steve Marron</i></p>

IPS140 Room :	Accounting for Statistical Dependence in Socio-Economic Data Organiser(s): <i>Noel Cressie</i> Chair(s): <i>Refik Soyer</i> Quantifying and Mitigating Spatial Aggregation Error <i>Christopher Wikle</i> Small Area Estimation for High-Dimensional Multivariate Spatio-Temporal Count Data <i>Scott Holan</i> Survey Inference Using Geocoded Data <i>Ray Chambers</i>
STS010 Room : A. -1.07	Consistency of National Accounts and Balance of Payments Organiser(s): <i>Silke Stapel-Weber</i> Chair(s): <i>Stapel-Weber Silke</i> Consistency between National Accounts and Balance of Payments statistics : the status of consistency in the nonfinancial accounts <i>Olaf Nowak</i> Financial Stability Analysis: What are the Data Needs? <i>Robert Heath</i> Transatlantic trade services: investigating bilateral asymmetries in EU-US trade statistics <i>Kristy Howell</i>
STS013 Room : A. -1.05	Methodology and Practice of Earning and Income from Employment Statistics Organiser(s): <i>Elena Zarova</i> Chair(s): <i>Konstantin Laykam</i> Interdependence of International Educational Flows and Countries' Economic Development:Issues of Statistical Approach <i>Maria Frolova</i> Perfection of the Methodology of Earnings Statistics in the Russian Federation <i>Elena Zarova</i> Social demographic factors of the wage in Russia: econometric approach <i>Irina Eliseeva</i> TBD <i>Konstantin Laykam</i> TBD <i>Misha Belkindas</i> TBD <i>Sergey Musikhin</i> Discussant(s): <i>Pavel Smelov</i>
STS019 Room : A. -1.06	Issues in spatial and temporal data modeling with applications in the environment and geosciences Organiser(s): <i>Maria Silva, Raquel Menezes</i> Chair(s): <i>Maria Silva</i> Modeling autocorrelated data under Preferential Sampling <i>Maria Silva</i> On methodologies for evaluating the exploitation status of the species <i>Raja undulata</i> <i>Isabel Natario</i> TBD <i>Emanuele Giorgi</i>

<p>STS038 Room : A. -1.09</p>	<p>The Statistical Business Registers Organiser(s): <i>Saleh Alkafri</i> Chair(s): <i>Jan Robert Suesser</i> Dissemination and Outputs from the Statistical Business Registers Firm dynamics and job creation in Tunisia <i>Hassen Arouri</i> Methods to overcome low coverage of Statistical business register <i>Mennatallah Abouhasswa</i> Statistical business register: New approach, New challenges <i>Abedelkader Choqiri</i> Using Households Surveys to Maintain the Statistical Business Register <i>Saleh Alkafri</i> Discussant(s): <i>Pierrette Schuhl</i></p>
<p>STS054 Room : A. 1.17</p>	<p>Recent Advances in Analysis and Modeling of Time Series Data with High Complexity and Dimensionality Organiser(s): <i>Ta-Hsin Li</i> Chair(s): <i>Balgobin Nandram</i> Elastic Band Transform and Its Applications <i>Hee-Seok Oh</i> Estimation of Logistic Smooth Transition Autoregressive Models Using Bayesian Shrinkage Methods <i>Ioannis Kamarianakis</i> Forecasting Time Series of Counts Using Poisson Autoregressive Models: A Case Study <i>Ta-Hsin Li</i> Spectral Causality: Exploring Lead-Lag Dependence Structure Between Oscillatory Activities in Multivariate Signals <i>Hernando Ombao</i></p>
<p>STS058 Room : A. 1.19</p>	<p>Identification and Control of Response and Non-response Errors in Surveys Organiser(s): <i>Zahra Rezaei Ghahroodi</i> Chair(s): <i>Farhad Mehran</i> Are you thinking what I'm meaning: Experiences from cognitive interviews in multi-country survey tests <i>Elisa Benes</i> Non-response Adjustment and Estimating Response Errors Using MLCA in Iranian Labor Force Survey <i>Rezaei Ghahroodi Zahra</i> Understanding and addressing refusals: Lessons from modern slavery surveys at the national and state level in India <i>Jacqui Joudo Larsen</i></p>
<p>STS061 Room : B. 1.04</p>	<p>Recent advances in data fusion methodology Organiser(s): <i>Hans Kiesl</i> Chair(s): <i>Ralf Münnich</i> A Bayesian approach to statistical matching <i>Lisa Borsi</i> Estimation within the New Integrated System of Household Surveys in Germany <i>Saeideh Kamgar</i> Multiple imputation for addressing uncertainty in statistical matching <i>Hans Kiesl</i> Statistical Matching as a Supplement to Record Linkage - A valuable method to tackle non-consent bias? <i>Joerg Drechsler</i></p>

STS074 Room : C. -1.03	The Value and costs of national and international statistics Organiser(s): <i>Martine Durand</i> Calculating the costs of products and services of the European Statistical System <i>Pieter Everaers</i> Cost of industrial surveys in developing countries - UNIDO's experience <i>Shyam Upadhyaya</i> Measuring the Value of Data - Abstract <i>Amparo Ballivian</i> TBD <i>Pietro Gennari</i>
OR-A09 Room : A. -1.11	Applications 9 ?Essentially all models are wrong but some are useful?: Practical significance of Item Response Theory misfit <i>Yue Zhao</i> Dimensionality reduction and class prediction algorithm for cancer class Big Data <i>Fadoua Badaoui</i> Hodrick-Prescott Filtering by Segments with Controlled Smoothness and Forecasting: The case of remittances to Mexico <i>Victor Guerrero</i> Measuring housework participation: the gap between Men and women in Morocco. <i>Asmae Mhmmoudi</i> Primary deficit and public debt ratio <i>Ahmed Oulad El Fakir</i> Research on Gender Equality between Urban and Rural Areas in China: From the Viewpoint of the Household Division of Labor <i>Fengdan Shi</i>
OR-A13 Room : A. 1.13	Applications 13 Measuring Determinants of health outcome using Ordinary Least Square vs Endogenous regression models <i>Ngiana Li Kandala</i> Neither in Education, nor Employment or Training: Characteristics and Causes of NEET-affected Youth in Morocco <i>Salima Mansouri</i> On a Spatial Concordance Correlation Coefficient <i>Ronny Vallejos</i> Statistical decompositions of the increase in TIMSS Scores in Morocco between 2011 and 2015 <i>Ayoub N'Haji</i> The Australian perspective: The good, the bad and the ugly of the modernisation journey <i>Trevor Sutton</i>
OR-B21 Room : A. 1.14	Methods and Theory 21 Exponential tilting in approximate posterior computation <i>Samer Kharroubi</i> Multiscale local polynomial transforms, Bandwidth selection and Density estimation. <i>Mohamed Amghar</i> Nonparametric estimates of the regression function with doubly censored data <i>Fatiha Messaci</i> On Control Charts Run in Parallel <i>Moshe Pollak</i> Robust Automatic Modeling of Time Series Data with the Presence of Outlier and Volatility Clustering <i>Meri Rosmalawati</i>

<p>OR-B24 Room : C. 0.05</p>	<p>Methods and Theory 24 A new destructive Poisson odd generalized half-normal cure rate model <i>Rodrigo Pescim</i> Fitting equations to data using the perfect correlation relationship <i>Chris Tofallis</i> Inference for Nonlinear Stochastic Equations with Random Effects <i>Hamid El Maroufy</i> On the analysis of two-phase designs in cluster--correlated settings <i>Claudia Rivera</i> Some PCA extensions where covariance operator does not exist <i>Noureddine Rhomari</i></p>
<p>PP-B30 Room : A. 0.21</p>	<p>Methods and Theory 30 A particle filter for a state space model evolving with increasing complexity <i>Peter Ridall</i> A step forward: Upgrading the Basque application to access statistical data through GIS <i>Enrique Moran Alaez</i> Copula-based Segmentation of Land-cover Types in Satellite Image Radiometric Multispectral Pixel Data <i>Francisco Delos Reyes</i> Effects of Longitudinal Blood Glucose Levels on Diabetes Complications in Bangladesh: A Joint Modelling Approach <i>M. Tuhin Sheikh</i> Estimation of Nonlinear Panel Models with Multiple Unobserved Effects <i>Mingli Chen</i> Grajales LF and Fernandez D. (2017): A Bayesian Partial Likelihood for many ties and many times in Survival Analysis: an application in Medicine. <i>Luis Grajales</i> Impact of Proxy Responses on Tobacco Smoking in Thailand Tobacco Surveys <i>Jason Hsia</i> Implicit Likelihoods <i>Charles Rohde</i> Key Capability Determinants of Information Communications Technology Services Industries in Malaysia: A Factor Analysis Perspective <i>Ramachandran Ramasamy</i> Robust Regression Modeling for Censored Data based on Mixtures of Student-t Distributions <i>Luis Benites Sanchez</i> Sentiment analysis and the rule of social media in social and revolutionary movement: case of North Africa between 2010 and 2016 <i>Ayoub Oubibi</i> Study on Statistical Method of ?Internet Plus? <i>Guiping Hu</i> The importance of estimation of changes in soil nutrient stock in calculating gross nutrient balances (N&P balances) <i>Fethi Ozbek</i></p>

