

<p><b>IPS002</b> Room : A.0.01</p>	<p><b>ISI invited session with Statistical Societies Presidents - RSS and ASA</b> Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> <b>Statistics: a front line weapon in the fight against alternative facts</b> <i>David Spiegelhalter</i> <b>The state of the statistics profession: it was the best of times, it is the best of times</b> <i>Barry Nussbaum</i></p>
<p><b>IPS124</b> Room : A.1.16</p>	<p><b>Selected papers from Stat: The ISI's Journal for the Rapid Dissemination of Statistics Research</b> Organiser(s): <i>Marc Genton</i> Chair(s): <i>Ying Sun</i> <b>A data-driven approach to conditional screening of high-dimensional variables</b> <i>Xuming He</i> <b>Multivariate spatio-temporal survey fusion with application to the American community survey and local area unemployment statistics</b> <i>Jonathan Bradley</i> <b>Visuanimation in statistics</b> <i>Marc Genton</i></p>
<p><b>IPS127</b> Room : A.-1.02</p>	<p><b>IASC President's Lecture</b> Organiser(s): <i>Patrick Groenen</i> Chair(s): <i>Patrick Groenen</i> <b>Statistical learning with Big Data</b> <i>Trevor Hastie</i></p>
<p><b>IPS132</b> Room : C.-1.02</p>	<p><b>Bernoulli Society Presidential Invited Lecture</b> Organiser(s): <i>Sara Van Der Geer</i> Chair(s): <i>Sara Van Der Geer</i> <b>Statistical tools for reproducible selections</b> <i>Emmanuel Candès</i></p>

<p>PO-A07 Room : A. 0.20</p>	<p><b>Applications 07</b>  <b>Applications of association rule mining between microbiome and cosmetic clinical signs</b>  <i>Hicham Noçairi</i>  <b>Convergence of a Continuous-Time Epidemic Model</b>  <i>Abdellah Ouldkhal</i>  <b>Explore the Pattern of Posing Expenses on Food in Households of Tehran city of Iran, Implementing Beta Regression Model</b>  <i>Lida Kalhori</i>  <b>False discovery rate control in association mapping under genetically structured populations</b>  <i>Monica Balzarini</i>  <b>Foreign Direct Investment and Economic Growth in Morocco : An Empirical Analysis</b>  <i>Chakib Abidi</i>  <b>Generalized Partially Linear Spatial Probit Model</b>  <i>Mohamed-Salem Ahmed</i>  <b>Measuring Violence Against Children in Egyptian Society</b>  <i>Haidy Mahmoud</i>  <b>Multivariate techniques applied to analyze the association between the Z-scan method and metabolic biomarkers</b>  <i>Elisete Aubin</i>  <b>On statistical capacity development in Africa: a functional data analysis approach</b>  <i>Banawe Anissa</i>  <b>Optimal Inflation for the Gambia: An ARDL Approach</b>  <i>Chioma Nwosu</i>  <b>Real situations on clinical research support and the role of biostatisticians in Japan</b>  <i>Makoto Tomita</i>  <b>Socioeconomic differences in the prevalence of care need among older men and women in Ghana</b>  <i>Bashiru Saeed</i>  <b>Spatial Analysis for Common Factors in Forced Migrations. Colombian Case</b>  <i>Carlos Mantilla Duarte</i>  <b>The determinants of the professional integration of young people aged 15 to 34 in Togo: microeconomic approach</b>  <i>Ayikoue Honore Agbobly-Atayi</i></p>
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<p>PO-B17 Room : A. 0.20</p>	<p><b>Methods and Theory 17</b> <b>A method for constructing multivariate distributions with given heterogeneous margins</b> <i>Salvatore Bologna</i> <b>Advances in the matrix-variate beta ensemble with Bayesian application</b> <i>Janet Van Niekerk</i> <b>Bayesian reliability analysis of a linear "consecutive-k-out-of-n" system</b> <i>Besma Bennour</i> <b>Beta-Gamma and Beta-Weibull regression models for survival times</b> <i>Curtis Miller</i> <b>Comparing cumulative incidence functions at a fixed point in time</b> <i>Chen Zheng</i> <b>Comparison of two crossing survival curves</b> <i>Chen Zheng</i> <b>Estimating the mean of a heavy-tailed distribution under random censoring</b> <i>Louiza Soltane</i> <b>Mark second-order characteristics for spatio-temporal point processes</b> <i>Francisco Rodríguez Cortés</i> <b>Predictive estimation of a covariance matrix and its structural parameters</b> <i>Haruhiko Ogasawara</i> <b>Search of linear combination of factors maximizing area under receiver operator characteristic curve</b> <i>Nicolae Todor</i> <b>Sensitivity Analysis for Instrumental Variables Regression: A Nonparametric Bayesian Approach</b> <i>Freddy López</i> <b>Theoretical and Simulation Results on Generalized Ornstein-Uhlenbeck Type Processes</b> <i>Silvia Regina Lopes</i> <b>Two-factor experiment analysis for replicated marked point patterns</b> <i>Jonatan A. González</i> <b>Visualizing changes in the distribution of relational data using dynamic reordering</b> <i>Parisa Rastin</i></p>
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<p><b>IPS100</b> Room : A.1.16</p>	<p><b>Development and Application of International Guidelines for Statistical Business Registers</b>  Organiser(s): <i>Michael Colledge</i>  Chair(s): <i>Oliver Chinganya</i>  <b>Abstract of "development and application of the SBR guidelines of the conference of European statisticians"</b>  <i>Ronald Jansen</i>  <b>Development and application of the African development bank statistical business register guidelines</b>  <i>Vikash Madhow</i>  <b>Establishing the statistical business registers in Asia</b>  <i>Eileen Capilit</i>  <b>Experiences in application of the European statistical system business registers recommendations manual</b>  <i>Amerigo Liotti</i>  Discussant(s): <i>Michael Colledge</i></p>
<p><b>IPS006</b> Room : C.-1.02</p>	<p><b>High-Dimensional Extremes: Models, Inference and Challenges</b>  Organiser(s): <i>Raphael Huser</i>  Chair(s): <i>Ivette Gomes</i>  <b>Extreme value theory without the largest values: what can be done?</b>  <i>Richard Davis</i>  <b>Modelling spatial processes with unknown extremal dependence</b>  <i>Jennifer Wadsworth</i>  <b>Models based on elliptical processes to bridge asymptotic dependence and independence in spatial extremes</b>  <i>Thomas Opitz</i>  <b>Semiparametric estimation of space-time extremes</b>  <i>Claudia Kluppelberg</i>  Discussant(s): <i>Raphael Huser</i></p>
<p><b>IPS011</b> Room : B.0.01</p>	<p><b>Synthetic Datasets for Statistical Disclosure Control - Research and Applications Around the World</b>  Organiser(s): <i>Joerg Drechsler</i>  Chair(s): <i>Joerg Drechsler</i>  <b>Synthetic business microdata - a possible dissemination tool</b>  <i>Chien-Hung Chien</i>  <b>Synthetic Data: A Way to Solve Small Area Estimation Problems</b>  <i>Partha Lahiri</i>  <b>Usage and outcomes from a validation server: experience with the cornell synthetic data server</b>  <i>Lars Vilhuber</i>  Discussant(s): <i>Linda Young</i></p>

<p><b>IPS022</b> Room : B.0.02</p>	<p><b>Statistical challenges for African central banks</b> Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Emmanuel Olorunsola Olowofeso</i> <b>Mobilising statistics in Africa: challenges and opportunities for central banks</b> <i>Jose Maria Serena</i> <b>Statistical challenges for African central banks - views from South Africa</b> <i>Barend De Beer</i> <b>Statistical challenges for African central banks: Dealing with multiple transitions and challenging environments</b> <i>Mohamed Taamouti</i> <b>The relevance of developing a central balance sheet data office for African central bank</b> <i>Olga Monteiro</i> Discussant(s): <i>João Cadete De Matos</i></p>
<p><b>IPS033</b> Room : C.-1.01</p>	<p><b>Communication of statistics in the post-truth society</b> Organiser(s): <i>Emanuele Baldacci</i> Chair(s): <i>Mariana Kotzeva</i> <b>Communication of statistics in the post-truth society</b> <i>Elaine O'Mahoney</i> <b>Role of statistical organizations and official statisticians in a time of "fake news" and biased information consumption</b> <i>Haisahan Fu</i> <b>The role of statistical offices in a "post-truth" society</b> <i>Enrico Giovannini</i> Discussant(s): <i>Emanuele Baldacci</i></p>
<p><b>IPS042</b> Room : A.-1.08</p>	<p><b>The agricultural censuses in the 21st Century: Challenges and new opportunities</b> Organiser(s): <i>Jairo Castano, Naman Keita</i> Chair(s): <i>Neli Georgieva-Mihaylova</i> <b>Agricultural census in Morocco 2016, challenges and lessons from experience</b> <i>Redouane Arrach</i> <b>Overview of the new international guidelines on the World Programme for Census of Agriculture 2020</b> <i>Naman Keita</i> <b>The agriculture censuses in the 21st century and link with population census with use of new technology: the case of Ethiopia</b> <i>Aberash Tariku Abaye</i> Discussant(s): <i>Flavio Bolliger</i></p>

<p><b>IPS068</b> Room : A.-1.02</p>	<p><b>New challenges to disseminate statistical literacy and problem-solving skills among people by Statistics Bureaus of Governments in "Open Data and Big Data" era</b> Organiser(s): <i>Hiroe Tsubaki, Michiko Watanabe</i> Chair(s): <i>Hiroe Tsubaki</i> <b>Building a data archive to open the Chinese survey data to the public</b> <i>Wei Yuan</i> <b>Challenges in improving the quality and amount of statistical utilization -new uses of official statistics in Japan-</b> <i>Kiyomi Shirakawa</i> <b>Mobile e-book for training official statistician</b> <i>Taerim Lee</i> <b>New challenges to promote use of statistics in Japan. -toward the creation of higher value by utilizing official statistics-</b> <i>Kenichiro Kakihara</i> Discussant(s): <i>Andrej Blejec, Jung Jin Lee</i></p>
<p><b>IPS069</b> Room : A.1.18</p>	<p><b>The Symbolic Approach in the Data Science Era</b> Organiser(s): <i>Paula Brito</i> Chair(s): <i>Chun-Houh Chen</i> <b>A Co-clustering method for a symbolic data representation of high dimensional temporal sequences</b> <i>Rosanna Verde</i> <b>Clustering of interval time series</b> <i>Ann Maharaj</i> <b>Symbolic approach for Big Data, mini data, and neo Big Data</b> <i>Masahiro Mizuta</i> <b>Symbolic statistical methods: the suitable ones in the new data era</b> <i>Paula Brito</i> Discussant(s): <i>Javier Arroyo</i></p>
<p><b>IPS080</b> Room : B.1.03</p>	<p><b>Sub-national Purchasing Power Parities (PPPs): Different Methods of Estimation and Application to China, India, Indonesia and Vietnam</b> Organiser(s): <i>Luigi Biggeri</i> Chair(s): <i>Luigi Biggeri</i> <b>Improvement of the sub-national PPP compilation method and its application in China</b> <i>Jun Wang</i> <b>Regional and urban-rural China's households' well-being</b> <i>Guido Ferrari</i> <b>Sensitivity of global and regional poverty rates to alternative purchasing power parities: results from ICP, 2011</b> <i>Amita Majumder</i> <b>Subnational purchasing power parities in Asia: prospects and feasibilities</b> <i>Yuri Dikhanov</i> Discussant(s): <i>Michel Mouyelo-Katoula</i></p>

<p><b>STS029</b>  <b>Room : A. -</b>  <b>1.05</b></p>	<p><b>Advances on Non-parametric Statistics</b>  Organiser(s): <i>Noureddine Rhomari, Sophie Dabo</i>  Chair(s): <i>Jelloul Allal</i>  <b>Density estimation over spatio-temporal data streams</b>  <i>Sophie Dabo</i>  <b>On the r-estimation of the slope parameters of simple linear regression models with dependent errors</b>  <i>Sana Louhichi</i>  <b>On local linear regression for strongly mixing random fields</b>  <i>Mohamed El Machkouri</i>  <b>Sharp exponential bounds for conditional Poisson sampling designs towards applications to big-data.</b>  <i>Patrice Bertail</i>  <b>TBD</b>  <i>Qiang Zhang</i>  <b>Wavelet relative risk function estimation for dependent observations: real and spatial data cases</b>  <i>Noureddine Rhomari</i></p>
<p><b>STS031</b>  <b>Room : A. -</b>  <b>1.06</b></p>	<p><b>Evolution of Random Systems. Statistical Models in Simulation</b>  Organiser(s): <i>Elena Yarovaya, Nikolaos Limnios</i>  Chair(s): <i>Irina Eliseeva</i>  <b>A multitype two-sex branching process for X-linked recessive disorders</b>  <i>Miguel Gonzalez</i>  <b>Discrete-time Markov random evolution system estimation</b>  <i>Nikolaos Limnios</i>  <b>Disparity estimation for controlled branching processes</b>  <i>Ines Del Puerto</i>  <b>Symmetric branching random walks with 'receding' branching sources</b>  <i>Elena Yarovaya</i>  Discussant(s): <i>Nikolaos Limnios</i></p>

<p><b>STS040</b>  <b>Room : A. -</b>  <b>1.09</b></p>	<p><b>Spatio-Temporal Modeling for Environmental and Ecological Applications</b>  Organiser(s): <i>Ali Arab</i>  Chair(s): <i>Jonathan Stroud</i>  <b>Adaptive ensemble Kalman filters for online Bayesian state and parameter estimation</b>  <i>Jonathan Stroud</i>  <b>Dynamic spatio-temporal models for spatial data</b>  <i>Trevor Hefley</i>  <b>Sequential sampling regime for environmental monitoring</b>  <i>Edward Boone</i>  <b>Spatio-temporal comparison of avian migration phenology using citizen science data</b>  <i>Ali Arab</i>  <b>Spatio-temporal pareto modelling of heavy-tail data</b>  <i>Gabriel Huerta</i>  Discussant(s): <i>Ali Arab</i></p>
<p><b>STS056</b>  <b>Room : B.</b>  <b>1.04</b></p>	<p><b>Statistical modelling of HIV, TB, vector borne and other infectious and non-infectious diseases in Africa and the Middle East</b>  Organiser(s): <i>Oyelola Adegboye</i>  Chair(s): <i>Oyelola Adegboye</i>  <b>Bayesian mixed effects modeling of HIV and TB co-infection using informative priors</b>  <i>Siaka Lougue</i>  <b>Composite likelihood approach to spatial-clustered malaria data analysis</b>  <i>Peter Song</i>  <b>Correlates of HIV / AIDS and life expectancy among older population in South Africa</b>  <i>Sathiya Susuman</i>  <b>Investigating the spatial patterns of cough, fever and diarrhea among young children in West African countries</b>  <i>Gayawan Ezra</i>  <b>Network analysis of transmission of middle east respiratory syndrome coronavirus contact structure and comorbidity status</b>  <i>Abdulmajeed Adegboye</i></p>