IPS123 Room :	IBS Session: Statistics in the Biosciences Organiser(s): <i>Elizabeth Thompson</i> Chair(s): <i>Elizabeth Thompson</i> Monitoring the biodiversity of regions: design, measurement and modelling advances motivated by Convention for Biological Diversity targets <i>Stephen Buckland</i> Semi-parametric mixed beta regression models for disease severity in plants: Modelling black Sigatoka in banana crops <i>Raul Macchiavelli</i> Statistical Inference in Massive Whole-Genome Genetic and Genomic Studies Xihong Lin <i>Xihong Lin</i>
IPS149 Room :	Session of the Statistical Journal of the IAOS (SJIAOS) - Survey Fabrication: Detection, Prevention and Repair Organiser(s): <i>Fritz Scheuren, Kirsten West</i> Chair(s): <i>Kirsten West</i> A systems thinking approach to addressing survey data fabrication <i>Steve Koczela</i> AAPOR/ASA Data Falsification Task Force: Progress Report <i>Jill Dematteis</i> Evidence of Data Fabrication in Many Public Opinion Surveys Conducted in Iraq between 2005 and 2009 <i>Michael Spagat</i> TBD Discussant(s): <i>Fritz Scheuren</i>
IPS153 Room :	Session of the Statistics Journal of IASE Organiser(s): <i>Manfred Borovcnik</i> Chair(s): <i>Stefania Mignani</i> To SERJ or not to SERJ _ that is the question (with apologies to Shakespeare) <i>Jim Ridgway</i> Discussant(s): <i>Ayse Bilgin, Manfred Borovcnik</i>
IPS159 Room :	Statistical Models Meet New Technology: merging the old and the new Organiser(s): <i>Fabrizio Ruggeri</i> Chair(s): <i>Fabrizio Ruggeri</i> Statistical Models Meet New Technology: merging the old and the new <i>Kerrie Mengersen</i>
IPS161 Room :	ISI Mahalanobis Award Lecture Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> Research in experimental design in India: achievements and emerging challenges <i>Rahul Mukerjee</i>

<p>PO-B18 Room : A. 0.20</p>	<p>Methods and Theory 18 A Proposal of Confidence Bands for the Estimation of Expected Discounted Warranty Costs for Coherent Systems under Minimal Repair <i>Carlos-Mario Lopera-Gomez</i> Active Learning Procedure for Penalized Logistic Regression via Sequential Experimental Design <i>Eunsik Park</i> Comparison of different mixture design for the complex phenomena modeling <i>Charles Gomes</i> Estimation and Implementation of Measurement Invariance with dichotomous items <i>Luis Rojas</i> Evaluation of repeatability and reproducibility of instrumental evaluation methods <i>Hicham Noçairi</i> Joint Asymptotic Theory of Gini and Growth Indices <i>Pape Djiby Mergane</i> Latent class models approach to the rater agreement in ordered square contingency tables <i>Ayfer Ezgi Yilmaz</i> Mixed Power Normal Model <i>Andressa Siroky</i> Modeling interaction with liquid association <i>Ker-Chau Li</i> On Predictive Density Estimation for a Constrained Gamma Model under Kullback-Leibler Loss <i>Aziz Lmoudden</i> Quasi-Maximum Likelihood Estimators For Functional Spatial Autoregressive Models <i>Zied Gharbi</i> Stacking Prediction for a Quantitative Outcome <i>Hicham Noçairi</i></p>
<p>PO-D02 Room : A. 0.20</p>	<p>Statistical Education 02 Cluster Analysis in the context of Educational Data <i>Ali Alzahrani</i> Development of key performance indicators and impact assessment for R&D sector in Palestine <i>Rabeh Morrar</i> Guided-inquiry learning for an undergraduate behavioural science statistics course <i>Matthew Zagumny</i> Impacts of R&D Inputs and Restructuring on the Output of Patents and Papers in Chinese Research Institutes <i>Yunjie Sun</i> Out-of-School Children in Morocco, Stylized facts, and determinants <i>Mohamed Yassine Abahamid</i> Risk Factors for Education in Germany <i>Holger Leerhoff</i> STATISTICAL AWARENESS TO THE YOUNG PEOPLE ACROSS LESS DEVELOPED AND DEVELOPING COUNTRIES <i>Ombeni Kaluse</i> THE ATTITUDE OF STUDENTS TOWARDS CHOOSING STATISTICS AS COURSE OF STUDY IN NIGERIA. <i>Chinonye Obichili</i></p>

PO-H03 Room : A. 0.20	Environmetrics 03 Comparison of different regularized or shrinkage regression methods to predict daily tropospheric ozone concentration in the Grand Casablanca area <i>Halima Oufdou</i> Estimates of the distributional welfare effects of agricultural technology adoption: evidence on improved maize in Togo <i>Banawe Anissa</i> Extreme value modeling and probabilistic downscaling from climate model for projections of temperature extremes in Taiwan <i>Chu-Chih Chen</i> Finding profiles on the energetic sector of G20 countries from 1990 <i>Karina Gibert</i>
---------------------------------	---

IPS017 Room :	How to Geo-Enable Official Statistics? - the global Statistical Geospatial Framework. Organiser(s): <i>Ekkehard Petri</i> Chair(s): <i>Susanne Schnorr-Bäcker</i> A strategy for integrating geo-spatial information and statistics for Africa <i>Sharthi Laldaparsad</i> Integration of statistical and geospatial information. More than 30 years of experience georeferencing information in Mexico <i>Rolando Ocampo</i> The Statistical Geospatial Framework for the European Statistical System ? ESS-SGF <i>Marie Haldorson</i> UN Geospatial Statistical Framework in Practice - the Australian experience <i>Liz Kalinin</i> Discussant(s): <i>Marja Tammilehto-Luode</i>
IPS018 Room : A. -1.02	Mission completed? Delivery and deployment of modernisation results in official statistics Organiser(s): <i>Martina Hahn</i> Chair(s): <i>Mariana Kotzeva</i> Modernisation program in Istat: main achievements looking forward to a continuous evolution <i>Giorgio Alleva</i> The Australian perspective: The good, the bad and the ugly of the modernisation journey <i>Michael Smedes</i> The new IMF data standards and the ongoing paradigm shift for official statistics <i>Louis Marc Ducharme</i> Using Enterprise Architecture, Digital transformation and an Agile approach in the transformation of statistical production <i>Jan Jones</i> Discussant(s): <i>Pádraig Dalton</i>
IPS064 Room :	Measuring food access, diet and nutritional status in the Context of the SDGs Organiser(s): <i>Carlo Cafiero</i> Chair(s): <i>Jose Rosero Moncayo</i> Measuring food access in the context of sustainable development goal (SDG) 2 <i>Sara Viviani</i> Minimum Dietary Diversity for women of reproductive age: methodological development of the indicator and current challenges <i>Yves Martin-Prével</i> Weather Shocks and Food Security <i>Sharad Tandon</i> Discussant(s): <i>Dramane Bako</i>
IPS085 Room : B. 0.01	UN Sustainable Development Goals: The Implications for Statistics at a Sub-National Level Organiser(s): <i>Jagdev Virdee</i> Chair(s): <i>Jagdev Virdee</i> Cities and Regions and the SDG?s ? the OECD perspective <i>Paolo Veneri</i> Sustainable Development Goals: implications for statistics at a sub-national level - a UK perspective <i>Rourke Emma</i>

IPS086 Room :	How Statistical Collaboration Laboratories Enhance Statistical Education Organiser(s): <i>Eric Vance</i> Chair(s): <i>Zeytu Gashaw</i> Educational impacts of the Laboratory of Applied Statistics (LEA/UFRN) in Brazil <i>Carla Vivacqua</i> Progress and Impact in Teaching and Learning Statistics in Nigeria Through LISA 2020 <i>Olawale Awe</i> The Statistical Collaboration has Impacts on Statistics Education: Experience from the LISA like Program in Ethiopia <i>Ayele Goshu</i> Training Statisticians and Data Scientists to Become Effective Interdisciplinary Collaborators <i>Eric Vance</i> Discussant(s): <i>James Rosenberger</i>
IPS098 Room :	Teaching of economic statistics: past, present, future Organiser(s): <i>Ruslan Motoryn</i> Chair(s): <i>Alexey Ponomarenko</i> Applying of Electronic GeoStatistical Resources in Teaching of Economic Statistics <i>Pavel Smelov</i> Teaching Economic Statistics using JMP <i>Volker Kraft</i> Teaching of economic statistics in Ukraine: past and present <i>Ruslan Motoryn</i> USE OF PROJECTS FOR TEACHING SOCIAL CONCEPTS AND ECONOMICAL STATISTICS <i>Theodore Chatzipantelis</i> Discussant(s): <i>Irina Eliseeva</i>
IPS102 Room : A. 1.16	Disability Statistics and Measurement in the Context of the SDGs and the 2020 World Population and Housing Census Programme Organiser(s): <i>Margaret Mbogoni</i> Chair(s): <i>Margaret Mbogoni</i> Disability measure through the census <i>Aicha Mourchid</i> Measurement of Disability in the Context of the SDGs: Findings from 2014 Population and Housing Census, Myanmar <i>Khaing Khaing Soe</i> Measuring Disability in Mexico through the Census <i>Carole Schmitz</i> Pilot field testing: Experiences in collecting disability data using the Washington Group questions on disability statistics measurement using proxy response. Abstract Uganda conducted the most recent census in 2014. Based on the UN Principles and recomm <i>Pamela Nabukhonzo</i>
IPS104 Room : A. 1.18	Sexual Harrassment and Gender-Based Violence in Selected Nigerian Universities Organiser(s): <i>Adedayo Adepoju</i> Chair(s): <i>Adedayo Adepoju</i> Promoting Gender Equity in University Education: A Statistical Report from Obafemi Awolowo University, Nigeria. <i>Olufunmilayo Soetan</i> SEXUAL HARRASSMENT AND GENDER-BASED VIOLENCE IN FEDERAL UNIVERSITY OF TECHNOLOGY AKURE, ONDO STATE, NIGERIA. <i>Oluwadare Ojo</i> SEXUAL HARRASSMENT AND GENDER-BASED VIOLENCE ON SOUTH WEST, NIGERIA ROADS <i>Kunle Atoyebi</i>

IPS112 Room :	Young researchers' session on Functional Data Analysis Organiser(s): <i>Kristina Lurz, Nihan Acar-Denizli</i> Chair(s): <i>Kristina Lurz</i> Modeling motor learning using heteroskedastic functional principal components analysis <i>Jeff Goldsmith</i> Nonparametric Variable Selection and Screening with a Large Number of Functional Predictors <i>Jan Gertheiss</i> Recursive variable selection for functional data based on maxima hunting <i>José Luis Torrecilla</i> The Evaluation of the Performance of Functional Linear Regression Models on a Remote Sensing Application <i>Nihan Acar-Denizli</i> Discussant(s): <i>Pedro Delicado</i>
IPS160 Room :	Household panel surveys: Morocco's experience in monitoring and evaluating human development Organiser(s): <i>Rachid Benmokhtar Benabdellah</i> Chair(s): <i>Rachid Benmokhtar Benabdellah</i> Household Panel Survey in Morocco: Methodological overview <i>Abdelkader Teto</i> Household Panel Survey of ONDH and Impact Evaluation of Human Development Programs in Morocco <i>Abdelkhalek Touhami</i> Sample Design of the Moroccan Household Panel <i>Pierre Lavallée</i> Uses of panel data: the Swiss case <i>Robin Tillmann</i>
STS006 Room : A. -1.07	Recent Advances in Statistical Methods for Large Scale Correlated Phenomena Organiser(s): <i>Balgobin Nandram, Jian Zou</i> Chair(s): <i>Jian Zou</i> Bayesian Logistic Regression for Small Areas with Numerous Households <i>Balgobin Nandram</i> Estimation of a Distribution Function with Increasing Failure Rate Average <i>Hammou Elbarmi</i> Forecasting Time Series of Counts Using Poisson Autoregressive Models: A Case Study <i>Ta-Hsin Li</i> Signal Detection and Goodness-Of-Fit Tests For Correlated Data <i>Zheyang Wu</i> Unsupervised Self-Normalized Change-Point Testing for Time Series <i>Ting Zhang</i>

<p>STS046 Room : A. -1.05</p>	<p>Age and Gender-Specific Poverty - addressing the statistical challenge embedded in Goal 1 of the Sustainable Development Agenda Gaspar Fajth, UNICEF (gfajth@unicef.org) Organiser(s): <i>Gaspar Fajth</i> Chair(s): <i>Gaspar Fajth</i> Individuals or Households as Units of Measurement in Multidimensional Poverty Studies: a Policy Oriented Assessment. <i>Chris De Neubourg</i> Multi-dimensional Poverty Indices for Children and Household Surveys: Lessons and ways <i>Attila Hancioglu</i> Poverty: prevent or cure? An integrated framework for poverty prevention and equity focusing on optimal brain development from conception to adolescence <i>Daphne Francois</i> THE CHILD MULTIDIMENSIONAL POVERTY INDEX (C-MPI) <i>Sabina Alkire</i> Discussant(s): <i>Celia Reyes, Milorad Kovacevic</i></p>
<p>OR-F05 Room : A. -1.11</p>	<p>Official Statistics 5 Measuring Sustainable Well-being Dimensions Using Multiple Correspondence Analysis <i>Jhoner Perdomo</i> Palestinian Central Bureau of Statistics (PCBS) experiment in Matching Techniques and Administrative Data Records Linkage <i>Haitham Zeidan</i> The integration of ICP and CPI Feasibility in practice <i>Mohammed El Maliki</i></p>
<p>OR-G03 Room : A. 1.13</p>	<p>Survey Statistics 03 A Quasi-Likelihood Tree for Longitudinal Data <i>Saad-Ellah Berhili</i> Functional Discriminant Analysis for Multivariate Longitudinal Data <i>Sugnet Lubbe</i> Methods of analysing complex sample survey data: Importance of taking sample design into account <i>Thanyani Maremba</i> Small domain population estimation based on an administrative list subject to under and over-coverage <i>Patrick Graham</i> Two Stage Adaptive Cluster Sampling based on Ordered Statistics <i>Girish Chandra</i></p>
<p>OR-G06 Room : A. 1.14</p>	<p>Survey Statistics 6 A Comparative study of Survey Modes on Media Usage Questionnaires : Web surveys versus other survey modes <i>Mingue Park</i> An analysis of income distribution by linking households survey with national accounts measurements <i>Martha Tovar Soria</i> BAYESIAN MODELS FOR NONRESPONSE TWO-PHASE SAMPLING <i>Nanhua Zhang</i> Education Inequality and Development :New Evidence from Semiparametric Panel Data, 1955-2010 <i>Wail Benaabdelaali</i> Women?s Opportunities to Obtain Counseling on Family Planning and its Social, Demographic and Population Variations. Case Study: Household Demographic and Health Survey, Jordan 2012 <i>Eman Bnymfarej</i></p>