<p><b>STS060</b> Room : B. 1.05</p>	<p><b>Recent econometric/statistical approaches in Environmental modeling</b> Organiser(s): <i>Ahmed El Ghini, Raja Chakir, Sophie Dabo-Niang</i> Chair(s): <i>Ahmed El Ghini</i> <b>Climate induced land use change in France: impacts of agricultural adaptation and climate change mitigation</b> <i>Raja Chakir</i> <b>Flexible dependence modeling using convex combinations of different types of weight structures</b> <i>Nicolas Debarsy</i> <b>Non-parametric spatial prediction using k-nearest neighbor method</b> <i>Sophie Dabo-Niang</i> <b>Quantile regression for heavy tailed distributions non-crossing and c-vine copula for spatial modelling</b> <i>Salah-Eddine El Adlounie</i> Discussant(s): <i>Ahmed El Ghini, Anne-Françoise Yao</i></p>
<p><b>STS085</b> Room : A. - 1.07</p>	<p><b>Detection and Handling of Outliers in Big Data</b> Organiser(s): <i>Rahmatullah Imon</i> Chair(s): <i>Abdelhameed El-Shaarawi</i> <b>Big Data: Many Challenges and Some Solutions</b> <i>Ali Hadi</i> <b>Identification of Outliers in Spatial Data</b> <i>Rahmatullah Imon</i> <b>Robust Outlier Detection in Partial Least Squares Regression</b> <i>Aylin Alin</i> Discussant(s): <i>Habshah Midi</i></p>
<p><b>OR-A01</b> Room : A. - 1.11</p>	<p><b>Applications 01</b> <b>An easy method for micro-simulations from grouped data to recover income distributions</b> <i>Stefan Sperlich</i> <b>An Inverse Problem Arising from Financial Markets</b> <i>Yasushi Ota</i> <b>Factors of access to employment in Morocco</b> <i>Fatima Zahra Aissaoui</i> <b>Financial sector development and threshold effect of inflation in ecowas and sadc: a panel smooth transition regression approach</b> <i>Bashiru Saeed</i> <b>Modelling asymmetry in house price cycle in metropolitan area: a logistic smooth transition autoregressive approach</b> <i>Huthaifa Alqaralleh</i> <b>Spatio-Temporal Analysis of Regional Economic Differences Based on ESDA-A case study of county economy in Qinghai Province,China</b> <i>Sun Lijian</i> <b>Steering the parametric reform of the pension plans: the case of Moroccan pension fund</b> <i>Nisrine Ghefou</i></p>

<p><b>OR-C01</b> Room : A.-1.14</p>	<p><b>Statistical Computing 01</b>  <b>A computer program for Bayesian D-optimal binary repeated measurements designs</b>  <i>Haftom Abebe</i>  <b>A new agglomerative hierarchical clustering algorithm based on optimised average silhouette width linkage criteria (AHCA - OASW)</b>  <i>Fatima Batool</i>  <b>Big data analysis using shrinkage strategies</b>  <i>Mohammad Arashi</i>  <b>Cooperative Learning Used in a Multivariate Data Analysis Course</b>  <i>Christina Andersson</i>  <b>Extremal index estimation: a review of computational intensive procedures</b>  <i>Manuela Neves</i>  <b>Face recognition across age using the random effects model</b>  <i>Tamanna Howlader</i>  <b>Parallel Statistical Computing with R:An Illustration on Two Architectures</b>  <i>George Ostrouchov</i>  <b>Robust bootstrap densities for dynamic conditional correlations.</b>  <i>Carlos César Trucíos Maza</i></p>
<p><b>OR-E01</b> Room : C. 0.05</p>	<p><b>Business &amp; Industry 01</b>  <b>Risk Analysis in Capital Investment Appraisal with Correlated Cash Flows: Simple Analytical Methods</b>  <i>Peter Pflaumer</i>  <b>Application of Structural Equation Model with a Mediation Variable on Service Quality and Customer Loyalty of Commercial Banks in Ghana.</b>  <i>Abdul-Aziz Abdul-Rahaman</i>  <b>Corporate Demand for General Takaful in Malaysia</b>  <i>Izwayu Abdul Aziz</i>  <b>Measuring Financial Market Spillovers Based on CAViaR Method: Asymmetric Tail Dependence</b>  <i>Petra Tomanova</i>  <b>Nonparametric Multivariate Approach in Mean-Semivariance Portfolio Selection</b>  <i>Hanene Ben Salah</i>  <b>Reject inference in credit scoring: Classical Vs machine learning approach</b>  <i>Mehdi Bazzi</i>  <b>Using Statistics Finland?s enterprise data for calculating the connection between new orders, production, turnover and inventories</b>  <i>Kari Rautio</i></p>

<b>OR-B13</b> Room : A.-1.13	<b>Methods and Theory 13</b> <b>A bayesian analysis of structural change in the parameters of ar(1) model</b> <i>Abdeldjalil Slama</i> <b>Bayesian Fertility Forecasting for the United Kingdom</b> <i>Jason Hilton</i> <b>Bayesian robustness analysis of autoregressive model with exponential innovations</b> <i>Lydia Larbi</i> <b>Clustering of curves on a spatial domain using a Bayesian partitioning model</b> <i>Chae Young Lim</i> <b>Full Bayesian inference for Asymmetric GARCH models with Student-t Innovations</b> <i>Cristian Cruz Torres</i> <b>Statistical Analysis of Chinese R&amp;D Expenditure Statistical Mechanism and Feature Analysis Based on Size, Intensity and Structure</b> <i>Yunjie Sun</i> <b>Time Varying Rankings with the Bayesian Mallows Model</b> <i>Derbachew Teni</i>
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<p><b>IPS010</b> Room : A.1.16</p>	<p><b>High Frequency Financial Time Series, Pattern Recognition, and Volatility</b>  Organiser(s): <i>Bovas Abraham</i>  Chair(s): <i>Bovas Abraham</i>  <b>Forecasting high-frequency wind speed data with Markov switching models</b>  <i>Jose Sanchez-Espigares</i>  <b>Modeling durations in high frequency financial data</b>  <i>Nalini Ravishanker</i>  <b>Sparse principal component analysis of financial time series</b>  <i>Giovanni Merola</i></p>
<p><b>IPS012</b> Room : A.0.01</p>	<p><b>Recent advances of joint models for Big Data</b>  Organiser(s): <i>Hongbin Zhang, Lang Wu</i>  Chair(s): <i>Thaddeus Tarpey</i>  <b>Joint models for HIV vaccine data</b>  <i>Lang Wu</i>  <b>Joint tests for equality of mean and variance with application in high-throughput DNA methylation data analysis</b>  <i>Weiliang Qiu</i>  <b>Joint-modelling of discrete, continuous and semi-continuous longitudinal Big Data with applications</b>  <i>Renjun Ma</i></p>
<p><b>IPS023</b> Room : C.-1.01</p>	<p><b>Sentiment surveys for economic policy analysis: evolving uses and methods</b>  Organiser(s): <i>Bruno Tissot</i>  Chair(s): <i>Junichi Suzuki</i>  <b>Accuracy of expectations in business surveys</b>  <i>Martin Galstyan</i>  <b>Drivers of measured, perceived and expected inflation</b>  <i>Jens Mehrhoff</i>  <b>European union consumers quantitative inflation perceptions and expectations - An evaluation</b>  <i>Heinz Dieden</i>  <b>Sentiment surveys in Portugal: description and empirical analyses</b>  <i>Ligia Maria Nunes</i>  Discussant(s): <i>Aloisio Campelo</i></p>

<p><b>IPS032</b> Room : B.0.01</p>	<p><b>Space-Time Statistical Models for High-Dimensional Computer Experiments</b> Organiser(s): <i>Stefano Castruccio</i> Chair(s): <i>Marc Genton</i> <b>Computer model calibration with large nonstationary spatial outputs</b> <i>Serge Guillas</i> <b>Computer models, spatial statistics, and the west antarctic ice sheet</b> <i>Murali Haran</i> <b>Maximum likelihood estimation of weights in multiple kernel gaussian process models</b> <i>David Ginsbourger</i> Discussant(s): <i>Stefano Castruccio</i></p>
<p><b>IPS034</b> Room : A.-1.08</p>	<p><b>Uni-Multivariate Count Dispersion and Applications</b> Organiser(s): <i>Celestin Kokonendji</i> Chair(s): <i>Celestin Kokonendji</i> <b>A longitudinal COM-Poisson regression model with random effects</b> <i>Freedom Gumedze</i> <b>Bivariate Conway-Maxwell-Poisson distribution: formulation, properties, and inference</b> <i>Kimberly Sellers</i> <b>Over- and under-dispersion in multivariate count distributions</b> <i>Pedro Puig</i> Discussant(s): <i>Clarice Demetrio</i></p>
<p><b>IPS037</b> Room : A.-1.02</p>	<p><b>Optimization and Statistics</b> Organiser(s): <i>Sara Van De Geer</i> Chair(s): <i>Sara Van De Geer</i> <b>Convex optimization for large-scale statistical learning</b> <i>Francis Bach</i> <b>Detecting sparse structures in data in sublinear time: a group testing approach</b> <i>Boaz Nadler</i> <b>Estimating high-dimensional autoregressive point processes</b> <i>Rebecca Willett</i></p>
<p><b>IPS043</b> Room : A.1.18</p>	<p><b>The Future of the Social Sciences and Statistics</b> Organiser(s): <i>Gentry White</i> <b>A collaborative approach to understanding the drivers of social disadvantage in Australia: Utilising observational data to address a big social problem</b> <i>Michele Haynes</i> <b>Beyond modelling for inference</b> <i>Gentry White</i> <b>Disaggregated point process models for social systems</b> <i>Michael Porter</i> Discussant(s): <i>Kerrie Mengersen</i></p>

<p><b>IPS049</b> Room : C.-1.02</p>	<p><b>Old and new frontiers in sampling</b> Organiser(s): <i>Li-Chun Zhang</i> Chair(s): <i>Danny Pfeffermann</i> <b>A better use of multi-source data in the production of official statistics: an adaptive network sampling approach</b> <i>Melike Oguz-Alper</i> <b>A central limit theorem for pivotal sampling with application to spatial sampling</b> <i>Guillaume Chauvet</i> <b>Estimation strategies combining different sources of data</b> <i>Piero Falorsi</i> <b>On balanced sampling design in the presence of nonresponse and outliers</b> <i>Paul Smith</i></p>
<p><b>IPS071</b> Room : B.0.02</p>	<p><b>Agri-environmental statistics</b> Organiser(s): <i>Elisabetta Carfagna</i> Chair(s): <i>Redouane Arrach</i> <b>Estimating the length of linear landscape elements from a sample of transects in the Eurostat LUCAS survey</b> <i>Javier Gallego</i> <b>Geospatial information and ground data for estimating agro-environmental parameters</b> <i>Elisabetta Carfagna</i> <b>Spatio-temporal sampling for the US national resources inventory survey: past, present, and future</b> <i>Zhengyuan Zhu</i> Discussant(s): <i>Cristiano Ferraz</i></p>
<p><b>STS001</b> Room : A. - 1.07</p>	<p><b>Addressing the challenges posed by external statistics</b> Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Hock Chai Toh</i> <b>Compiling external sector statistics in Brazil - challenges and demands</b> <i>Thiago Vieira</i> <b>Does pass-thru funds require their own functional category?</b> <i>Jacek Kocerka</i> <b>Measuring merchandise and international freight transportation costs in the balance of payments(BOP)</b> <i>Jens Walter</i> <b>Why do external statistics matter? a multidimensional approach in a context of macroeconomic imbalances</b> <i>Joao Cadete De Matos</i> Discussant(s): <i>Katherine Hennings</i></p>

<p><b>STS002</b> Room : A. - 1.05</p>	<p><b>Statistics &amp; Cosmetics</b> Organiser(s): <i>Hicham Nocairi</i> Chair(s): <i>Philippe Bastien</i> <b>Functional models applied to data from connected devices</b> <i>Cristian Preda</i> <b>RGCCA for the analysis of Microbiome data</b> <i>Arthur Tenenhaus</i> <b>The value of Bayesian statistics for the development and evaluation of new cosmetic products</b> <i>Bruno Boulanger</i> Discussant(s): <i>Gilbert Saporta</i></p>
<p><b>STS828</b> Room : B. 1.05</p>	<p><b>Multivariate Circular Distribution in Hypertorus with Applications to Protein Structure Prediction Problem.</b> Organiser(s): <i>Ashis SenGupta, Seng Huat Ong</i> <b>Bivariate Circular Distributions based on Sarmanov-Lee Family of Distributions</b> <i>Seng Huat Ong</i> <b>Multivariate Multiple Circular Regression</b> <i>sungsu kim</i> <b>TBD</b> <i>Ashis SenGupta</i></p>
<p><b>STS043</b> Room : A. - 1.06</p>	<p><b>Shared Tools for Computing with Data in Official Statistics</b> Organiser(s): <i>Mark Van Der Loo</i> Chair(s): <i>Mark Van Der Loo</i> <b>An open source suite to harness internet data for statistical production</b> <i>Giulio Barcaroli</i> <b>JDemetra+ java tool for seasonal adjustment</b> <i>Dario Buono</i> <b>Open source statistical software at the statistical office</b> <i>Mark Van Der Loo</i> <b>Visualisation and Imputation of Missing Values</b> <i>Alexander Kowarik</i></p>

<p><b>STS044</b>  <b>Room : A. 1.</b>  <b>19</b></p>	<p><b>Applications of scoring rules to inference, prediction and model selection</b>  Organiser(s): <i>Matthew Parry</i>  Chair(s): <i>Genevera Allen</i>  <b>Bayesian discrete model selection based on proper scoring rules</b>  <i>Philip Dawid</i>  <b>Bayesian Inference for directional data through ABC and homogeneous proper scoring rules</b>  <i>Monica Musio</i>  <b>Scoring rules for probabilistic binary classification</b>  <i>Matthew Parry</i>  <b>The magic of score matching estimators and approximations for distributions on manifolds and some cutting edge applications to molecular biology</b>  <i>Kanti Mardia</i></p>
<p><b>STS079</b>  <b>Room : A. -</b>  <b>1.09</b></p>	<p><b>The Analysis and comparisons of Poverty Levels and Indicators in 'real terms' by using the Purchasing Power Parities: methodological problems and applications</b>  Organiser(s): <i>Achille Lemmi, Luigi Biggeri</i>  <b>Monetary poverty indicators at local level: definitions, methods of estimations and comparisons in real terms</b>  <i>Monica Pratesi</i>  <b>Supplemental Poverty Measure: A Comparison of Geographic Adjustments with Regional Price Parities vs. Median Rents from the American Community Survey: An Update</b>  <i>Eric Figueroa</i>  <b>TBD</b>  <i>Espen Beer Prydz</i></p>
<p><b>STS096</b>  <b>Room : A.</b>  <b>1.17</b></p>	<p><b>Direction of Dependency and Causality</b>  Organiser(s): <i>Yadolah Dodge</i>  <b>Direction dependence analysis: a unified framework to evaluate the direction of dependence in linear models</b>  <i>Wolfgang Wiedermann</i>  <b>Direction of effects in binary variables</b>  <i>Alexander Von Eye</i>  <b>What is the null hypothesis when testing the direction of dependence in a linear model?</b>  <i>Valentin Rousson</i>  Discussant(s): <i>Farhad Mehran</i></p>