IPS014 Room :	Recent Developments in Random Graphs Organiser(s): <i>Antar Bandyopadhyay</i> Chair(s): <i>Krishanu Maulik</i> A nonamenable \mathbb{Z}^2-factor of a euclidean space <i>Adam Timar</i> De-Preferential Attachment Random Graphs <i>Antar Bandyopadhyay</i> Sparse High-Dimensional Regression with Binary Coefficients <i>David Gamarnik</i> Discussant(s): <i>Gesine Reinert</i>
IPS054 Room :	Advances in Analysis of Complex Networks in Environmental Sciences Organiser(s): <i>Yulia Gel</i> Chair(s): <i>Lelys Bravo De Guenni</i> Interventions in Networks <i>Steve Thompson</i> Real Time Probabilistic Forecasting of Infectious Diseases Using Social Media Analytics. <i>Lilia Leticia Ramirez Ramirez</i> Structured graphical lasso with applications in finance and biology <i>Veronica Vinciotti</i> Discussant(s): <i>Marcelo Olivera</i>
IPS061 Room :	Recent Developments in Environmental Statistics Organiser(s): <i>Rahmatullah Imon</i> Chair(s): <i>Orietta Nicolis</i> Sampling Issues in Environmental Statistics <i>Rahmatullah Imon</i> TBD The Analysis of PM10 Suspended Particulate Air Pollution Using Several Robust Techniques Case Study in an Industrial Area of Penang Malaysia <i>Habshah Midi</i> Discussant(s): <i>Abdelhameed El-Shaarawi</i>
IPS091 Room :	Advances in the Classification of Time Series Organiser(s): <i>Ann Maharaj</i> Chair(s): <i>Ann Maharaj</i> Conditional Adaptive Bayesian Spectral Analysis of Nonstationary Biomedical Time Series <i>Robert Krafty</i> Feature-based visualization of big time series data <i>Souhaib Taieb</i> Robust fuzzy clustering models for time series based on quantile autocovariances <i>Jose Vilar</i> Discussant(s): <i>Ahlame Douzal</i>
IPS106 Room :	State of the art and advances in modern empirical process theory in welfare analysis Organiser(s): <i>Gane Samb Lo</i> A Comparison of Parametric and Semi-parametric Models for Microarray Data Analysis <i>Bernard Omolo</i> Records, Inter-Record Times, Number of Records and Poisson Process <i>Mohammad Ahsanullah</i> We present the main properties of the functional empirical process and some new trends in that field. The Vapnik-Cervonenkis combinatorial theory and its application to entropy numbers is addressed. Then, the uniform weak laws of the empirical processes are <i>Gane Samb Lo</i> Discussant(s): <i>Aboubakary Diakhaby, Bidounga Rufin, Cheikh Tidiane Seck, Kpazou Tchilabalo</i>

IPS114 Room :	Nonparametric methods: Theory and applications Organiser(s): <i>Taoufik Bouezmarni</i> Chair(s): <i>Taoufik Bouezmarni</i> Conditional copulas: inference for no covariates effect <i>Irène Gijbels</i> On smooth density estimation for circular data <i>Yogendra Chaubey</i> The distribution of mutual fund performance <i>Olivier Scaillet</i> Discussant(s): <i>Aurore Delaigle, Olivier Scaillet</i>
IPS115 Room :	Measuring income and well-being through longitudinal household surveys Organiser(s): <i>Mohammed El Haj Tirari</i> Chair(s): <i>Mohammed El Haj Tirari</i> Weighting and analysis of non-proxy subjective well-being responses in the Survey on Income and Living Conditions <i>Salah Merad</i> Discussant(s): <i>Pierre Lavallé</i>
IPS119 Room :	Models and algorithms for network data Organiser(s): <i>Antonietta Mira</i> Chair(s): <i>Kerrie Mengersen</i> Analyzing relational events via marginal models with individual-specific effects <i>Antonietta Mira</i> Bayesian analysis of ERGM for large networks using component decomposition with an application to a large criminal network <i>Johan Koskinen</i> Modeling Homophily in ERGMs for Bipartite Networks <i>David Hunter</i>
IPS130 Room :	How to improve the acquisition of statistical knowledge in university students? The effects of non-cognitive factors of statistics learning in different educational and cultural contexts Organiser(s): <i>Caterina Primi</i> Chair(s): <i>Nora Abbiati</i> Attitudes and learning approaches: modelling a pathway to achievement in statistics <i>Francesca Chiesi</i> Attitudes and learning strategies related to statistics performance in non-statistical university programs in Argentina. <i>Maria Del Carmen Fabrizio</i> The relationship between learning approaches and students' achievements in a third year statistics unit in Australia <i>Ayse Aysin Bilgin</i> Discussant(s): <i>Corinne Hahn</i>
IPS139 Room :	Statistical Methods for HIV/AIDS Research Organiser(s): <i>Brett Hanscom, Sahar Zangeneh</i> Chair(s): <i>Sahar Zangeneh</i> Analysis of the Impact of the heterogeneity in exposure to HIV on the results of HIV prevention trials <i>Dobromir Dimitrov</i> Design and Analysis Issues Associated with Community-Based Trials: HIV Test and Treat (The SEARCH Study) and Eliminating Dengue Fever <i>Nicholas Jewell</i> HIV prevention trial design in the era of highly effective prevention <i>Deborah Donnell</i> Robust Estimation Methods for Generalized Change-point Models with an Application to HIV-Surveillance Data <i>Jean De Dieu Tapsoba</i>

<p>STS016 Room : A. -1.05</p>	<p>Challenges and options of the collection of granular data on credit and credit risk Organiser(s): <i>Catherine Ahsbahs</i> Chair(s): <i>Jean-Marc Israël</i> Collecting Counterparty reference data for AnaCredit <i>Lukas Simhandl</i> Linking Debt Securities to the Statistical Business Register <i>Ronald Jansen</i> Malaysia's Experience in Managing the Credit Registers <i>Zima Mazfahani Mazlan</i> Register of Institutions and Affiliates Database (RIAD): modelling for flexibility <i>Michele Romanelli</i> TBD <i>Renato Baldini Jr.</i> Discussant(s): <i>Laura Mellone</i></p>
<p>STS036 Room : A. -1.06</p>	<p>Celebrating 35 Years of Danny Pfeffermann's Contributions to Modern Survey Sampling Organiser(s): <i>Li-Chun Zhang, Natalie Shlomo, Nikos Tzavidis</i> Chair(s): <i>Natalie Shlomo</i> A Time Series approach to Small Area Estimation with Benchmarking <i>Richard Tiller</i> Estimation of Mean Squared Error of X-11-ARIMA and Other Estimators Of Time Series Components <i>Michael Sverchkov</i> Notes on Bayes-based non-Bayesian likelihood estimation <i>Li-Chun Zhang</i> Discussant(s): <i>Pedro Silva</i></p>
<p>STS055 Room : A. -1.09</p>	<p>Benchmarking gender matters on basis of statistics. Organiser(s): <i>Bouchra Bouziani</i> Chair(s): <i>Francesca Grum</i> Gender equality indicators in Denmark <i>Maria Boye</i> Gender Wage Gap in Morocco: What can statistics tell us? <i>Mustapha Zirolli</i> Monetary Cost of Violence against Women VAW in Jordan <i>Manal Sweidan</i> Discussant(s): <i>Joann Vanek</i></p>
<p>STS059 Room : A. 1.17</p>	<p>Improving surveillance of the money markets Organiser(s): <i>Josep Maria Puigvert Gutierrez</i> Chair(s): <i>Jean-Marc Israël</i> Improving the Bank of England's understanding of sterling money markets using transaction-level data <i>Robert Harris</i> Initial statistical findings on the new Money Market Statistical Reporting <i>Josep Maria Puigvert Gutierrez</i> The Money Market Information Model of Banco de Mexico <i>Alejandro Gaytán</i> The Money Market Information Model of Banco de México <i>José Fernando Guzmán Robles</i> Discussant(s): <i>Ronald Rühmkorf</i></p>

STS063 Room : A. 1.19	Transformative agenda in statistics and capacity building of NSS Organiser(s): <i>Stephan Krische</i> Chair(s): <i>Carina Fransen</i> TBD <i>Besa Muwele</i> TBD <i>Matthew Shearing</i> TBD <i>Phonesaly Souksavath</i> The Data Revolution for Sustainable Development - Challenges and Opportunities in Small Island Developing States <i>Philomen Harrison</i> Discussant(s): <i>Gabriel Gamez</i>
STS080 Room : A. -1.07	Full International and Global Accounts for Research in Input-Output Analysis: EU input to the Trade in Value Added Statistics Organiser(s): <i>Silke Stapel-Weber</i> Chair(s): <i>Nadim Ahmad, Silke Stapel-Weber</i> FIGARO "Full International and Global Accounts for Research in Input-Output Analysis": the methodological challenge of trade data <i>Jose Manuel Rueda Cantuche</i> TBD <i>Fabienne Fortanier</i> The Eurostat-JRC project FIGARO "Full International and Global Accounts for Research in Input-Output Analysis" : European Inter-Country Supply, Use and Input-Output tables <i>Isabelle Remond-Tiedrez</i>
STS734 Room : B. 1.04	Statistical Authorities role in monitoring & achieving the Sustainable Development Goals SDGs Organiser(s): <i>Mohamed Ismail</i> Chair(s): <i>Aboubakr Elgendy</i> Official Statistics in Monitoring and Achieving Goal 1 of SDGs; With Illustrations from Egypt <i>Heba El Laithy</i> TBD <i>Mohamed Salimi</i> TBD <i>Magued Osman</i> TBD <i>Tara Vishwanath</i> Towards an integrated system to monitor the implementation of the national and international sustainable development goals <i>Nehal El-Megharbel</i> Discussant(s): <i>Mohamed Ismail</i>
OR-A14 Room : A. -1.11	Applications 14 Fitting a generalised extreme value distribution to four candidate annual maximum flood heights time series models in the lower Limpopo River basin of Mozambique <i>Daniel Maposa</i> Measure up: A Better Way to Calculate GDP <i>Marco Marini</i> Phoebe Framework and Its Experimental Results for Estimating Fetal Weight and Age <i>Loc Nguyen</i> Towards more interactive learning in statistical literacy <i>Jukka Hoffren</i>

OR-B19 Room : A. 1.13	Methods and Theory 19 A Bayesian Semiparametric Approach for Analysing the Effect of Longitudinal Covariate Profiles on a Continuous Outcome <i>Dhiman Bhadra</i> An Study on Comparing Distance-based and Probability-based Discrimination Methods for Planar Shape Data <i>Mousa Golalizadeh</i> GAS models with stable distributions: stationarity conditions and some applications <i>Daniel Takata Gomes</i> Pseudo-Gaussian Test of AR(p) Against an EXPAR(p) Involving Nuisance Parameters which are Present Only Under the Alternative <i>Nabil Azouagh</i> Regression estimation by local polynomial fitting for multivariate data stream <i>Amiri Aboubacar</i> Sequential design of experiments to estimate a probability of exceeding a threshold in a multi-fidelity stochastic simulator <i>Rémi Stroh</i>
OR-B22 Room : A. 1.14	Methods and Theory 22 Multivariate Elliptical Truncated Moments <i>Juan Arismendi</i> On the solvability of FBSDE driven by lévy process <i>Nabil Khelfallah</i> Preliminary test stochastic ridge regression estimators with elliptical t-errors and conflicting test statistics <i>Mohammad Karbalaee</i> Rumor processes on N and discrete renewal processes <i>Nancy Garcia</i> Shrinkage estimation in multivariate-t regression model with stochastic restrictions <i>Reza Fallah</i> Stylized facts in immature and mature stock markets: univariate and multivariate analyses using copula modelling <i>Mhamed-Ali El-Aroui</i>

PP-E02 Room : A. 0.21	<p>Business & Industry 02</p> <p>A Simulation of Rolling Sample Design Using Restaurant Web Data <i>Mikio Suga</i></p> <p>Agricultural statistics in Morocco: To a diversity of sources of agricultural statistics <i>Said Saghir Zarouali</i></p> <p>Analysis of determinants of coffee farm gate prices in Uganda <i>Christopher Lubega</i></p> <p>Automatic coding via SICORE applied to the treatment of the administrative sources of High Commission for Planning (HCP) of Morocco <i>Georges Bourdalle</i></p> <p>Compiling financial accounts: a European perspective <i>Caroline Willeke</i></p> <p>Credit scoring and its implementation: Setting the cut-offs <i>Mehdi Bazzi</i></p> <p>Developing a digital tool for the Office for National Statistics to report on the UN Sustainable Development Goals <i>Ioannis Tsalamani</i></p> <p>Estimating the growth-maximizing tax rate for Benin: Evidence and implications <i>Apollos Djogbenou</i></p> <p>Joint Modelling of Rainfall and Temperature in Bahir Dar, Ethiopia: Application of Copula <i>Haile Fenta</i></p> <p>Modeling of extreme seasonal values: cases of high temperature intensities <i>Moumouni Diallo</i></p> <p>Modelling the Effect of a Shock in Human Capital Development on Long-Term Growth and Development: Evidence From a Panel Error Correction Model in Africa <i>Jean Baptiste Habyarimana</i></p> <p>Profile analysis of clustered European countries based on selected variables impacting the e-commerce realized by individuals <i>Ksenija Dumicic</i></p> <p>Research on the Definition and Statistical Classification Criteria of Beijing's Cutting-edge Technology Industry <i>Chong Zhou</i></p> <p>THE CHALLENGES FOR IMPROVING STATISTICAL LITERACY IN DEVELOPING COUNTRIES; CASE STUDY OF TANZANIA <i>Elieza Paul</i></p> <p>The Finance-Growth Nexus: Evidence from Stock Return Analysis in Malaysia <i>Zarinah Yusof</i></p> <p>The STATs UP project: Collaboration of Civil society with National Statistic Offices in Geo Data for a real Data Revolution <i>Javier Carranza Torres</i></p>
--	---

IPS001 Room :	ISI President's Invited Keynote Lecture Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> Data science in the tidyverse <i>Hadley Wickham</i>
--------------------------------	---

IPS005 Room :	ISI Pearson Prize Lecture Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> Statistical Analysis with Missing Data: Past, Present and Future <i>Roderick Little</i>
IPS120 Room :	Telling statistical stories and teaching good data sense to the public Organiser(s): <i>Albert Bailer, Regina Nuzzo</i> Chair(s): <i>Albert Bailer</i> Accountability in an empire of data: what do journalists need to know about statistics? <i>Trevor Butterworth</i> Bringing statistics to humanitarian causes and government organizations <i>Liberty Vittert</i> Why journalists are afraid of uncertainty, and what statistics can do to fix that <i>Regina Nuzzo</i>
IPS125 Room :	ASMBI session Organiser(s): <i>Fabrizio Ruggeri</i> Chair(s): <i>Fabrizio Ruggeri</i> Computational Advertisement and Its Meta Analysis in Practice <i>Hongxia Yang</i> Discussant(s): <i>David Banks, Quan Lu</i>
IPS151 Room :	Environmetrics Journal IPS Organiser(s): <i>Walter Piegorsch</i> Chair(s): <i>Christopher Wikle</i> Spatio-temporal models for skewed processes <i>Alexandra Schmidt</i> Discussant(s): <i>Jonathan Stroud, Marc Genton</i>
IPS152 Room :	International Statistical Review (ISR) Session Organiser(s): <i>Nalini Ravishanker, Ray Chambers</i> Chair(s): <i>Ray Chambers</i> Statistical Inference, Learning and Models for Big Data <i>Nancy Reid</i> Discussant(s): <i>Genevra Allen, Ralf Münnich</i>

PO-B28 Room : A. 0.20	Methods and Theory 28 SARFIMA Integer-Valued Processes <i>Silvia Lopes</i> The Kumaraswamy Normal Regression Model: Theory and Applications <i>Denise Botter</i>
PO-B29 Room : A. 0.20	Methods and Theory 29 Comparison of Several Approaches of Variable Selection in Regression Fields <i>Youssef Idelcaid</i> Methods for Correcting Risk Factor Misclassification in the Partial Population Attributable Risk <i>Benedict H W Wong</i> Shrinkage Estimation of the Finite Population Mean in a General Linear Model Under Uncertain Prior Information <i>Ibrahim Hanaish</i> The four Enem areas tests as a single exam at the unidimensional and multidimensional Item Theory Response models view <i>Nara Nubia Vieira</i>
PO-G05 Room : A. 0.20	Survey Statistics 05 Analysis of panel data <i>Ahmed Amin</i> Comparison between estimates for proportion: The case of the ICT in Education Survey <i>Isabela Coelho</i> Logistic Regression Modelling for Complex Survey Data with an Application for Bed Net Use in Mozambique <i>Sheyla Cassy</i> On change points analysis based on resampling methods <i>Asanao Shimokawa</i> TabuladorBeta - A system to transform raw data in planned survey data tables <i>Marcelo Pitta</i> Using an innovative register-based data source of emigrant stock from Israel linked with the integrated census data. The combination of these files provides wide and comprehensive information that allowed for an accurate estimation of who in the populatio <i>Michal Sabah</i> Using Face book in raising awareness with the Egyptian Census 2017 <i>Waleed Abdelkhalik Mohammed</i>