<p><b>OR-B01</b>  <b>Room : A. - 1.11</b></p>	<p><b>Methods and Theory 01</b>  <b>A multi-stage adaptive pooltesting model with test errors vis-a-vis the non-adaptive model without test errors</b>  <i>Annette Okoth</i>  <b>Minimum contrast estimators for long-range dependent random fields</b>  <i>Andriy Olenko</i>  <b>Modified Alternative to Ridge Estimator</b>  <i>Ashok Dorugade</i>  <b>Parametric Spectral Discrimination</b>  <i>Andrew Grant</i>  <b>Possible Approach to Modernise Statistical System</b>  <i>Arijana Amina Ramic</i>  <b>ROC curve comparison in the presence of covariates</b>  <i>Arís Fanjul-Hevia</i></p>
<p><b>OR-F01</b>  <b>Room : A.-1.14</b></p>	<p><b>Official Statistics 01</b>  <b>A new approach to estimate the structural equation models</b>  <i>Ahmed Ouazza</i>  <b>Measuring (Nonlinear) Granger Causality in Quantiles</b>  <i>Abderrahim Taamouti</i>  <b>Nonparametric estimation with dependent twice censorship</b>  <i>Abderrahim Kitouni</i>  <b>Official Statistics and Modern Technologies Revolution: (Palestine Case)</b>  <i>Haleema Said</i>  <b>Preliminary Test and Stein-Type Liu Estimators in Partially Linear Models: Sub-model Analysis</b>  <i>Mohammad Arashi</i>  <b>Robust estimation of the tail index of Pareto-type distributions under random truncation</b>  <i>Abida Zahnit</i></p>

<p><b>OR-H01</b>  <b>Room : C.</b>  <b>0.05</b></p>	<p><b>Environmetrics 01</b>  <b>A combined contamination severity index for traffic related atmospheric pollution based on chemical element concentration in tree barks</b>  <i>Julio Singer</i>  <b>Comparing Record Linkage Techniques for Integrating Data on Brazilian Agriculture</b>  <i>Andrea Diniz Da Silva</i>  <b>Econometric Approaches to Measuring Climate Change Effects on the Agriculture Production: Evidence from Morocco</b>  <i>Karim Belcaid</i>  <b>Impact of atmospheric circulation patterns on hospital admissions due to circulatory and respiratory diseases in Lisbon</b>  <i>Giovani Silva</i>  <b>Testing spatio-temporal separability by a first-order log-ratio based test. Application to the analysis of wildfire patterns</b>  <i>Isabel Fuentes-Santos</i>  <b>The causal relationship between renewable energy consumption and economic growth in Morocco</b>  <i>Mounir El Karimi</i></p>
<p><b>OR-B02</b>  <b>Room : A.-1.13</b></p>	<p><b>Methods and Theory 02</b>  <b>A brief survey of Visual Assessment of clustering Tendency</b>  <i>Augusto Fadel</i>  <b>A Joint Quantile and Expected Shortfall Regression Framework</b>  <i>Timo Dimitriadis</i>  <b>A note on agreement rate and class number</b>  <i>Sung-Ho Kim</i>  <b>Bayesian approach to errors-in-variables negative binomial regression model</b>  <i>Nur Aainaa Rozliman</i>  <b>Quantile function approximation using regularly varying functions</b>  <i>Thoams Fung</i>  <b>Quantile-based cumulative Kullback-Leibler Divergence</b>  <i>Sunoj Sreenarayanapurath Madhavan</i></p>

<p>PP-A05 Room : A. 0.21</p>	<p><b>Applications 05</b> <b>An application of Stable law regression models to animal movement GPS telemetry data</b> <i>Robert Mutwiri</i> <b>Assessing the Economic Performance of Egypt: Economic Performance Index</b> <i>Hagar Ali</i> <b>Capability of GIS Applications As A Supporting Approach in Development Process in Egypt</b> <i>Dalia Elabady</i> <b>Causal relationship between real import, real export and real gdp in the gambia: an econometrics investigation</b> <i>Mawdo Gibba</i> <b>Dual-use performance measures for customer service evaluation in bike-shared systems</b> <i>Luan Jaupi</i> <b>Estimation of Age of Chronic Disease Onset from Prevalence Data: The Case of Diabetes in Uganda</b> <i>Leonard Atuhaire</i> <b>Evaluation of agricultural public expenditure with the COFOG methodology : case of Togo from 2010 to 2014</b> <i>Lao Kenao</i> <b>Forecasting electricity demand in Egypt: A comparison study</b> <i>Eman Mohamed</i> <b>Individual and Contextual Effects of Womens Work on Child Health: Evidence from Kenya and Zambia using DHS and Census Data</b> <i>Miriam King</i> <b>Key Capability Determinants of Information Communications Technology Services Industries in Malaysia: A Factor Analysis Perspective</b> <i>Ramachandran Ramasamy</i> <b>Spatial Prediction of Fine Particulate Matter in Taiwan</b> <i>Hsin-Cheng Huang</i> <b>Support Vector Regression and Artificial Neural Network Approaches: Case of Economic Growth in East Africa Community</b> <i>Abraham Lagat</i> <b>The Effects of State Dependence in University Graduates Employment: Analysis Using Dynamic Model</b> <i>Fatima Berahou</i> <b>The importance of estimation of changes in soil nutrient stock in calculating gross nutrient balances (N&amp;P balances)</b> <i>Fethi Ozbek</i> <b>Twin Deficits : Empirical investigation for Togo</b> <i>Kokouvi Juste Joseph Djabakou</i> <b>Using Cluster Analysis to Group States of the Sudan According to their Development Potentials: The Middle and Western States of the Sudan in 2011</b> <i>Mozamel Somali</i></p>
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	<p><b>Validation of the Smooth Test of Goodness-of-fit for Proportional Hazards in Cancer Survival Studies</b> <i>Collins Odhiambo</i></p> <p><b>What drive Regional Economic Inequalities in Tunisia? Evidence from Unconditional Quantile Decomposition Analysis</b> <i>Hatem Jemmali</i></p>
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<p><b>IPS016</b> Room : A.-1.08</p>	<p><b>Recent Advances in Reliability, Repairable Systems, Event-Time Analysis, and Model Selection</b> Organiser(s): <i>Edsel Pena</i> Chair(s): <i>Edsel Pena</i> <b>Flexible modeling of competing risks and model selection</b> <i>Sanjib Basu</i> <b>Modeling of semi-competing risks by first passage models</b> <i>Bo Lindqvist</i> <b>Some insights into dependence among competing risks and identifiability</b> <i>Ananda Sen</i> <b>Superposed log-linear process to model repairable artillery systems</b> <i>Paul Kvam</i></p>
<p><b>IPS026</b> Room : C.-1.02</p>	<p><b>Role of statistics for evidence-based decision making</b> Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>João Cadete De Matos</i> <b>Identifying supply and demand factors in credit growth in Mexico: an application to the countercyclical capital buffer</b> <i>Calixto López</i> <b>The link between the financial operation register and the policy measures to face capital flows sudden stops</b> <i>Fernando Alberto Rocha</i> <b>The role of statistics in monetary policy decision making in Morocco: The case of real estate price index</b> <i>Anas Maaroufi</i> <b>Using micro data to support evidence-based policy</b> <i>Bruno Tissot</i></p>
<p><b>IPS129</b> Room : B.1.03</p>	<p><b>Stochastic methods in finance and economics</b> Organiser(s): <i>Mark Podolskij</i> Chair(s): <i>Victor Panaretos</i> <b>Hedging under rough volatility</b> <i>Mathieu Rosenbaum</i> <b>On the minimal number of driving levy motions in a multivariate price model</b> <i>Mark Podolskij</i> <b>Polynomial jump-diffusion models</b> <i>Damir Filipovic</i></p>

<p><b>IPS030</b> Room : A.-1.02</p>	<p><b>Ethics and Big Data</b> Organiser(s): <i>Stephen Penneck</i> Chair(s): <i>Stephen Penneck</i> <b>Big Data and ethics - an official statistician's perspective</b> <i>Siu-Ming Tam</i> <b>Big Data, selection bias, and ways to correct for it</b> <i>Piet Daas</i> <b>The American statistical associations revised ethical guidelines: deliberations and conclusions</b> <i>Howard Hogan</i> <b>What is fair data processing ?</b> <i>Benjamin Nguyen</i></p>
<p><b>IPS044</b> Room : B.0.02</p>	<p><b>New developments in sound and cost-effective methods in Agricultural Statistics</b> Organiser(s): <i>Flavio Bolliger, Neli Georgieva-Mihaylova</i> Chair(s): <i>Hubert Hamer</i> <b>AGRicultural Integrated Survey (AGRIS) Rationale and methodology: outline</b> <i>Neli Georgieva-Mihaylova</i> <b>Estimating agriculture cost of production</b> <i>Dramane Bako</i> <b>Measurement of proxy variables to measure livestock productivity in developing countries: experience in three countries</b> <i>Alister Baker</i> <b>Measuring area, yield and production of vegetable crops</b> <i>Naman Keita</i> Discussant(s): <i>Seghir Bouzaffour</i></p>
<p><b>IPS047</b> Room : A.1.16</p>	<p><b>International Comparison Program: Challenges and Opportunities</b> Organiser(s): <i>D.S. Prasada Rao</i> Chair(s): <i>Haishan Fu</i> <b>Annual price and real expenditure comparisons within the international comparison program: feasibility and empirical illustration</b> <i>D.S. Prasada Rao</i> <b>International comparison program: methodological challenges and research agenda</b> <i>Yuri Dikhanov</i> <b>Testing the use of scanner data for computing sub-national purchasing power parities in Italy</b> <i>Tiziana Laureti</i> Discussant(s): <i>Luigi Biggeri</i></p>

<p><b>IPS048</b> Room : A.0.01</p>	<p><b>Opportunities and Challenges for Teaching Introductory Statistics</b> Organiser(s): <i>Delia North</i> Chair(s): <i>Delia North</i> <b>Opportunities and challenges for teaching introductory statistics - the Ethiopia experience</b> <i>Essey Kebede</i> <b>Pedagogic strategies supporting statistical literacy - sexier with less nudity?</b> <i>Martin Gellerstedt</i> <b>Teaching introductory statistics in the modern era</b> <i>Temesgen Zewotir</i></p>
<p><b>IPS050</b> Room : B.0.01</p>	<p><b>Model-based indicators summarising multi-dimensional phenomena: statistical principles and methods to convey consistent policy messages</b> Organiser(s): <i>Di Ciaccio Agostino, Maurizio Vichi</i> Chair(s): <i>Paula Brito</i> <b>Clusterwise methods, past and present</b> <i>Gilbert Saporta</i> <b>Model-based composite indicator for summarising multi-dimensional phenomena</b> <i>Maurizio Vichi</i> Discussant(s): <i>Emanuele Baldacci</i></p>
<p><b>IPS055</b> Room : A.1.18</p>	<p><b>Statistical and stochastic modelling of vector-borne infectious diseases</b> Organiser(s): <i>Cigdem Ak, Elvan Ceyhan</i> Chair(s): <i>Lilia Leticia Ramirez Ramirez</i> <b>An environmentally-driven stochastic population dynamics model of sand flies</b> <i>Kamil Erguler</i> <b>Prediction of dengue cases using SARIMA models</b> <i>Eniuce Menezes De Souza</i> <b>Stochastic epidemic model for the transmission dynamics of a Tick-borne disease</b> <i>Cigdem Ak</i> Discussant(s): <i>Alexander Krämer</i></p>
<p><b>IPS065</b> Room : C.-1.01</p>	<p><b>Statistics for High Dimensional Data : Theory and Methods</b> Organiser(s): <i>Probal Chaudhuri</i> Chair(s): <i>Amita Majumder</i> <b>Efficiency in the high-dimensional one-sample location problem</b> <i>Davy Paindaveine</i> <b>Feature sensitive curve registration by maximizing kernel based matching score</b> <i>Debasis Sengupta</i> <b>On High Dimensionality in Multivariate Regression Problems</b> <i>Alan Izenman</i> Discussant(s): <i>Sophie Dabo-Niang</i></p>

<p><b>STS003</b> Room : A. - 1.07</p>	<p><b>New prospects for the compilation of sectoral financial accounts</b> Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Gülbin Sahinbeyoglu</i> <b>Compiling financial accounts: a European perspective</b> <i>Caroline Willeke</i> <b>Financial accounts in Chile.</b> <i>Claudia Henríquez</i> <b>Statistical coverage of financial institutions in Luxembourg: achievements, challenges and ways ahead</b> <i>Paul Feuvrier</i> <b>Tailoring national financial accounts to the users needs using administrative and other large granular datasets</b> <i>Filipa Lima</i></p>
<p><b>STS005</b> Room : A. - 1.05</p>	<p><b>Statistical Disclosure Control - Methods and Applications</b> Organiser(s): <i>Carlos Coelho</i> Chair(s): <i>Jörg Drechsler</i> <b>Singly Imputed Partial Synthetic Data via Plug-in Sampling: Inference for Multivariate Linear Regression Model</b> <i>Ricardo Moura</i> <b>A Novel Unbiased Post-randomization Method for Guaranteed Control of Identification Risk in Microdata Release</b> <i>Tapan Nayak</i> <b>Perspectives on Utility Measures for Synthetic Data Sets</b> <i>Snoke Joshua</i></p>
<p><b>STS028</b> Room : A. 1.17</p>	<p><b>Advances in Bayesian Modeling for Novel Application Areas</b> Organiser(s): <i>Nalini Ravishanker</i> Chair(s): <i>Refik Soyer</i> <b>Bayesian mixture based models for medical overpayments</b> <i>Tahir Ekin</i> <b>Generalized latent VARMAX models and dynamic structural equations, with application to the study of the effect of pollution on health</b> <i>Dani Gamerman</i> <b>Hierarchical models for SKU pricing in consumer packaged goods industry</b> <i>Balaji Raman</i> <b>Multivariate models of realized beta and stochastic volatility</b> <i>Kathy Ensor</i></p>