IPS019 Room :	New methods for new data: application of models in official statistics production Organiser(s): <i>Dario Buono</i> Chair(s): <i>Emanuele Baldacci</i> Recent advances in changepoint detection and their application in official statistics <i>Eckley Idris</i> Reporting uncertainties - too much information? <i>Gianluca Iaccarino</i> Time series models for combining survey and new data sources in the production of official statistics <i>Duncan Elliot</i> Discussant(s): <i>Aston Jonh, Vince Galvin</i>
IPS039 Room : A. -1.02	Global, regional, national and thematic monitoring of the SDGs Organiser(s): <i>Nicola Massarelli, Tiina Luige</i> Chair(s): <i>Nicola Massarelli</i> Conference of European Statisticians Road Map on Statistics for SDGs <i>Tiina Luige</i> National Reporting of SDGs in Canada <i>Cara Williams</i> Reporting on full and productive employment and decent work for all: linking national SDG data reporting with the global agenda <i>Steven Kapsos</i> Sustainable Development Goals' Reporting at Global, Regional and National Levels: A UK Perspective <i>Emma Rourke</i> Discussant(s): <i>Enrique Jesus Ordaz Lopez</i>
IPS059 Room :	Recent advances in Bayesian modelling of spatial and spatio-temporal data Organiser(s): <i>Sujit Sahu</i> Chair(s): <i>Peter Challenor</i> A network state space model with an application to assessing ALS disease progression <i>Huiyan Sang</i> Bayesian spatio-temporal point level modelling of air pollution concentration levels for estimating long term exposure in coarser administrative geographies in England and Wales. <i>Sujit Sahu</i> Combining ecological and individual scale data through generalised propensity scores: an application to assess the long term respiratory effects of air pollution <i>Monica Pirani</i> Global Estimation of Air Quality and the Burden of Disease associated with Ambient Air Pollution <i>Gavin Shaddick</i> Spatio-temporal modelling for estimating air pollution exposure in Santiago de Chile <i>Orietta Nicolis</i>

IPS073 Room :	Innovative Approaches for Agricultural and Rural Censuses Organiser(s): <i>Barbara Rater</i> Chair(s): <i>Barbara Rater</i> Innovative Approaches for Agricultural Census in Georgia <i>Maia Guntsadze</i> New approaches for the Agricultural Census in Brazil <i>Octavio Costa De Oliveira</i> Small Area Estimation for Crop Acreage in Remote Sensing Measurement of Chinese Agricultural Census?A Case of Major Crop Acreage Estimation in Liaoning Province <i>Zhou Wei</i> The 2017 U.S. Census of Agriculture: Calibration and Rounding <i>Linda Young</i> Discussant(s): <i>Eva Laczka</i>
IPS094 Room :	Approaches to promote comparability in household surveys across countries: Results of Recent Testing by International Organizations in follow-up to the 19th International Conference of Labour Statisticians (ICLS) Organiser(s): <i>Elisa Munoz Franco Benes</i> Chair(s): <i>Alain Vuille</i> Measuring Farm Labor in Ghana and Tanzania <i>Isis Gaddis</i> Measuring labour on agricultural holdings through agricultural surveys: FAO experience with the Agricultural Integrated Survey (AGRIS) <i>Chiara Brunelli</i> Questionnaire testing around the world and back: Results of the testing of the new international standards on statistics of work, employment and labour underutilization <i>Elisa Munoz Franco Benes</i> Towards input harmonisation for the measurement of employment and unemployment in the European Union <i>Fabienne Montaigne</i> Discussant(s): <i>Tite Habiyakare</i>
IPS099 Room : A. 1.16	Modernisation of official statistics: how developing and transition countries can benefit of the existing initiatives Organiser(s): <i>Jose Cervera-Ferri</i> Chair(s): <i>José Cervera-Ferri</i> Analysis of the implementation of standardized frameworks as means to modernize the production of statistical and geographical information in Mexico's National Statistical Office <i>Enrique De Alba</i> Modernization of National Statistical Systems ? Challenges and Benefits Petteri Baer* Ably Services Ltd., Helsinki, Finland, petteri456@hotmail.com Abstract The international development community finances the development of statistical systems all over t <i>Petteri Baer</i> National implementation of the GSBPM ?The Egyptian Experience <i>Ayman Hathoot</i> The main challenges related to the rebuilding of INDEC in the Republic of Argentina <i>Jorge Todesca</i> The use of administrative registers <i>Bouazza Bouchkhar</i> Discussant(s): <i>Alphonse Macdonald</i>

IPS118 Room :	Advanced Methodological Contributions in Time Series Literature Organiser(s): <i>Abdou K Diongue, Dahud Kehinde Shangodoyin</i> Chair(s): <i>Julie Novak</i> Multiple Seasonal ARFIMA model with BL-GARCH type innovations <i>Mor Ndongo</i> Simulated Hellinger disparity estimation of a cyclical long memory process <i>Ouagnina Hili</i> TBD Discussant(s): <i>Abdou K Diongue</i>
IPS137 Room :	Recent Advances in Big Data Inference with Network Structures Organiser(s): <i>Zhao Ren</i> Chair(s): <i>Robert Krafty</i> Convexified Modularity Maximization for Degree-corrected Stochastic Block Models <i>Xiaodong Li</i> Covariate-Adjusted Latent Semiparametric Graphical Model and its Applications in Structure Biology <i>Wen Zhou</i> Inference in High-Dimensional Semi-Parametric Graphical Models <i>Mladen Kolar</i> Theoretical and Computational Guarantees for Mean-Field Variational Bayes Method on Community Detection <i>Anderson Zhang</i>
IPS141 Room :	Can Agricultural Statistics benefit from Big Data? Organiser(s): <i>Jacques Delince</i> Chair(s): <i>Jacques Delince</i> Assessment of the performance of ESA's Sentinel-2 for use in African agricultural statistics: learnings from the STARS and sen2agri projects in Mali <i>Pierre Traore</i> Discussion on visual inference <i>Heike Hofmann</i> Early estimates of US crop areas and production from real time monitoring of field machinery <i>Mathew Meisner</i> Discussant(s): <i>Siu-Ming Tam</i>
IPS156 Room :	Recent developments in time series modelling and applications Organiser(s): <i>Ibrahim Mohamed</i> Chair(s): <i>Mohamad Mahidin</i> Forecasting daily wind speed using hybrid Kalman filter and artificial neural network method <i>Muhammad Hisyam Lee</i> Moment properties and quadratic estimating functions for integer-valued time series models <i>Ibrahim Mohamed</i> Recent developments in modelling time varying parameters and applications <i>Aerambamoorthy Thavaneswaran</i> Scale Mixture of Skewed Kalman Filter and Its Application <i>Yoshinori Kawasaki</i> Discussant(s): <i>Azami Zaharim</i>