<p><b>STS047</b>  <b>Room : A. 1.</b>  <b>19</b></p>	<p><b>Modernising Official Statistics with the Common Statistical Production Architecture</b>  Organiser(s): <i>Steven Vale</i>  Chair(s): <i>Steven Vale</i>  <b>CSPA for Digital Transformation</b>  <i>Thérèse Lalor</i>  <b>Modernising Official Statistics with CSPA and Data Architecture projects</b>  <i>Carlo Vaccari</i>  <b>Shared services: the European Statistical System implementation of the Common Statistical Production Architecture</b>  <i>Martina Hahn</i></p>
<p><b>STS050</b>  <b>Room : B.</b>  <b>1.04</b></p>	<p><b>The Challenges of Improving Statistical Literacy in Developing Countries</b>  Organiser(s): <i>Steve Macfeely</i>  Chair(s): <i>Steve Macfeely</i>  <b>CHALLENGES of IMPROVING STATISTICAL LITERACY in IRAN</b>  <i>Afshin Ashofteh</i>  <b>Data partners and data champions for advancing statistical literacy in developing countries</b>  <i>Lisa Bersales</i>  <b>Enhancing statistical literacy in Kenya lesson learned from organizing poster competition</b>  <i>Betty Gichohi</i>  <b>The Challenges of Improving Statistical Literacy and Skills in Developing Countries: Small Country Experiences in Sri Lanka</b>  <i>T. Dharmartane</i>  Discussant(s): <i>David Stern</i></p>
<p><b>STS052</b>  <b>Room : B.</b>  <b>1.05</b></p>	<p><b>Dependence modeling and applications</b>  Organiser(s): <i>Bouchra Nasri, Bruno Rémillard</i>  <b>Forecasting time series with multivariate copulas</b>  <i>Clarence Simard</i>  <b>On copula-based conditional quantile estimators</b>  <i>Bouchra Nasri</i>  <b>On resampling of tests based on empirical copula</b>  <i>Kilani Ghoudi</i></p>

<p><b>STS087</b> Room : A. - 1.09</p>	<p><b>Model specification tests</b> Organiser(s): <i>Kilani Ghoudi</i> <b>Goodness of-fit and randomness tests for stochastic volatility models</b> <i>Kilani Ghoudi</i> <b>On the conditional homoscedasticity test in time series: asymptotic power properties</b> <i>Mohamed Chaouch</i> <b>Specification test for the conditional error distribution in functional nonparametric regression</b> <i>Mohamed Cherfi</i> <b>Statistical inference in infinite-order cointegrated vector autoregressive processes under uncorrelated but dependent errors</b> <i>Chafik Bouhaddioui</i></p>
<p><b>STS095</b> Room : A. - 1.06</p>	<p><b>Bayesian small area estimation</b> Organiser(s): <i>Isabel Molina</i> Chair(s): <i>Tiziana Tuoto</i> <b>Global-Local Shrinkage Priors for Small Area Estimation</b> <i>Malay Ghosh</i> <b>New methods for small area estimation with linkage uncertainty</b> <i>Brunero Liseo</i> <b>TBD</b> <i>Juan Miguel Marín</i> Discussant(s): <i>Fabrizio Solari</i></p>
<p><b>OR-F02</b> Room : A.-1.14</p>	<p><b>Official Statistics 02</b> <b>A supermartingale argument for characterizing the Functional Hill process weak law for small parameters</b> <i>Adja Mbarka Fall</i> <b>On High Dimensionality in Multivariate Regression Problems</b> <i>Alan Izenman</i> <b>Ordinal Pattern Dependence in Contrast to Other Concepts of Dependence</b> <i>Alexander Schnurr</i> <b>Time Varying Persistence in GARCH-in-Mean Models with Time-Dependent Coefficients</b> <i>Alessandra Canepa</i> <b>Variable selection in multiple regression with random design</b> <i>Alban Mbina Mbina</i></p>

<p><b>OR-H02</b>  <b>Room : C.</b>  <b>0.05</b></p>	<p><b>Environmetrics 02</b>  <b>A priori constraints on the parameters of the generalized extreme value distribution for annual maxima of river discharge</b>  <i>Ronald Van Nooijen</i>  <b>Empirical viability of the environmental Kuznets curve: Discussions and criticisms</b>  <i>Salsabil Yacour</i>  <b>Modelling average maximum daily temperature using r largest order statistics: An application to South African data</b>  <i>Murendeni Nemukula</i>  <b>Probabilistic Forecasting of Daily Extreme Temperature using Bivariate Models of Daily Minimum and Maximum Time Series</b>  <i>Xiaochun Meng</i>  <b>Spatial and Temporal Variability of Monthly Rainfall in the Blue Nile Basin</b>  <i>Yasmine Abdelfattah</i>  <b>Wind Energy as Source for Rural Electricity to Enhance Agricultural Production at Djelfa State (Center of Algeria)</b>  <i>Brahim Taoussi</i></p>
<p><b>OR-B04</b>  <b>Room : A. -</b>  <b>1.11</b></p>	<p><b>Methods and Theory 04</b>  <b>Asymptotic confidence bands for copulas based on the transformation kernel estimator</b>  <i>Diam Ba</i>  <b>Effect of under-coverage of the classification variable on the accuracy for the domain estimates of the total</b>  <i>Danute Krapavickaite</i>  <b>On bias reducing technique in kernel density estimation for heavy-tailed distributions</b>  <i>Djabrane Yahia</i>  <b>Optimal adaptive sample allocation in stratified sampling under budget constraints</b>  <i>Elisabetta Carfagna</i>  <b>Power Calculations for Stepped Wedge Designs with Binary Outcomes</b>  <i>Donna Spiegelman</i>  <b>Visualized Statistical Contents, Customized Personal Price Index Calculation Service</b>  <i>Eunyoung Park</i></p>

<b>OR-B05</b> Room : A.-1.13	<b>Methods and Theory 05</b> <b>Accurate forecast of factors models based on the VAR representation of the common components</b> <i>Gilles Nisol</i> <b>Expected value and variance of a fuzzy variable based on a new fuzzy measure</b> <i>Fono Louis Aimé</i> <b>Modelling claims data using robust mixture of regressions</b> <i>Frans Kanfer</i> <b>On the Glivenko Cantelli theorem for the functional empirical process using associated sequences</b> <i>Harouna Sangaré</i> <b>R&amp;D and Productivity Change before and after the Crisis: Micro Evidence from Chinese Official Innovation Survey</b> <i>Feng Zhen</i> <b>The circular market flow as an approach to explain the value of official statistics to users</b> <i>Florabela Carausu</i>
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<p><b>IPS004</b> Room : A.0.01</p>	<p><b>Being a 'performing statistician'</b> Organiser(s): <i>Fabrizio Ruggeri</i> Chair(s): <i>Helen Macgillivray</i> <b>Being a 'performing statistician'</b> <i>David Spiegelhalter</i></p>
<p><b>IPS126</b> Room : A.-1.02</p>	<p><b>William Sealy Gosset Lecture</b> Organiser(s): <i>David Banks</i> Chair(s): <i>David Banks</i> <b>Gosset lecture: an overview of machine learning methods and some applications in business and finance</b> <i>Vijay Nair</i> Discussant(s): <i>David Banks</i></p>
<p><b>IPS128</b> Room : C.-1.02</p>	<p><b>Peter Hall Memorial Session</b> Organiser(s): <i>Victor Panaretos</i> Chair(s): <i>Victor Panaretos</i> <b>High dimension low sample size asymptotics</b> <i>Steve Marron</i> <b>Peter Hall at the University of Melbourne and his contributions to deconvolution.</b> <i>Aurore Delaigle</i></p>
<p><b>IPS148</b> Room : A.1.16</p>	<p><b>The transformation of IAOS 1985-2015: the past, the current and the future</b> Organiser(s): <i>Ola Awad</i> Chair(s): <i>Ola Awad</i> <b>IAOS: learning from the past</b> <i>Stephen Penneck</i> <b>The future of IAOS: Is there a lurking crisis?</b> <i>Mario Palma</i></p>
<p><b>IPS154</b> Room : A.1.18</p>	<p><b>IASE Presidential lecture</b> Organiser(s): <i>Andrej Blejcek</i> Chair(s): <i>Andrej Blejcek</i> <b>Statistical thinking in a data science course</b> <i>Deborah Nolan</i></p>

<p><b>PO-C02</b> <b>Room : A.</b> <b>0.20</b></p>	<p><b>Statistical Computing 02</b> <b>A clustering algorithm and testing for angular data</b> <i>Yoshitomo Akimoto</i> <b>A new step by step algorithm to build uniform mixtures design</b> <i>Charles Gomes</i> <b>Bankruptcy prediction using hybrid neural networks with "Colonies of ants and defect ceiling"</b> <i>Said Marso</i> <b>Classification of High Dimensional Data: A Distance Based Approach</b> <i>Olusola Makinde</i> <b>Comparing supervised machine learning algorithms using item response theory models</b> <i>Mariana Curi</i> <b>Mean-of-order-p reduced-bias value-at-risk estimation: a small-scale Monte-Carlo study</b> <i>Dinis Pestana</i> <b>Multiplex network clustering based collaborative filtering</b> <i>Issam Falih</i> <b>Non-linear mixed model implementation in InfoStat and interface to nlme library</b> <i>Fernando Casanoves</i> <b>Pros and cons of Using CSpro in Designing a Data Entry Applications for the Statistical Survey</b> <i>Waleed Mohamed</i> <b>Research on the Monitoring of Population Dynamics in the Big Data Era</b> <i>Yinsha Rao</i> <b>Statistical stories in the new information environment ?</b> <b>Towards mobile article and blog service</b> <i>Maija Metsä</i> <b>Testing equality of two mean vectors on subvectors with two-step monotone missing data</b> <i>Tamae Kawasaki</i> <b>Visualization and data analysis for the text data regarding radiation</b> <i>Takafumi Kubota</i></p>
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<p>PO-A08 Room : A. 0.20</p>	<p><b>Applications 08</b>  <b>A statistical application regarding a survey of the people under the age of 45 who have AB0 (ABRH<math>\pm</math>) blood group to see whether they have cognitive inefficiency</b>  <i>Adnan Mazmanoglu</i></p> <p><b>Assessing the Relationship between Socio-demographic Characteristics, the Need for Care and Wellbeing of Informal Caregiving in Ghana</b>  <i>Bashiru Saeed</i></p> <p><b>Can aggregation explain the high persistence of inflation in China? Empirical evidence from CPI disaggregate data</b>  <i>Guangming Lv</i></p> <p><b>Decent work measurement: The case of Azerbaijan</b>  <i>Nemat Khuduzade</i></p> <p><b>Design and Analysis of Biosimilarity Based on Interval Estimations</b>  <i>Chieh Chiang</i></p> <p><b>Estimating disease progression using Bayesian Semi Markov Approach</b>  <i>Tilahun Asena</i></p> <p><b>Evaluating the link between microbiome and cosmetic clinical signs With PLS Approaches</b>  <i>Hicham Noçairi</i></p> <p><b>Evaluating the link between microbiome and cosmetic clinical signs With PLS Approaches</b>  <i>Marie Thomas</i></p> <p><b>Firms size and Gender: Access to Credit as a Growth Constraint in Africa</b>  <i>Marc Akplogan</i></p> <p><b>Growth Curve Modeling : The economic impact of higher education</b>  <i>Adnane Belakhdar</i></p> <p><b>Meta-Analysis of loci for resistance to viral maize diseases</b>  <i>Monica Balzarini</i></p> <p><b>On detection of epileptic seizure with an approach based on power spectral density with an ar model</b>  <i>Mahamat Issaka</i></p> <p><b>On the determinants of underemployment in Morocco</b>  <i>Naima Labroude</i></p> <p><b>Spatial distribution of tuberculosis patients in douala, cameroon: evidence of heterogeneity</b>  <i>André Nana Yakam</i></p> <p><b>The co-existence of accumulation of functional deficits, depression symptom, and the effect on mortality: a longitudinal study of Taiwanese elderly</b>  <i>Hsing-Yi Chang</i></p> <p><b>The Impact of Institutional Quality on Foreign Direct Investment in Burkina Faso</b>  <i>Zakaya Ramde</i></p> <p><b>Use of smokeless tobacco and its associated risk factors</b></p>
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	<b>among low socio-economic populations</b> <i>Md Shahjahan</i>
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<p><b>IPS020</b> Room : B.0.02</p>	<p><b>Advances in Integration and Reconciliation of Large System of National Accounts Data: Theory and Practice</b> Organiser(s): <i>Baoline Chen, Nino Mushkudiani</i> Chair(s): <i>Marco Marini</i></p> <p><b>Reliability of Data in Simultaneous Reconciliation of Large System of Time Series Accounts with an Application to the U.S. Input-Output Accounts</b> <i>Baoline Chen</i></p> <p><b>Seasonal adjustment and the balancing problem - Statistics Canada's experience</b> <i>Susie Fortier</i></p> <p><b>Solving large data consistency problems at Statistics Netherlands using macro integration techniques</b> <i>Nino Mushkudiani</i></p> <p><b>Uncertainty and automatic balancing of the national accounts</b> <i>Yingfu Xie</i> Discussant(s): <i>Tammaso Di Fonzo</i></p>
<p><b>IPS021</b> Room : A.1.16</p>	<p><b>Enhancing statistical cooperation between national central banks and statistical offices</b> Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Chung Seak Roh</i></p> <p><b>Conditions for a successful statistical cooperation between national central banks and statistical offices</b> <i>Abdelhamid El Maazouzi</i></p> <p><b>Cooperation in Europe the macroeconomic imbalance procedure (MIP) scoreboard</b> <i>John Verrinder</i></p> <p><b>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</b> <i>Begona Gutierrez Del Olmo</i></p> <p><b>Strategic coordination of a national statistical system: the case of the Portuguese statistical council</b> <i>João Cadete De Matos</i></p> <p><b>Strengthening the national statistical system with the cooperation of the Central Bank: lessons from Mexico</b> <i>Julio Santaella</i></p>

<p><b>IPS035</b> Room : A.1.18</p>	<p><b>Statistics Education for Social Engagement</b> Organiser(s): <i>Jim Ridgway, Pedro Campos</i> Chair(s): <i>Jim Ridgway</i> <b>Design, realization and evaluation of a university course for preservice teachers on developing statistical reasoning and literacy with a focus on civic statistics</b> <i>Daniel Frischmeier</i> <b>Learning statistics about society: more than acquiring some technical skills</b> <i>Joachim Engel</i> <b>Pictures and numbers - responding to the challenge of finding authentic 'futureproof' data sets and visualisations</b> <i>Pedro Campos</i> <b>Understanding statistics about society: mapping the knowledge and skills needed to engage with civic statistics</b> <i>James Nicholson</i> Discussant(s): <i>Alexey Ponomarenko</i></p>
<p><b>IPS136</b> Room : A.0.01</p>	<p><b>Big Data and Big Opportunities: How the Minds of Statisticians Can Help</b> Organiser(s): <i>Jiming Jiang, Partha Lahiri</i> Chair(s): <i>Thuan Nguyen</i> <b>Can Big Data Really Replace Traditional Surveys for the Production of Official Statistics</b> <i>Danny Pfeffermann</i> <b>Prediction of traffic patterns and travel time using Big Data: a small area estimation approach</b> <i>Cinzia Cirillo</i> <b>Prova</b> <i>Jiming Jiang</i> <b>Small Area model for Italian regional monthly estimates of young unemployed using Google Trends Data</b> <i>Monica Pratesi</i> Discussant(s): <i>Partha Lahiri</i></p>