<p>STS017 Room : A. -1.07</p>	<p>Falsifications in socio-economic statistics and counter measure techniques Organiser(s): <i>Vasiliy Simchera</i> Chair(s): <i>Jozef Olenski</i> Bilateral technologies to counteract the official data falsifications: methods and evaluation <i>Vasiliy Simchera</i> Bilateral technologies to counteract the official data falsifications: methods and evaluation <i>Sergey Nesterov</i> How to organise the production of cross-border statistics? <i>Johan Van Der Valk</i> TBD <i>Yuri Boshytsky</i> Transborder statistical capacity building <i>Jozef Olenski</i> Transborder statistics as a quantitative reflection of modern transborder processes <i>Serghii Ustich</i> Well-being paradox in transborder areas - objective and subjective measures <i>Marek Ciepiak-Wolan</i> Discussant(s): <i>Misha Belkindas</i></p>
<p>STS039 Room : A. -1.06</p>	<p>Recent Advances in High-Dimensional Time Series Analysis and Applications to Brain Imaging Organiser(s): <i>David Degras</i> Chair(s): <i>John Aston</i> Clustering of Brain Signals using the Hierarchical Spectral Merger (HSM) method <i>Carolina Euá N</i> Data Visualization and Exploratory Analysis of High Dimensional Time Series <i>Hernando Ombao</i> Dynamic Brain Connectivity: A Group Fused Lasso Approach <i>David Degras</i> Estimating Dynamic Connectivity States in High-Dimensional Brain Signals Using Regime-Switching Factor VAR Models <i>Chee-Ming Ting</i> Fast Sparse Matrix Factorization for Huge Brain-Imaging Data <i>Arthur Mensch</i></p>
<p>STS075 Room : A. -1.05</p>	<p>Statistics in High dimension and applications(double) Organiser(s): <i>Abdallah Mkhadri, Karim Oualkacha</i> COLUMN SUBSET SELECTION AND APPLICATIONS TO COMPRESSED SENSING AND FEATURE EXTRACTION <i>Stéphane Chrétien</i> Joint Estimation of Multiple Dependent Gaussian Graphical Models <i>Yuying Xie</i> Model-Based Co-Clustering of Multivariate Functional Data <i>Christophe Biernacki</i> Principal component of explained variance: an efficient and optimal data dimension reduction framework <i>Aurelie Labbe</i> The Latent Block Model: a useful model for high dimensional data <i>Christine Keribine</i></p>
<p>OR-B27 Room : A. -1.11</p>	<p>Methods and Theory 27 A Bayesian Analysis of the Incomplete Block Crossover Design <i>Mingan Yang</i> Heterogeneous Reciprocal Graphical Models <i>Yan Ni</i> Spatiotemporal Predictions using Multivariate Singular Spectrum Analysis <i>Richard Awichi</i></p>

<p>OR-C03 Room : A. 1.13</p>	<p>Statistical Computing 03 A coordinate descent algorithm for computing penalized smooth quantile regression <i>Mohamed Ouhourane</i> Bankruptcy prediction using hybrid neural networks with "Colonies of ants and defect ceiling" <i>Said Marso</i> Case studies in applied statistics using R <i>Wessel (Henri) Moolman</i> Simple Exact Optimal Sample Allocation Algorithms <i>Tommy Wright</i> Surrogate-based optimization using Mutual Information for Computer Experiments (MICE) <i>Theodoros Mathikolonis</i></p>
<p>OR-C03 Room : A. 1.13</p>	<p>Statistical Computing 3 A coordinate descent algorithm for computing penalized smooth quantile regression <i>Mohamed Ouhourane</i> Bankruptcy prediction using hybrid neural networks with "Colonies of ants and defect ceiling" <i>Said Marso</i> Case studies in applied statistics using R <i>Wessel (Henri) Moolman</i> Simple Exact Optimal Sample Allocation Algorithms <i>Tommy Wright</i> Surrogate-based optimization using Mutual Information for Computer Experiments (MICE) <i>Theodoros Mathikolonis</i></p>
<p>OR-E04 Room : A. 1.14</p>	<p>Business & Industry 4 Financial liberalization and occurrence of banking crises in the North Africa region: an investigation by a panel logit model <i>Ahmed Khattab</i> FUZZY TIME SERIES MARKOV CHAIN FOR FORECASTING THE EXCHANGE RATE OF INDONESIAN RUPIAH TO US DOLLAR <i>Sofyan Hizir</i> Modeling the yields curve of Sukuk Ijarah <i>Dedi Rosadi</i> Television Audience Measurement in Morocco: Methodology, Challenges and Perspectives. <i>Rachida Naitiaz</i></p>

IPS041 Room :	New advances in applied Bayesian Nonparametrics Organiser(s): <i>Raffaele Argiento</i> Chair(s): <i>Igor Prünster</i> A Bayesian Nonparametric approach for the analysis of multi-subject fMRI data <i>Michele Guindani</i> A Bayesian nonparametric linear dependent model for the analysis of taxonomic abundances in microbiome data <i>Raffaele Argiento</i> Bayesian Inference for the Extremal Dependence <i>Isadora Antoniano Villalobos</i> Using Partition Models to Find Interactions <i>Garrit Page</i>
IPS090 Room :	Methods for analysis of public use survey data reporting replicate weights Organiser(s): <i>J. N.K. Rao</i> Chair(s): <i>David Haziza</i> dddd <i>Chris Skinner</i> Empirical likelihood inference with public-use survey data <i>J. N. K. Rao</i> Hypothesis testing from complex survey data using bootstrap weights: a unified approach <i>Jae Kim</i> Discussant(s): <i>Jiahua Chen</i>
IPS097 Room : A. 1.16	GDP and beyond: recent developments in measuring and analyzing well-being Organiser(s): <i>Bernd Stoertzbach</i> Chair(s): <i>Sibylle Von Oppeln-Bronikowski</i> GDP and Beyond: Measuring In Well-Being (Tanzania) This paper discusses inter alia, the current debate between policy makers and public at large on how the economic growth though steadily increasing at an annual average of seven percent does not translate <i>Gabriel Kulomba Simbila</i> The Dissemination Game. How to communicate official statistics to non-expert users <i>Hannah Thomas</i> Well-being from the perspective of Germany's official statistics <i>Susanne Schnorr-Baecker</i> Discussant(s): <i>Pierre Lamarche</i>
IPS103 Room :	Recent Developments in Copula Models Organiser(s): <i>Louis-Paul Rivest</i> Chair(s): <i>Taoufik Bouezmarni</i> A prospective likelihood copula-based approach for the analysis of secondary phenotypes in ascertained samples <i>Karim Oualkacha</i> An alternative to the use of empirical copulas: the copula characteristic function <i>Tarik Bahraoui</i> eeee <i>Claudia Czado</i> Discussant(s): <i>Louis-Paul Rivest</i>
IPS110 Room :	Recent Advances in Lifetime Data Analysis Organiser(s): <i>Mei-Ling Ting Lee</i> Chair(s): <i>Christos Kitsos</i> Nonparametric Inference for Current Status Models <i>Xingqiu Zhao</i> Prova <i>Mei-Cheng Wang</i>

IPS135 Room :	Multiple Imputation methods for Survey Nonresponse Organiser(s): <i>Sahar Zangeneh</i> Chair(s): <i>Jean De Dieu Tapsoba</i> Imputations for different types of nonresponse in longitudinal surveys <i>Shahab Jolani</i> Model-based methods for missing data in surveys with post-stratification information <i>Sahar Zangeneh</i> Multiple Imputation of Missing Administrative Data to Adjust for Record Linkage Nonresponse <i>Joseph Sakshaug</i> Discussant(s): <i>Heeringa Steven</i>
IPS143 Room :	Models and Visualization for Exploratory Analysis of Big Data Organiser(s): <i>Genevera Allen</i> Chair(s): <i>Matthew Parry</i> Higher-Order Supervised Dimension Reduction Methods: Applications to Electrocardiography <i>Genevera Allen</i> Managing multiple models <i>Hadley Wickham</i> Measuring Connectivity in the Financial Sector <i>George Michailidis</i> Discussant(s): <i>John Aston</i>
IPS155 Room :	Water Resources and Hydrology Organiser(s): <i>Fadhilah Yusof</i> Chair(s): <i>Zulkifli Yusop</i> Characterizing & Modeling of Extreme Rainfall in Peninsular Malaysia: Bayesian vs Classical Approaches <i>Wan Zawiah Wan Zain</i> Developing Future Intensity-Duration-Frequency (IDF) Curves <i>Fadhilah Yusof</i> Short-Term Variability of Johor River Discharge Based on Wavelet Analysis. <i>Norhaiza Ahmad</i> Discussant(s): <i>Sunmin Kim</i>
IPS158 Room :	Harnessing the power of data for sustainable development: Bringing data communities together Organiser(s): <i>Francesca Perucci</i> Chair(s): <i>Francesca Perucci</i> Counting People to make People Count <i>Enrique Jesus Ordaz Lopez</i> Exploring and integrating new data sources <i>Linda Peters</i> Making Data Speak to the Public <i>Baah Wadieh</i> Discussant(s): <i>Philipp Schönrock , Shaida Badiee</i>