<p><b>IPS040</b> Room : B.0.01</p>	<p><b>Integrative analysis of complex data - from genomics to bioinformatics</b>  Organiser(s): <i>Shili Lin</i>  Chair(s): <i>Ying Sun</i>  <b>A signal estimation approach for meta-analysis of ranking data applied to drug gene signatures</b>  <i>Michael Schimek</i>  <b>Post-hoc marker-set analysis for risk variant prioritization: a false negative control procedure for rare variant analysis at single locus level</b>  <i>Jung-Ying Tzeng</i>  <b>Powerful tests for genomic imprinting effects on the X chromosome using nuclear families</b>  <i>Wing-Kam Fung</i>  <b>Statistical methods for inference of spatial gene regulation</b>  <i>Shili Lin</i>  Discussant(s): <i>Mariza De Andrade</i></p>
<p><b>IPS046</b> Room : A.-1.08</p>	<p><b>Challenges in the Measurement of Human Capital</b>  Organiser(s): <i>Andrew Sharpe, Barbara M. Fraumeni</i>  Chair(s): <i>Andrew Sharpe</i>  <b>Conclusions from the UNECE task force guide on measuring human capital</b>  <i>Ann Lisbet Brathaug</i>  <b>Human capital around the world</b>  <i>Barbara M. Fraumeni</i>  <b>Human capital in the inclusive wealth report 2017</b>  <i>Shunsuke Managi</i>  <b>Regional distribution and dynamics of human capital in China 1985-2014: education, urbanization, and aging of the population</b>  <i>Haizheng Li</i>  Discussant(s): <i>D.S. Prasada Rao</i></p>
<p><b>IPS146</b> Room : C.-1.02</p>	<p><b>Bridging BFF (Bayesian/frequentist/fiducial) inferences in the era of data science</b>  Organiser(s): <i>Jan Hannig</i>  Chair(s): <i>Edward Boone</i>  <b>Can fiducial inference bring new insights for model selection?</b>  <i>Jan Hannig</i>  <b>Combining diverse information sources with the II-CC-FF paradigm: Independent Inspection, Confidence Conversion, Focused Fusion</b>  <i>Céline Cunen</i>  <b>Lets Believe Belief Functions: A paradigm for multi-resolution probabilistic inference</b>  <i>Robin Gong</i>  Discussant(s): <i>Min-Ge Xie</i></p>

<p><b>IPS058</b>  <b>Room : A.-1.02</b></p>	<p><b>Modern Statistics Meets Modern Optimization</b>  Organiser(s): <i>Roy Welsch</i>  Chair(s): <i>Welsch Roy</i>  <b>Efficient inference of average treatment effects in high dimensions via approximate residual balancing</b>  <i>Stefan Wager</i>  <b>New results for sparsity-inducing methods for logistic regression</b>  <i>Robert Freund</i>  <b>Sparse multivariate statistics with discrete optimization</b>  <i>Rahul Mazumder</i>  Discussant(s): <i>Francis Bach</i></p>
<p><b>IPS087</b>  <b>Room : B.1.03</b></p>	<p><b>Collaborations with Business and Industry Through the LISA 2020 Program</b>  Organiser(s): <i>Eric Vance</i>  Chair(s): <i>James Rosenberger</i>  <b>Inter university industry partnership with a focus on banking and finance in Calcutta, India</b>  <i>Ganguli Bhaswati</i>  <b>Promoting and sustaining a virile statistical laboratory in Nigeria's premier university: lessons from UI-LISA experience</b>  <i>Olusanya Olubusoye</i>  <b>Sualisa partnerships with business, government agencies, and NGO's in Tanzania</b>  <i>Benedicto Kazuzuru</i>  Discussant(s): <i>Eric Vance</i></p>

<p><b>STS023</b> Room : A. - 1.05</p>	<p><b>Evaluation of Bayesian Geospatial Methods to Generate Sub-national prediction of global health issues in Sub-Saharan Africa based on complex survey data</b> Organiser(s): <i>Ngianga-Bakwin Kandala</i> Chair(s): <i>Ngianga-Bakwin Kandala</i> <b>Bayesian spatial-temporal modeling of HIV risk among adolescents in Africa</b> <i>Ding-Geng Chen</i> <b>Generating cardiovascular prevalence estimates for subnational level planning in South Africa. A comparative assessment and validation of disease mapping methods</b> <i>Samuel Manda</i> <b>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</b> <i>Jose Kandala</i> <b>Modelling spatial variations of HIV prevalence in Nigeria: implications for effective prevention strategies</b> <i>Samson Adebayo</i> <b>Prevalence of cardiovascular conditions: coronary heart disease and stroke in South Africa: systematic review and meta-analysis</b> <i>Nada Abdelatif</i> <b>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</b> <i>Njeri Wabiri</i> <b>Spatial distribution of malnutrition among children under five in Nigeria: A Bayesian quantile regression approach</b> <i>Ezra Gayawan</i></p>
<p><b>STS027</b> Room : A. - 1.06</p>	<p><b>Big Data Analytics: An Insight for Policy and Decision Making</b> Organiser(s): <i>Mazreha Ya'Akub</i> Chair(s): <i>Mohd Uzir Mahidin</i> <b>Big Data, Official Statistics and Some Experience of the Australian Bureau of Statistics</b> <i>Siu-Ming Tam</i> <b>Experiences with the use of online prices in Singapore's Consumer Price Indices (CPI)</b> <i>Chuanyang Foo</i> <b>TBD</b> <i>Mazreha Ya'Akub</i> <b>TBD</b> <i>Hazlina Hamid</i> <b>To Boldly Go Where Data Has Never Gone Before</b> <i>David R. Hardoon</i> Discussant(s): <i>Mohd Uzir Mahidin</i></p>

<p><b>STS037</b>  <b>Room : A. -</b>  <b>1.09</b></p>	<p><b>Determinants of International Migration in the Middle East and North Africa: Insights from the MED-HIMS Surveys</b>  Organiser(s): <i>Bouchra Bouziani</i>  Chair(s): <i>Samir Farid</i>  <b>Characteristics of labour migration from Jordan</b>  <i>Ghaida Khasawneh</i>  <b>Impact of migrant remittances and investment on development: the case of the tadla-azilal region</b>  <i>Mohamed Mghari</i>  <b>Migration Intentions of non-migrants in Egypt</b>  <i>Amal Nour</i>  <b>Sample design for surveys on international migration: MEDHIMS methods and applications in Egypt and Jordan</b>  <i>Richard Bilborrow</i>  <b>The MED-HIMS research programme: scope and methodology</b>  <i>Samir Farid</i>  Discussant(s): <i>Richard Bilborrow</i></p>
<p><b>STS041</b>  <b>Room : A.</b>  <b>1.17</b></p>	<p><b>Subnational Purchasing Power Parity in the 2017 ICP cycle for emerging economies</b>  Organiser(s): <i>Yafei Wang</i>  Chair(s): <i>Dong Qiu</i>  <b>A study on the domestic price differences of large countries in international comparison program: an evidence from China</b>  <i>Shujian Xiang</i>  <b>Estimating absolute poverty for China: what do the new data tell us?</b>  <i>Yan Wang</i>  <b>Estimating absolute poverty for China: what do the new data tell us?</b>  <i>Zhongshan Yang</i>  <b>How to modify the underestimation of purchasing power parity by statistical model and weighted adjustment: an evidence from China</b>  <i>Yingmei Xu</i>  <b>Methodological improvements of spatial price differences for large emerging economies</b>  <i>Yafei Wang</i>  <b>The comparison between international comparison program (ICP) and Eurostat-OECD PPP programme</b>  <i>Qiang Xu</i>  Discussant(s): <i>Prasada Rao</i></p>

<p><b>STS051</b>  <b>Room : A. 1.</b>  <b>19</b></p>	<p><b>Towards a Digital Communication Strategy for Statistics</b>  Organiser(s): <i>Matthias &amp; Trevor Rumpf &amp; Fletcher</i>  Chair(s): <i>Mariana Kotzeva</i>  <b>Modernising statistics: Moving towards a digital communication strategy Safeguarding trust</b>  <i>Per Nymand-Andersen</i>  <b>Reinforcing the cooperation within the European Statistical System: the way to face the digital revolution</b>  <i>Mariana Kotzeva</i>  <b>TBD</b>  <i>Lehohla Pali</i>  <b>TBD</b>  <i>Steven Vale</i>  <b>Towards a Digital Communication Strategy for Statistics</b>  <i>Peter Van De Ven</i></p>
<p><b>STS068</b>  <b>Room : B.</b>  <b>1.05</b></p>	<p><b>Challenges in Experimental Design and Statistical Quality Control</b>  Organiser(s): <i>Amílcar Oliveira, Teresa Oliveira</i>  Chair(s): <i>Amilcar Oliveira</i>  <b>Application of statistical process control on water supply networks</b>  <i>Elisa Henning</i>  <b>New challenges on BIBD and Related Designs: Exploring R and R-Studio</b>  <i>Teresa Oliveira</i>  <b>Recent developments in phase-ii monitoring of location and scale - an overview and some new results</b>  <i>Amitava Mukherjee</i>  <b>Revisiting control charts for attributes applied on e-learning classes monitoring</b>  <i>Amilcar Oliveira</i>  <b>TBD</b>  <i>Karl Moder</i>  Discussant(s): <i>Teresa Oliveira</i></p>

<p><b>STS090</b>  <b>Room : A. -</b>  <b>1.07</b></p>	<p><b>The use of leading indicators to anticipate economic activity</b>  Organiser(s): <i>Bruno Tissot</i>  Chair(s): <i>Katherine Hennings</i>  <b>Are surveys indicators useful to anticipate Lebanese economy?</b>  <i>Sana Souaid Jad</i>  <b>External statistics and national financial accounts as leading indicators for the assessment of economic vulnerabilities</b>  <i>António Jorge Silva</i>  <b>Google Data in Bridge Equation models for German GDP</b>  <i>Thomas Goetz</i>  <b>Nowcasting private consumption: traditional indicators, uncertainty measures, and the role of internet search query data</b>  <i>Javier Pérez</i>  Discussant(s): <i>Fernando Alberto Rocha</i></p>
<p><b>STS094</b>  <b>Room : B.</b>  <b>1.04</b></p>	<p><b>Measuring poverty, precarity and social exclusion in Africa in terms of the Sustainable Development Goals 2030 (SDGs)</b>  Organiser(s): <i>Khalid Soudi</i>  Chair(s): <i>Samira Mizbar</i>  <b>Human inclusion as capability expansion</b>  <i>Iris Macculi</i>  <b>Measurement and socio-demographic determinants of child multidimensional poverty in Senegal</b>  <i>Bouba Housseini</i>  <b>Multidimensional poverty reduction among countries in Sub-Saharan Africa</b>  <i>Sabina Alkire</i>  <b>Note on poverty and social and territorial inequalities in Morocco in the light of the results of ENCDM 2014</b>  <i>Mustapha Zirouali</i>  <b>Sustainable development goals: Morocco as an example for Africa</b>  <i>Anna Fruttero</i>  <b>Tools for geographic and demographic targeting of poverty:</b>  <i>Yassine Abahamid</i>  Discussant(s): <i>Belkacem Abdous</i></p>



<p><b>OR-G01</b>  <b>Room : C.</b>  <b>0.05</b></p>	<p><b>Survey Statistics 01</b>  <b>Adaptive Procedures for Optimum Observed Information</b>  <i>Adam Lane</i>  <b>Longitudinal Weights for a Partially Overlapping Sample: The Case of the Brazilian Labour Force Survey</b>  <i>Denise Silva</i>  <b>Producing a Public Use File from the 2015 National Survey on Drug Use and Health</b>  <i>Neeraja Sathe</i>  <b>Unified estimation of densities on bounded and unbounded domains</b>  <i>Carlos Martins-Filho</i>  <b>Weak Laws of Divergence Measures Estimators Using Wavelets Theory</b>  <i>Amadou Ba</i></p>
<p><b>OR-A02</b>  <b>Room : A. -</b>  <b>1.11</b></p>	<p><b>Applications 02</b>  <b>Analysis of multinomial counts with joint zero-inflation, with an application to health economics</b>  <i>Alpha Oumar Diallo</i>  <b>Determining sample sizes for assessing inter-observer reliability for direct observational studies in health care</b>  <i>Ling Li</i>  <b>Interaction based random elastic net for cancer driver gene selection</b>  <i>Heewon Park</i>  <b>Outlier detection in survival analysis: an application to ovarian cancer data</b>  <i>Eunice Trigueirão</i>  <b>Right endpoint: testing and estimation with application to human lifespan</b>  <i>Isabel Fraga Alves</i>  <b>Two, three, or many? Estimation of the shared descent of genome.</b>  <i>Elizabeth Thompson</i>  <b>Use of generalized additive models and autoregressive models to predict zoonotic cutaneous leishmaniasis in central Tunisia</b>  <i>Khouloud Talmoudi</i></p>

<p><b>OR-F03</b> Room : A.-1.14</p>	<p><b>Official Statistics 03</b>  <b>Multidimensional Poverty in Moroccan regions: Why does Education Matter?</b>  <i>Sanaa Cheddadi</i>  <b>Poverty in Jordan</b>  <i>Maha Dawas</i>  <b>Social Mobility and Mortality in southern Sweden (1813-1910): a Cox model application</b>  <i>Paolo Emilio Cardone</i>  <b>Studies on statistical housing conditions for disabilities persons</b>  <i>Paulo De Oliveira</i>  <b>Supporting Abu Dhabi's Executive Decision Makers ?</b>  <b>SCAD's Executive Dashboard</b>  <i>Muna Al Suwaidi</i>  <b>The effect of the working correlation on fitting models to longitudinal data</b>  <i>Alan Welsh</i></p>
<p><b>OR-B14</b> Room : A.-1.13</p>	<p><b>Methods and Theory 14</b>  <b>Finite-Sample Comparison of Integrated Variance Estimators</b>  <i>Vladimír Holý</i>  <b>Interpoint Distances of Negative Multinomial Observations</b>  <i>Yu Song</i>  <b>On Predictive Density Estimation under S-Hellinger Distance and Alpha-Divergence Loss</b>  <i>Younes Ommame</i>  <b>Product of independent generalized gamma distribution with application</b>  <i>Vusi Bilankulu</i>  <b>Sensitivity Analysis of Non-Gaussianity by Projection Pursuit</b>  <i>Yufen Huang</i>  <b>The Development of a Statistical Framework for Analyzing Multiple Time Series</b>  <i>Xin Ma</i>  <b>Vine based modeling of multivariate volatility time-series</b>  <i>Yarema Okhrin</i></p>

<p><b>IPS009</b> Room : B.0.01</p>	<p><b>Looking for the Holy Grail: measuring income, consumption, and wealth simultaneously at the household level</b> Organiser(s): <i>Sebastian Perez-Duarte</i> Chair(s): <i>Aurel Schubert</i> <b>Always look at the bright side of statistics: challenges in measuring the joint distribution of income, consumption, wealth</b> <i>Pierre Lamarche</i> <b>Measuring income, spending and assets and debts in households surveys</b> <i>Thomas F. Crossley</i> <b>Survey-based estimates of saving and wealth accumulation</b> <i>John Sabelhaus</i> <b>The estimation of total consumption in the Eurosystem household finance and consumption survey</b> <i>Sebastian Perez-Duarte</i></p>
<p><b>IPS025</b> Room : A.-1.02</p>	<p><b>Dimensions of Data Sharing</b> Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Charles Thomas</i> <b>ECB insurance statistics and solvency II : collect data only once</b> <i>Sebastian Huegelschaeffer</i> <b>Effective data sharing as an indispensable element of mature data management</b> <i>Ekaterina Prokunina</i> <b>Sharing information with financial authorities. The case of Banco de Mexico</b> <i>Alejandro Mario Alejandro Gaytan</i> <b>TBD</b> <i>Jimmy Mchugh</i> <b>The international network of central banks for exchanging experiences on the sharing of granular data</b> <i>Paulo Guimaraes</i></p>
<p><b>IPS028</b> Room : A.1.16</p>	<p><b>Robust Statistical Methods for High-dimensional Data with Engineering and Environmental Applications</b> Organiser(s): <i>Ying Sun</i> Chair(s): <i>Carolina Euan</i> <b>Analyzing high-dimensional functional data</b> <i>Juan Romo</i> <b>Monitoring and modelling complex data indexed in space and time</b> <i>Alessandro Fasso</i> <b>Total variation data depth: properties and applications</b> <i>Ying Sun</i></p>

<p><b>IPS029</b> Room : C.-1.02</p>	<p><b>New methodologies for functional data analysis</b> Organiser(s): <i>Ferraty Frederic</i> Chair(s): <i>Ferraty Frederic</i> <b>Functional data analysis by matrix completion</b> <i>Panaretos Victor</i> <b>Interaction models for multivariate functional and longitudinal data</b> <i>Hans-Georg Mueller</i> <b>Some new issues on functional general linear model</b> <i>Sarda Pascal</i> Discussant(s): <i>Jeff Goldsmith</i></p>
<p><b>IPS066</b> Room : A.-1.08</p>	<p><b>The renewed/modernised institutional framework of the National Statistical Systems in the enlargement and ENP countries</b> Organiser(s): <i>Claudia Junker</i> Chair(s): <i>Pieter Everaers</i> <b>The impact of the code of practice on quality of statistics: experience of Azerbaijan</b> <i>Yusif Yusifov</i> <b>The renewed/modernised institutional framework of the national statistical systems in the enlargement and European neighbourhood policy countries</b> <i>Claudia Junker</i> <b>Transformation of the institutional framework of statistical system of Montenegro</b> <i>Gordana Radojevic</i></p>
<p><b>IPS074</b> Room : B.0.02</p>	<p><b>Practical and Innovative Approaches Using Master Sampling Frames for Agricultural Surveys</b> Organiser(s): <i>Cristiano Ferraz</i> Chair(s): <i>Andrea Diniz Da Silva</i> <b>Multiple frames design efficiency in practice</b> <i>Cristiano Ferraz</i> <b>Testing master sampling frames in Brazil, Nepal and Rwanda</b> <i>Jacques Delincé</i> Discussant(s): <i>Javier Gallego</i></p>
<p><b>IPS075</b> Room : B.1.03</p>	<p><b>Using Chain Event Graphs to model and understand discrete processes</b> Organiser(s): <i>Jane Hutton</i> Chair(s): <i>Freedom Gumedze</i> <b>Causal discovery and inference with chain event graphs</b> <i>Peter Thwaites</i> <b>Chain event graphs: a review of semantics, inference, model selection and interpretation</b> <i>Jane Hutton</i> <b>The dynamic chain event graph</b> <i>Rodrigo Collazo</i> Discussant(s): <i>Eva Riccomagno</i></p>

<p><b>IPS076</b> Room : A.1.18</p>	<p><b>Policy use of macroeconomic indicators</b> Organiser(s): <i>John Verrinder</i> Chair(s): <i>John Van De Ven</i> <b>Opening up indicators as boundary objects: fostering greater usefulness of indicators statistics entrepreneurship</b> <i>Markku Lehtonen</i> <b>Relevance of indicators for policy making</b> <i>Barbara Kurkowiak</i> <b>The intended and unintended consequences of ESA 2010</b> <i>Michael Connolly</i> Discussant(s): <i>Peter Van De Ven</i></p>
<p><b>IPS078</b> Room : C.-1.01</p>	<p><b>Innovative Approaches to Addressing (or Avoiding) Survey Non-Response</b> Organiser(s): <i>Linda Young</i> Chair(s): <i>Linda Young</i> <b>A holistic approach to eliminate the problem of nonresponse in surveys</b> <i>Peter Vig Jensen</i> <b>Potential use of UAS systems for enumerating area frame segments for agricultural statistics</b> <i>Jan Dempewolf</i> <b>Stemming the rising tide of nonresponse</b> <i>Barbara Rater</i> <b>Using real-time paradata analysis and response targeting in CAPI surveys</b> <i>Michael Wild</i> Discussant(s): <i>Michael Steiner</i></p>
<p><b>IPS082</b> Room : A.0.01</p>	<p><b>Using web scraping for data collection in official statistics ? challenges and opportunities</b> Organiser(s): <i>Bernd Stoertzbach</i> Chair(s): <i>Thomas Riede</i> <b>Massive web scraping of enterprises web sites: experiences and solutions</b> <i>Monica Scannapieco</i> <b>Web scraping job portals: are online job portal data a suitable data source for job vacancy statistics?</b> <i>Martina Rengers</i> <b>What should be the role of web scraping within official statistics?</b> <i>Nigel Swier</i> Discussant(s): <i>Thomas Körner</i></p>

<p><b>STS007</b> Room : A. - 1.05</p>	<p><b>Open the Data Revolution: Measuring the openness of national statistical systems and planning for improvements</b> Organiser(s): <i>Misha Belkindas</i> Chair(s): <i>Misha Belkindas</i> <b>How Open Are Official Statistics? Three Indexes of Data Coverage and Openness</b> <i>Eric Swanson</i> <b>Open Data and National Statistical Systems</b> <i>Graham Eele</i> <b>THE FIRST RESULTS OF ODIN.RUSSIA PROJECT</b> <i>Alexey Ponomarenko</i> Discussant(s): <i>Oliver Chinganya</i></p>
<p><b>STS818</b> Room : A. - 1.09</p>	<p><b>Quality of Multisource Statistics</b> Organiser(s): <i>Niels Ploug</i> <b>Evaluating the quality of administrative data as input for official statistics (quality of multisource statistics)</b> <i>Regin Reinert</i> <b>KOMUSO - ESSnet on quality of multisource statistics</b> <i>Niels Ploug</i> <b>Output quality of multi-source statistics</b> <i>Danute Krapavickait</i> <b>Quality measures and indicators of frames for social statistics arising from multiple sources</b> <i>Lee Zhang</i></p>
<p><b>STS042</b> Room : A. 1. 19</p>	<p><b>Potential Challenges to The Sustainable Development of emerging nations? Economic measurement</b> Organiser(s): <i>Xuguang Song</i> Chair(s): <i>Xuguang Song</i> <b>Can aggregation explain the high persistence of inflation in China? Empirical evidence from CPI disaggregate data</b> <i>Guangming Lv</i> <b>Labour market effects of integration into GVCs</b> <i>Xin Li</i> <b>Spatial impact of economic structure reform on China's energy consumption</b> <i>Nan Zhao</i> <b>The global flow-of-fund measurement using flow-of-funds matrices</b> <i>Jinzhu Du</i> Discussant(s): <i>Nan Zhang</i></p>

<p><b>STS066</b>  <b>Room : B.</b>  <b>1.04</b></p>	<p><b>Statistical models and applications of heavy tailed variables and processes</b>          Organiser(s): <i>Nourddine Azzaoui</i>          Chair(s): <i>Tomoko Matsui</i>  <b>An enhanced empirical mode decomposition</b>  <i>Marta Campi</i>  <b>Extremes of events with heavy-tailed inter-arrival times</b>  <i>Peter Straka</i>  <b>Modeling interference with alpha-stable distributions and copulae for receiver design in wireless communications</b>  <i>Laurent Clavier</i>  <b>Spectral characterization of the non-independent increment family of alpha-stable processes that generalize Gaussian process models.</b>  <i>Gareth Peters</i>  <b>TBD</b>  <i>Ido Nevat</i>          Discussant(s): <i>Arnaud Guillin</i></p>
<p><b>STS099</b>  <b>Room : A. -</b>  <b>1.07</b></p>	<p><b>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.</b>          Organiser(s): <i>Mary Gray</i>  <b>TBD</b>  <i>Mary Gray</i>  <b>TBD</b>  <i>Bryanna Mills</i>  <b>Writing and using web-based apps for student data collection</b>  <i>Donna Dietz</i></p>
<p><b>OR-B07</b>  <b>Room : A. -</b>  <b>1.11</b></p>	<p><b>Methods and Theory 07</b>  <b>Asymptotic properties of nonparametric conditional distribution estimators in the model of competing risks</b>  <i>Kossi Gneyou</i>  <b>Condensing information from multiple seasonality tests with random forests</b>  <i>Karsten Webel</i>  <b>Convergence of multi-centres in general spaces: a useful property in classification</b>  <i>Kalev Pärna</i>  <b>Estimation of Relations between Latent Variables in the Case of Incomplete Groups</b>  <i>Katrin Kraus</i>  <b>Modeling Dependence between Exchange rate and Short-term Interest rate: Statics Versus Time-Varying Copula</b>  <i>Laila Ait Hassou</i>  <b>Statistical Inference for Line Segment Process</b>  <i>Ko Abe</i></p>

<p><b>OR-B08</b> Room : A.-1.13</p>	<p><b>Methods and Theory 08</b>  <b>Augmentation of a filtration with a stochastic process</b>  <i>Leo Neufcourt</i>  <b>Exploring the Dynamic Relationship between CPI and PPP with International Panel Data</b>  <i>Menggen Chen</i>  <b>Forecast combination with state-dependent models: equity premium prediction</b>  <i>Luiz Hotta</i>  <b>Nonnegative Matrix Factorization: a (Semi-) Parametric Statistical View</b>  <i>Mélanie Zetlaoui</i>  <b>Selecting type-i and type-ii error probabilities in hypothesis testing with game-theory</b>  <i>Mehmet Sahinoglu</i>  <b>Sequential bagging approach to the regression framework</b>  <i>Mehdi Soleymani</i></p>
<p><b>OR-B09</b> Room : A.-1.14</p>	<p><b>Methods and Theory 09</b>  <b>A Generally Weighted Moving Average chart for Time Between Events</b>  <i>Niladri Chakraborty</i>  <b>A new test for multivariate normality based on probability plots of the squared normalized L2 norm</b>  <i>Mbanefo Madukaife</i>  <b>Multiple change points detection in weakly dependent random variables using filtered derivative and false discovery rate method.</b>  <i>Mohamed Elmi</i>  <b>Optimal Pseudo-Gaussian Test for Random Coefficients in Multiple Regression Models</b>  <i>Mohamed Fihri</i>  <b>Recycled Estimates for Linear Regression Models</b>  <i>Benzion Boukai</i>  <b>using Extrem Value theory to test for outliers</b>  <i>Nathaniel Gbenro</i></p>



<p><b>OR-B10</b> <b>Room : C.</b> <b>0.05</b></p>	<p><b>Methods and Theory 10</b> <b>A Mathematical Approach to the Probability Interpretation and to the Selection of Statistic Methods</b> <i>Paolo Rocchi</i> <b>Beyond GSBPM - Statistics Centre - Abu Dhabi</b> <i>Rabaa Baniyas</i> <b>Comparing skew-normal linear mixed models with mistimed covariate via the observed deviance information criterion</b> <i>Oludare Ariyo</i> <b>Deviance residuals based sparse PLS regression for censored data</b> <i>Philippe Bastien</i> <b>Stable Randomized Generalized Autoregressive Conditional Heteroskedastic Models</b> <i>Pedro Morettin</i> <b>Sustainable development on commuting: merging new data to enrich official statistics</b> <i>Pasi Piela</i></p>
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<p>PP-A06 Room : A. 0.21</p>	<p><b>Applications 06</b> <b>A Joint modelling approach to access the association between child and adult HIV infections in Kenya, having adjusted for covariates</b> <i>Elvis Muchene</i> <b>A statistical perspective to biomarkers as tools for decision making in early phase clinical development: the example of COPD</b> <i>Ziad Taib</i> <b>Addressing the Divide in Behavioural Cardiology using Bayesian Canonical Correlation Analysis for the Canadian Community Health Surveys</b> <i>Jalila Jbilou</i> <b>Coverage Bias in Telephone Surveys in Palestine</b> <i>Hassan Abuhassan</i> <b>Determinants of Longevity Risk in European country ? PCA approach</b> <i>Grazyna Trzpiot</i> <b>Disabilities people and unitholders races: comparative studies in Brazil with diagrams tree uses</b> <i>Paulo De Oliveira</i> <b>Effects of Longitudinal Blood Glucose Levels on Diabetes Complications in Bangladesh: A Joint Modelling Approach</b> <i>M. Tuhin Sheikh</i> <b>Estimating poverty and inequality indicators using a non parametric microsimulation tool</b> <i>Omar Sene</i> <b>Finding profiles on the energetic sector of G20 countries from 1990</b> <i>Karina Gibert</i> <b>Income related inequality and Burden of Overweight/obesity in India: A Decomposition analysis</b> <i>Mohd Shannawaz</i> <b>Measuring "Decent Work" in Egypt</b> <i>Mostafa Younes</i> <b>Modeling growth of biological processes using alternative nonlinear growth models</b> <i>Oluwafemi Oyamakin</i> <b>Multivariate Elliptically Contoured Distributions for Discrimination and Classi?cation.</b> <i>Akinlolu Olosunde</i> <b>New Poisson Regression Model as a Tool for Measuring Incidence of Maternal Death: Case Study of Ondo State Specialist Hospital, Akure, Nigeria</b> <i>Olabimpe Aladeniyi</i> <b>Nonparametric confidence intervals for tail dependence based on copula</b> <i>Seck Cheikh</i> <b>Using Knowledge Discovery approach to understand life conditions in Ecuador</b></p>
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*Karina Gibert*

**Using Nesstar Publisher Tool and GSBPM Model in Dissemination Metadata for statistical survey to make it more accessible for all users**