<p>STS025 Room : A. -1.07</p>	<p>Measuring services trade in the globalised world Organiser(s): <i>Riina Kerner</i> Chair(s): <i>Riina Kerner</i> Portrait of the firm who is trading services internationally: number of employees, ownership, and main activity <i>Veijo Ritola</i> Spanish approach for measuring trade in services by enterprise characteristics and by modes of supply <i>Jose Antonio Isanta Foncuberta</i> TBD <i>Fabienne Fortanier</i> Towards a Global Data Set on Trade in Services by Sector and Mode of Supply <i>Andreas Maurer</i> TRADE IN SERVICES BY GATS MODES OF SUPPLY: STATISTICAL CONCEPTS AND FIRST EU ESTIMATES <i>Lucian Cernat</i> Discussant(s): <i>Steve Macfeely</i></p>
<p>STS035 Room : A. -1.06</p>	<p>Strategies and methods for dealing with population over-coverage in administrative data Organiser(s): <i>Tracey Savage</i> Chair(s): <i>Patrick Graham</i> Administrative Records and Over-coverage in the Statistical Business Register at INEGI <i>Enrique De Alba</i> Estimating and adjusting for over-coverage when using administrative data: Stats NZ's 2018 Census and future census model <i>Tracey Savage</i> Estimating population size from multisource data: a Bayesian perspective to latent class modelling. <i>Davide Di Cecco</i> Trimmed Dual System Estimation (TDSE) and the hunt for overcoverage <i>John Dunne</i> Discussant(s): <i>Li-Chun Zhang</i></p>
<p>STS057 Room : A. -1.09</p>	<p>Integrating capability elements to enhance the general value of assets and skills within Statistical Institutes Organiser(s): <i>Nadia Mignolli, Piero Falorsi</i> Chair(s): <i>Tudorel Andrei</i> Competency Measurement Model <i>Dario Russo</i> Istat's Business Architecture model for identifying the capabilities required by the internal modernisation process <i>Giulio Barcaroli</i> Standardisation approach within the National Institute of Statistics from Romania <i>Claudia Capatina</i> TBD <i>Roberta Pace</i> TBD <i>Thomas Laitila</i> Discussant(s): <i>Nadia Mignolli</i></p>

STS067 Room : A. 1.17	Monetary and Economic Statistics in Data Rich Environments Organiser(s): <i>Arnab Bhattacharjee</i> Chair(s): <i>Arnab Bhattacharjee</i> Identifying the objectives of the monetary authorities in 'advanced' economies <i>David Cobham</i> Spatial Gravity Model for International Trade in the GCC countries <i>Yacine Belarbi</i> TBD <i>Arnab Bhattacharjee</i> TBD <i>Radha Binod Barman</i> TBD <i>Tapa Maiti</i> Discussant(s): <i>Taps Maiti</i>
STS069 Room : A. 1.19	Statistical Data and Metadata eXchange (SDMX), a global standard for quality statistics. Organiser(s): <i>Alessandro Bonara</i> Global Data Structure Definitions: Providing a standard reporting framework and governance model <i>Peter Van Der Ven</i> SDMX, a key standard for central banks statistics <i>Bruno Tissot</i> Statistical data and metadata eXchange (SDMX): a global standard for quality statistics <i>Jimmy Mchugh</i> The Africa Information Highway, the role of SDMX in modernizing data reporting in Africa <i>Rafik Mahjoubi</i> The Role of SDMX in Official Statistics - A European Central Bank Perspective <i>Alessandro Bonara</i>
STS073 Room : A. -1.05	Voluntary vs Mandatory Surveys: What are the Challenges? Organiser(s): <i>Jean-Louis Bodin</i> Chair(s): <i>Jean-Louis Bodin</i> Mandatory surveys: how does it work in France? <i>Jean-Pierre Le Gleau</i> Place and prospects of voluntary surveys in sub-Saharan Africa <i>Paul-Henri Nguema-Meye</i> TBD <i>Victoria Velkoff</i> The return of the mandatory census long form : end of the statistical confidence crisis in Canada ? <i>Jean-Pierre Beaud</i>
OR-A11 Room : A. -1.11	Applications 11 Accessibility of the rural population to road infrastructure using the statistical approach <i>Mostafa Abdeli</i> An Asymmetric Probability Model for Circular data: Wrapped Erlang distribution with Application to Blue Periwinkles <i>Shongkour Roy</i> Assessment of and Reflection on Chinese Pilot Program for Compiling Subnational Asset Accounts of Natural Resources <i>Han Shi</i> Non Homogeneous Hidden Markov Model for Daily Precipitations NHHMDP <i>Nestor Bokossa</i> Small Area Poverty Estimation under Heteroskedasticity: An Application to Bangladesh <i>Sumonkanti Das</i>

<p>OR-A15 Room : A. 1.13</p>	<p>Applications 15 A survival model with Birnbaum-Saunders frailty for uncensored and censored cancer data <i>Vera Tomazella</i> Employment and labour market dynamics: Empirical analysis using a duration model <i>Nawal Zaaï</i> Estimation in Oil Forward Price Models Implied by Real World Pricing-A Filtering Approach <i>Yassine El Qalli</i> Measuring and mapping multidimensional poverty in Morocco (GPHC 2004 and GPHC 2014) <i>Fouzia Daoudim</i></p>
<p>OR-B20 Room : A. 1.14</p>	<p>Methods and Theory 20 Classifying Punjabi Poetry Using Lexical and Syntactic Features with TF-IDF Weighting and Gain Ratio Ranking <i>Jasleen Kaur</i> Hidden Markov Models for Quarantine Interceptions <i>Stephen Lane</i> On the Beran Estimator for the Weibull-Type Tail Coefficient <i>Tchilabalo Kpanzou</i> Practical problems with tests of cointegration rank with strong persistence and heavy-tailed errors: an application to the pricing of risk in the long run <i>Niklas Ahlgren</i> The fusion of PCA and CIDI methodology as the foundation of the ARWU-THE-QS university ranking index</p>

PP-G04 Room : A. 0.21	<p>Survey Statistics 04</p> <p>Census quality assurance: a case study on projection of Egypt 2017 E-census <i>Said Mohammed Abdelrahman</i></p> <p>CPI-Based Outputs and Uses ? Abu Dhabi Experience <i>Muna Al Suwaidi</i></p> <p>Diagnose: an online learning analytics service that helps to detect individual statistical misconceptions <i>Pim Bellinga</i></p> <p>Egypt Census of Population, Housing and Establishments 2016 Challenges and Development <i>Amal El Sharnoby</i></p> <p>Eliminating diseases prevalence through Applying technological techniques in statistical surveys <i>Nehall Farouk</i></p> <p>Estimators of Intracluster Correlation Coefficients for Binary Outcomes: Comparison Using a Health Multicountry Survey <i>Cristina Cuesta</i></p> <p>Methodological adjustment in subjective measurements to improve data quality and individual freedoms <i>Jhoner Perdomo</i></p> <p>Modelling opinion on legalization of recreational use of marijuana with a survey of Rio de Janeiro residents <i>Andrea Diniz Da Silva</i></p> <p>Non-US-Citizens Earning Doctoral Degrees in Statistics and Biostatistics Departments in the US <i>Amanda Golbeck</i></p> <p>Reviewing the Choice of Index formula in the Korean Consumer Price Index -Regarding the Revision of the Weight Updates for the Korean CPI- <i>Sung Joo Lim</i></p> <p>Small Area Estimation for multivariate repeated measures data <i>Innocent Ngaruye</i></p> <p>Teaching basic statistics to blind students <i>Shu Wei Chou Chen</i></p> <p>Towards Constructing Egyptian Consumer Confidence Index(ECCI) based on Social Media <i>Sahar Ammar</i></p> <p>Using the new urban-rural classification in estimating regional apartment prices <i>Atro Andersson</i></p> <p>Work longer, learn longer: evidence from Italian Adult Education Survey (AES) <i>Paolo Emilio Cardone</i></p>
--	--