*Waleed Mohamed*

**Using Regularized PQL in Mixed Logistic Normal Approach to Analyse Crash Data**

*Hafidi Bezza*

**Youth and Ageing in two Latin American Countries: Brazil and Mexico**

*Alicia Bercovich*

<p>PP-A06 Room : A. 0.21</p>	<p><b>Methods and Theory 16</b> <b>A Joint modelling approach to access the association between child and adult HIV infections in Kenya, having adjusted for covariates</b> <i>Elvis Muchene</i> <b>A statistical perspective to biomarkers as tools for decision making in early phase clinical development: the example of COPD</b> <i>Ziad Taib</i> <b>Addressing the Divide in Behavioural Cardiology using Bayesian Canonical Correlation Analysis for the Canadian Community Health Surveys</b> <i>Jalila Jbilou</i> <b>Coverage Bias in Telephone Surveys in Palestine</b> <i>Hassan Abuhassan</i> <b>Determinants of Longevity Risk in European country ? PCA approach</b> <i>Grazyna Trzpiot</i> <b>Disabilities people and unitholders races: comparative studies in Brazil with diagrams tree uses</b> <i>Paulo De Oliveira</i> <b>Effects of Longitudinal Blood Glucose Levels on Diabetes Complications in Bangladesh: A Joint Modelling Approach</b> <i>M. Tuhin Sheikh</i> <b>Estimating poverty and inequality indicators using a non parametric microsimulation tool</b> <i>Omar Sene</i> <b>Finding profiles on the energetic sector of G20 countries from 1990</b> <i>Karina Gibert</i> <b>Income related inequality and Burden of Overweight/obesity in India: A Decomposition analysis</b> <i>Mohd Shannawaz</i> <b>Measuring "Decent Work" in Egypt</b> <i>Mostafa Younes</i> <b>Modeling growth of biological processes using alternative nonlinear growth models</b> <i>Oluwafemi Oyamakin</i> <b>Multivariate Elliptically Contoured Distributions for Discrimination and Classi?cation.</b> <i>Akinlolu Olosunde</i> <b>New Poisson Regression Model as a Tool for Measuring Incidence of Maternal Death: Case Study of Ondo State Specialist Hospital, Akure, Nigeria</b> <i>Olabimpe Aladeniyi</i> <b>Nonparametric confidence intervals for tail dependence based on copula</b> <i>Seck Cheikh</i> <b>Using Knowledge Discovery approach to understand life conditions in Ecuador</b></p>
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<p><b>IPS007</b> Room : B.0.02</p>	<p><b>Advances in Reliability and Risk with Novel Applications</b> Organiser(s): <i>Nalini Ravishanker</i> Chair(s): <i>Nalini Ravishanker</i> <b>Adversarial issues in life testing</b> <i>Refik Soyer</i> <b>Contributions to multistate transition modeling</b> <i>Vijay Nair</i> <b>Service life prediction of field-exposed units based on laboratory accelerated degradation test data</b> <i>William Meeker</i></p>
<p><b>IPS024</b> Room : A.0.01</p>	<p><b>Official statistics in the age of Big Data</b> Organiser(s): <i>Bruno Tissot</i> Chair(s): <i>Aurel Schubert</i> <b>Adopting Big Data technologies in the production of official statistics: opportunities, experiences and lessons learned</b> <i>Antonino Virgillito</i> <b>Assessing the use of Google Trends to predict credit developments</b> <i>Edwige Burdeau</i> <b>Improving financial information processing: a case for a Big Data architecture</b> <i>Mario Gaytan</i> <b>Measuring Employment Using Big Data on Electronic Salary Payments</b> <i>Anil Kumar Sharma</i></p>
<p><b>IPS027</b> Room : A.1.16</p>	<p><b>Perfect Simulation</b> Organiser(s): <i>Wilfrid Kendall</i> Chair(s): <i>Wilfrid Kendall</i> <b>Linear time perfect simulation for Markov random fields</b> <i>Mark Huber</i> <b>Omnithermal perfect simulation</b> <i>Stephen Connor</i> Discussant(s): <i>Kerrie Mengersen</i></p>
<p><b>IPS131</b> Room : C.-1.02</p>	<p><b>Quantifying Uncertainty in Large and Complex Data</b> Organiser(s): <i>Lederer Johannes</i> Chair(s): <i>Lederer Johannes</i> <b>Methods for multiple testing error control on sequential data</b> <i>Jay Bartroff</i> <b>Modeling disease propagation in networks: source-finding and influence maximization</b> <i>Po-Ling Loh</i> <b>On tight bounds for the Lasso</b> <i>Sara Van De Geer</i> <b>Randomization-based inference with complex data need not be complex!</b> <i>Susan Murphy</i></p>

<p><b>IPS036</b> Room : B.1.03</p>	<p><b>The Impact of the Hegire Calendar in Time Series Analysis; an international comparison</b> Organiser(s): <i>Dominique Ladiray</i> Chair(s): <i>Dominique Ladiray</i> <b>Calendar effect correction in the collinearity context: case of Morocco</b> <i>Ali El Guellab</i> <b>Calendar effects on Senegalese series</b> <i>Mamadou Daffe</i> <b>Comparative study on the effects of Ramadan on consumer prices</b> <i>Modou Ndour Faye</i> Discussant(s): <i>Dario Buono</i></p>
<p><b>IPS142</b> Room : A.-1.02</p>	<p><b>Big Data and visualization: Challenges and opportunities</b> Organiser(s): <i>Paulo Rodrigues</i> Chair(s): <i>Patrick Groenen</i> <b>Challenges for time series in the world of Big Data</b> <i>Paulo Rodrigues</i> <b>Robust SNP-based estimation of heritability</b> <i>Vanda Lourenço</i> <b>Sparse Bayesian time-varying covariance estimation in many dimensions</b> <i>Gregor Kastner</i> Discussant(s): <i>Genevera Allen</i></p>
<p><b>IPS045</b> Room : C.-1.01</p>	<p><b>Computer-intensive Bayesian methods for analyzing biomedical data: A blissful marriage, or some midlife crisis?</b> Organiser(s): <i>Dipankar Bandyopadhyay</i> Chair(s): <i>Michele Guindani</i> <b>Bayesian nonparametric graph clustering</b> <i>Veera Baladandayuthapani</i> <b>Nonparametric spatial models for clustered ordered periodontal data</b> <i>Dipankar Bandyopadhyay</i> <b>Novel Bayesian methods for Skewed biomedical response data</b> <i>Debajyoti Sinha</i> <b>On Bayesian modeling and inference for massive spatial-temporal datasets</b> <i>Sudipto Banerjee</i></p>

<p><b>IPS081</b> Room : A.1.18</p>	<p><b>Developing Composite Indicators: from academics to practice</b> Organiser(s): <i>Stefan Sperlich</i> Chair(s): <i>Stefan Sperlich</i> <b>Allowing composite indicators to learn</b> <i>Jan-Egbert Sturm</i> <b>Measuring well-being: human development approach</b> <i>Milorad Kovacevic</i> <b>On the measurement and forecasting of business cycles and growth cycles in the global economy</b> <i>Abdul A. Erumban</i></p>
<p><b>IPS092</b> Room : B.0.01</p>	<p><b>Do modern statistical institutes need modern legislation?</b> Organiser(s): <i>Gemma Van Halderen</i> Chair(s): <i>Gemma Van Halderen</i> <b>Do modern statistical institutes need modern legislation - case of Finland</b> <i>Marjo Bruun</i> <b>Do modern statistical offices need modern legislation? The New Zealand Experience in modernizing its statistics legislation</b> <i>David Alsop</i> <b>Is modern legislation the key to unlocking better statistics for better decisions?</b> <i>Rob Bumpstead</i> <b>Modernisation of legislation in the European statistical system and beyond</b> <i>Pieter Everaers</i> Discussant(s): <i>Nicola Shearman</i></p>
<p><b>STS713</b> Room : B.1.04</p>	<p><b>Quality management in National Statistical Offices</b> Organiser(s): <i>Jean-Michel Durr</i> Chair(s): <i>Margaret Mbogoni</i> <b>Implementation of quality management - Palestine case- and its impact on quality dimensions</b> <i>Ali Hussein</i> <b>ISO based process model (Map) - a good tool for standardization, quality documentation and improvement.</b> <i>Laura Luksaite-Balakauskiene</i> <b>Recent practices in quality assurance in national statistical offices</b> <i>Jean-Michel Durr</i> <b>TBD</b> <i>Enrique Jesus Ordaz Lopez</i></p>



<p><b>STS014</b> Room : A. - 1.07</p>	<p><b>Recent Developments in Dynamic Treatment Regimes</b> Organiser(s): <i>Yair Goldberg</i> Chair(s): <i>Yair Goldberg</i> <b>Change-point detection for infinite horizon dynamic treatment regimes</b> <i>Malka Gorfine</i> <b>Estimating dynamic treatment regimes in mobile health using V-learning</b> <i>Daniel Luckett</i> <b>On control charts run in parallel</b> <i>Moshe Pollak</i></p>
<p><b>STS021</b> Room : A. - 1.05</p>	<p><b>From Big Data to Smart Statistics</b> Organiser(s): <i>Michail Skaliotis</i> Chair(s): <i>Mariana Kotzeva</i> <b>ICT Enables Data Analytics towards Smarter Statistics</b> <i>Karabet Krikorian</i> <b>Glocalised smart statistics and analytics of things - core challenges and key issues for smart (official) statistics at the edge</b> <i>Diego Kuonen</i> <b>The role of ontologies for official statistics</b> <i>Monica Scannapieco</i> <b>Trust in smart statistics</b> <i>Evelyn Ruppert</i> Discussant(s): <i>Hetan Shah</i></p>
<p><b>STS030</b> Room : A. - 1.06</p>	<p><b>Building and financing statistical capacity to measure SDG's</b> Organiser(s): <i>Misha Belkindas</i> Chair(s): <i>Haishan Fu</i> <b>Financing the Data Revolution: How much it cost to meet the data demand of the SDG's</b> <i>Misha Belkindas</i> <b>Priorities of statistical capacity building in distributed models of NSS in modern ICT environment</b> <i>Jozef Olenski</i> <b>TBD</b> <i>Alexey Ponomarenko</i> Discussant(s): <i>Heli Mikkela</i></p>

<p><b>STS032</b> Room : A. - 1.09</p>	<p><b>The benefits of regional programs/initiatives on statistical cooperation: some evidences drawn from the field</b> Organiser(s): <i>Thierry Paccoud</i> Chair(s): <i>Jan Robert Suesser</i> <b>ASEAN Community Statistical System: Two Decades of Cooperation in Statistics</b> <i>Elizabeth Alarilla</i> <b>National Statistical Institutes: Morocco case</b> <i>Paul Henri Nguema Meye</i> <b>Regional cooperation in the MED countries: boosting collaboration and exchanges within and among the countries for the benefit of all</b> <i>Thierry Paccoud</i> <b>The Value added of regional cooperation for</b> <i>Hasnae Fdhil</i> <b>Why Regional Cooperation in Statistics: A Perspective from Turkey</b> <i>Alper Gucumengil</i></p>
<p><b>STS033</b> Room : A. 1.17</p>	<p><b>The use of new technologies, new techniques and new data sources for transport and mobility statistics in the Mediterranean region.</b> Organiser(s): <i>Bouazza Bouchkhar</i> Chair(s): <i>Thierry Coulet</i> <b>Jordan transport sector data warehouse challenges and key issues</b> <i>Osama Karadsheh</i> <b>Proposed architecture for dealing with transport Big Data via cooperation between different transport systems</b> <i>Ayman Ghazy</i> <b>Transport statistics in Palestine new technology new technique and new data sources against UN principals and the best practice and ethics</b> <i>Hani Alahmad</i></p>

<p><b>STS034</b>  <b>Room : A. 1.</b>  <b>19</b></p>	<p><b>Population Size Estimation in Official Statistics</b>  Organiser(s): <i>Bart Bakker, Tiziana Tuoto</i>  Chair(s): <i>Bart Bakker</i>  <b>A unified framework for deduplication, record linkage and inference for linked data</b>  <i>Andrea Tancredi</i>  <b>An overview of population size estimation with linking registers results in incomplete covariates, with an application to mode of transport of serious road casualties</b>  <i>Peter Van Der Heijden</i>  <b>Extending Dual System Estimation (DSE) methods to explore estimates of population inflows and outflows</b>  <i>John Dunne</i>  <b>Two improvements of the method for population size estimation</b>  <i>Tiziana Tuoto</i>  Discussant(s): <i>Peter Van Der Heijden</i></p>
<p><b>OR-D01</b>  <b>Room : C.</b>  <b>0.05</b></p>	<p><b>Statistical Education 01</b>  <b>Geometric perspectives on student performance at the Copperbelt University in Zambia</b>  <i>Niel Le Roux</i>  <b>Scoring System for Graduate School Admissions Using Logit Models</b>  <i>Josefina Almeda</i>  <b>Teaching Optimization of educational expenditure</b>  <i>Mamadou Youry Sall</i>  <b>Using chatbots to engage introductory statistics students in qualitative research</b>  <i>Michael Bulmer</i></p>
<p><b>OR-B03</b>  <b>Room : A. -</b>  <b>1.11</b></p>	<p><b>Methods and Theory 03</b>  <b>Covariate-Adjusted Response-Adaptive Designs for Weibull Distributed Survival Responses</b>  <i>Ayon Mukherjee</i>  <b>Introducing hedonic quality adjustment in the official price statistics: Evidence from the Tunisian smartphones market</b>  <i>Chiraz Karamti</i>  <b>Modernisation of the European Agricultural Statistics System (EASS): Strategy for Agricultural Statistics 2020 and beyond</b>  <i>Christine Wirtz</i>  <b>Nonparametric Tests of Regularity Conditions of Extreme Value Theory</b>  <i>Cherif Traore</i>  <b>Optimal Allocation with Multivariate Extremes Value Theory</b>  <i>Abdellah Belhajjam</i>  <b>Robust logistic quantile regression models using skewed heavy-tailed distributions</b>  <i>Christian Galarza</i></p>

<p><b>OR-B11</b> Room : A.-1.13</p>	<p><b>Methods and Theory 11</b>  <b>Creating a National Statistical Institute in a federalised country: the case of Statistics Flanders</b>  <i>Roeland Beerten</i>  <b>Defuzzification of a fuzzy hypothesis decision by the signed distance method</b>  <i>Rédina Berkachy</i>  <b>Efficient estimation of large approximate factor models using sparse principal components analysis</b>  <i>Rachida Ouysse</i>  <b>Geometric dispersion models with quadratic v-functions</b>  <i>Rahma Abid</i>  <b>On the construction of exponential families of Wishart distributions on convex cones</b>  <i>Salha Mamane</i>  <b>Preconceived ideas and the interpretation of the p-value as evidence against the null hypothesis. A randomized trial</b>  <i>Ronnie Pingel</i></p>
<p><b>OR-B12</b> Room : A.-1.14</p>	<p><b>Methods and Theory 12</b>  <b>Comparison of the confidence bands for quantile residual life function with right-censored data</b>  <i>Yunchan Chi</i>  <b>Hierarchical kernel applied to mixture model for the classification of binary predictors</b>  <i>Seydou Nourou Sylla</i>  <b>How the UK Office for National Statistics is Embracing Data Science</b>  <i>Solange Correa-Onel</i>  <b>Occupation times problem of certain self-similar processes related to the fractional Brownian motion</b>  <i>Soufiane Moussaten</i>  <b>Parameter inestimability and degrees of freedom in hierarchical loglinear models for sparse contingency tables with zero counts</b>  <i>Stephen Haslett</i>  <b>Testing missingness in the case of categorical data.</b>  <i>Serguei Rouzinov</i></p>

<p><b>IPS003</b> Room : A.0.01</p>	<p><b>ISI invited session with Statistical Societies Presidents - IBS and IMS</b> Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> <b>A brief history of the IMS (institute of mathematical statistics)</b> <i>Richard Davis</i> <b>The international biometric society: an ISI partner in worldwide research and education</b> <i>Elizabeth Thompson</i></p>
<p><b>IPS015</b> Room : C.-1.02</p>	<p><b>CSDA Journal Session</b> Organiser(s): <i>Erricos Kontoghiorghes., Jae C Lee</i> Chair(s): <i>Chun-Houh Chen</i> <b>Developing an web-based graphical software K-plots for elementary statistics education</b> <i>Jung Lee</i> <b>Partial least squares and composite-based approaches to predictive path modeling: history, methodological foundations and recent advances</b> <i>Pasquale Dolce</i> <b>Random forests for Big Data</b> <i>Jean-Michel Poggi</i></p>
<p><b>IPS145</b> Room : A.1.18</p>	<p><b>Bernoulli Journal Special Invited Session</b> Organiser(s): <i>Holger Dette, Sara Van De Geer</i> Chair(s): <i>Mark Podolskij</i> <b>Quantile spectral analysis for locally stationary time series</b> <i>Marc Hallin</i></p>
<p><b>IPS150</b> Room : A.-1.02</p>	<p><b>TIES President's Panel session Towards a sustainable environment: the challenge of persuading a sceptical audience of the important impacts predicted from scientific research</b> 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>
<p><b>IPS162</b> Room : A.1.16</p>	<p><b>ISI Jan Tinbergen Award Winners</b> Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Francisco Louzada</i> <b>Modelling time series of counts with deflation or inflation of zeros</b> <i>Marcelo Pereira</i> <b>Robust logistic quantile regression models using skewed heavy-tailed distributions</b> <i>Eduardo Morales Galarza</i></p>

<p><b>PO-E03</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Business &amp; Industry 03</b>  <b>Predictive Analysis Applied in the Field of Cosmetics Industry</b>  <i>Youssef Idelcaid</i>  <b>The simultaneous multivariate Hawkes-type point processes and their application to financial markets</b>  <i>Daisuke Kurisu</i></p>
<p><b>PO-F04</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Official Statistics 04</b>  <b>Measuring export performance and competitiveness : a constant market share analysis of Moroccan exports</b>  <i>Lina Tazi</i>  <b>Statistics in a post-truth society. Determinants of confidence, independence and usage of official statistics</b>  <i>Serge Allegrezza</i>  <b>Towards Constructing Egyptian Consumer Confidence Index (ECCI) based on Social Media Sentiments</b>  <i>Rojan Asem</i></p>
<p><b>PO-A17</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Applications 17</b>  <b>Analysis of explanatory factors of the rural exodus in morocco</b>  <i>Mustapha Berrouyne</i>  <b>Impact of missing values on variance component estimates in multienvironment yield trials</b>  <i>Eno Akarawak, Fernando Aguete</i>  <b>MODELLING HEALTH CARE DATA USING RAYLEIGH-PARETO DISTRIBUTION</b>  <i>Eno Akarawak, Fernando Aguete</i>  <b>Recurring Continuous Model of an Expert System for Medical Data Analysis three Dimensions (genetic, spatial and temporal): cervical cancer in Morocco</b>  <i>Ghizlane Hazam</i>  <b>Testing the performance of spatial interpolation techniques for yield mapping with Big Data</b>  <i>Mónica Balzarini</i>  <b>Using the real estate price index to detecting a speculative bubble : evidence of morocco</b>  <i>Zakaria Firano</i></p>

<p>PO-A17 Room : A. 0.20</p>	<p><b>Applications 17</b> <b>Analysis of explanatory factors of the rural exodus in morocco</b> <i>Mustapha Berrouyne</i> <b>Impact of missing values on variance component estimates in multienvironment yield trials</b> <i>Eno Akarawak, Fernando Aguete</i> <b>MODELLING HEALTH CARE DATA USING RAYLEIGH-PARETO DISTRIBUTION</b> <i>Eno Akarawak, Fernando Aguete</i> <b>Recurring Continuous Model of an Expert System for Medical Data Analysis three Dimensions (genetic, spatial and temporal): cervical cancer in Morocco</b> <i>Ghizlane Hazam</i> <b>Testing the performance of spatial interpolation techniques for yield mapping with Big Data</b> <i>Mónica Balzarini</i> <b>Using the real estate price index to detecting a speculative bubble : evidence of morocco</b> <i>Zakaria Firano</i></p>
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<p><b>IPS008</b>  <b>Room : A.1.16</b></p>	<p><b>Peace, justice and strong institutions: measuring sdg16</b>  Organiser(s): <i>Mario Palma</i>  Chair(s): <i>Mario Palma</i>  <b>Importance of the use of governance statistics: case of the Praia Group</b>  <i>Oswaldo Borges</i>  <b>Measuring the SDG's Goal 16. Are we ready? The mexican context</b>  <i>Adrian Franco Barrios</i>  <b>Measuring trust, governance, participation, public debate, and people's rights and responsibilities: the Australian experience</b>  <i>Michael Smedes</i>  <b>Peace, justice and strong Institutions: measuring SDG16</b>  <i>Nadim Ahmad</i>  Discussant(s): <i>Rodrigo Reyes</i></p>
<p><b>IPS138</b>  <b>Room : A.-1.02</b></p>	<p><b>Statistical Modeling of Natural Hazards</b>  Organiser(s): <i>Jiancang Zhuang, Serge Guillas</i>  Chair(s): <i>Serge Guillas</i>  <b>An ANOVA-type procedure for replicated spatio-temporal point patterns with environmental applications</b>  <i>Jorge Mateu</i>  <b>Bayesian inference and predictive accuracy of failure models driven by a self-correcting point process for long-term recurrence of strong earthquakes</b>  <i>Elisa Varini</i>  <b>Modelling earthquake clustering and stochastic reconstruction</b>  <i>Jiancang Zhuang</i>  <b>Short-term probabilistic hazard mapping - forecasting catastrophe without stationary assumptions</b>  <i>Elaine Spiller</i>  Discussant(s): <i>Peter Challenor</i></p>



<p><b>IPS053</b> Room : A.1.18</p>	<p><b>Does the production of official statistics need to be a separate branch of government or should it remain within the executive branch of government?</b> Organiser(s): <i>Andreas Georgiou</i> Chair(s): <i>Hallgrimur Snorrason</i> <b>A statistical system integrated in the national central administration: the French experience</b> <i>Jean-Luc Tavernier</i> <b>Statistics in politics: from skiing on the broad and smooth to the serrated side of the saw</b> <i>Pali Lehohla</i> <b>The production of official statistics needs to be a separate branch of government</b> <i>Andreas Georgiou</i> <b>What does an independent statistical agency mean in practice?</b> <i>Dennis Trewin</i> Discussant(s): <i>Gerry O' Hanlon</i></p>
<p><b>IPS056</b> Room : A.0.01</p>	<p><b>Challenges of Promoting Statistical Literacy in Africa.</b> Organiser(s): <i>Olusanya Olubusoye</i> Chair(s): <i>Olusanya Olubusoye</i> <b>A review of statistical education in Nigeria and the challenges</b> <i>Pamela Achinonu</i> <b>Involvement of private universities in statistical education in Nigeria: prospects and challenges</b> <i>Modupe Okewole</i> <b>The roles of national statistical offices in promoting statistical education in Africa</b> <i>Oluwaseun Otekunrin</i> <b>Use of modern technology for teaching statistics in Nigeria: progress and challenges</b> <i>Ademola Sodipo</i> Discussant(s): <i>Adedayo Adepoju</i></p>

<p><b>IPS057</b> Room : B.1.03</p>	<p><b>Small Area Estimation in Developing Countries</b> Organiser(s): <i>Monica Pratesi</i> Chair(s): <i>Monica Pratesi</i> <b>Small area estimation in agriculture: the Tanzania experience</b> <i>Stefano Marchetti</i> <b>Spatial disaggregation and small area estimation for surveys in developing countries: challenges, problems and perspectives</b> <i>Carola Fabi</i> <b>The agriculture censuses in the 21st century and link with population census with use of new technology: the case of Ethiopia</b> <i>Aberash Abaye</i> <b>Use of Small area estimation for rare crops data in agricultural statistics: case of Burkina Faso and Brazil</b> <i>Flavio Bolliger</i> Discussant(s): <i>Emily Berg</i></p>
<p><b>IPS072</b> Room : C.-1.01</p>	<p><b>Bayesian models for complex structures</b> Organiser(s): <i>Subhashis Ghoshal</i> Chair(s): <i>Sujit Sahu</i> <b>A Bayesian nonparametric longitudinal model for predicting the temporal progression of Alzheimer's disease</b> <i>Sara Wade</i> <b>Analyzing ozone concentration by Bayesian spatio-temporal quantile regression</b> <i>Subhashis Ghoshal</i> <b>Bayesian estimation of optimal differencing operator in cointegrated systems</b> <i>Anindya Roy</i> <b>Dependent random measures in bayesian nonparametrics</b> <i>Igor Pruenster</i> Discussant(s): <i>Isadora Villalobos</i></p>
<p><b>IPS083</b> Room : B.0.02</p>	<p><b>New Approaches for Agricultural Statistics</b> Organiser(s): <i>Michael Steiner</i> Chair(s): <i>Michael Steiner</i> <b>Combining administrative and geo-spatial data for agri-environmental policy analysis</b> <i>Marca Weinberg</i> <b>Efficacy of mobile mapping technology for the june area survey</b> <i>Wendy Barboza</i> <b>How to analyse productivity and competitiveness of the Hungarian agriculture</b> <i>Eva Laczka</i> <b>Modernization of agricultural statistical systems through InteGra</b> <i>Chanchal Pramanik</i> Discussant(s): <i>Romeo Recide</i></p>

<p><b>IPS089</b> Room : B.0.01</p>	<p><b>Improvements of the quality of population and housing censuses in the 2020 round</b> Organiser(s): <i>Francoise Dupont</i> Chair(s): <i>Francoise Dupont</i> <b>A census with less money and better quality</b> <i>Dominique Guedes</i> <b>A global overview of census quality improvements at the onset of the 2020 round</b> <i>Jean Michel Durr</i> <b>New methodology in the field of combining administrative sources and direct data collection</b> <i>Janusz Dygaszewicz</i> <b>Population census using pda hand held device: benefits and challenge, the experience of Senegal</b> <i>Aboubacar Beye</i> Discussant(s): <i>Paolo Valente</i></p>
<p><b>IPS093</b> Room : A.-1.08</p>	<p><b>Distributional Data Analysis</b> Organiser(s): <i>Rosanna Verde</i> Chair(s): <i>Rosanna Verde</i> <b>Activity recognition using personal mobile devices and histogram data</b> <i>Javier Arroyo</i> <b>Functional regression concurrent model with spatially correlated errors: Application to precipitation pro les in Valle del Cauca, Colombia</b> <i>Nistor Grozavu</i> <b>Histogram data stream clustering using dynamic topological learning</b> <i>Guenael Cabanes</i> <b>Subspace clustering of distributional data: some concurrent algorithms</b> <i>Antonio Irpino</i> Discussant(s): <i>Paula Brito</i></p>

<p><b>IPS095</b> Room : C.-1.02</p>	<p><b>Measurement of decent work, quality of employment and job quality: Comparisons of international frameworks and national experiences</b> Organiser(s): <i>Monica Castillo</i> Chair(s): <i>Alain Vuille</i> <b>Decent work measurement: The case of Azerbaijan</b> <i>Nemat Khuduzade</i> <b>Employment quality measurement: the statistical framework of the UNECE and implementation experiences in Germany</b> <i>Thomas Korner</i> <b>International frameworks on measuring decent work and quality of employment: key differences and complementarities</b> <i>Monica Castillo</i> <b>Measuring and assessing job quality</b> <i>Sandrine Cazes</i> <b>Moroccan women, a potential undervalued!</b> <i>Jamal Guennouni</i> Discussant(s): <i>Tite Habiyakare</i></p>
<p><b>STS013</b> Room : A. - 1.05</p>	<p><b>Methodology and Practice of Earning and Income from Employment Statistics</b> Organiser(s): <i>Elena Zarova</i> Chair(s): <i>Konstantin Laykam</i> <b>Interdependence of international educational flows and countries' economic development: issues of statistical approach</b> <i>Maria Frolova</i> <b>Perfection of the methodology of earnings statistics in the Russian federation</b> <i>Elena Zarova</i> <b>Social demographic factors of the wage in Russia: econometric approach</b> <i>Irina Eliseeva</i> <b>TBD</b> <i>Konstantin Laykam</i> <b>TBD</b> <i>Misha Belkindas</i> <b>TBD</b> <i>Sergey Musikhin</i> Discussant(s): <i>Pavel Smelov</i></p>

<p><b>STS024</b>  <b>Room : A. -</b>  <b>1.07</b></p>	<p><b>The Use of Statistics in Human Rights, Humanitarian, and Developmental Projects World-Wide</b>  Organiser(s): <i>Cathy Furlong</i>  Chair(s): <i>Ramesh Srivastava</i>  <b>Statistical consulting on human rights and humanitarian projects</b>  <i>Susan Hinkins</i>  <b>Statistics without borders projects: human rights, humanitarian, and developmental projects World-Wide</b>  <i>Cathy Furlong</i>  <b>The effort for egalitarian rights on education in Brazil: a statistician's look</b>  <i>Jair Koiller</i>  <b>The use of statistics in human right, humanitarian, and developmental projects Word-Wide</b>  <i>Mary Gray</i>  <b>The use of statistics in human rights, humanitarian, and developmental projects World-Wide population assessment of ukraine 2015 project</b>  <i>Ramesh Srivastava</i>  Discussant(s): <i>Mary Gray</i></p>
<p><b>STS026</b>  <b>Room : A. -</b>  <b>1.06</b></p>	<p><b>Measurement of Tourism Satellite Account for Policy and Business Analysis</b>  Organiser(s): <i>Riyanti Saari</i>  Chair(s): <i>Zainuddin Ahmad</i>  <b>Growing Importance of Tourism to Malaysia's Economy</b>  <i>Kanageswary Ramasamy</i>  <b>Measuring the economic impact of inbound tourism in Hong Kong</b>  <i>Gloria Ma</i>  <b>TBD</b>  <i>Jamia Aznita Jamal</i>  <b>Tourism statistics and TSA: the case of Turkey</b>  <i>Nazende Coskun</i>  Discussant(s): <i>Mohd Uzir Mahidin</i></p>

<p><b>STS049</b>  <b>Room : A. - 1.09</b></p>	<p><b>Recent Advances in Count Data Regression</b>  Organiser(s): <i>Somnath Datta</i>  Chair(s): <i>Somnath Datta</i>  <b>A COM-Poisson mixed model with normal random effects for clustered count data</b>  <i>Darcy Morris</i>  <b>A robust score test of homogeneity for zero-inflated count data</b>  <i>Kyungmann Kim</i>  <b>Analyzing clustered count data with cluster-specific random effect zero-inflated Conway-Maxwell-Poisson distribution</b>  <i>Somnath Datta</i>  <b>Network analysis of next-generation sequencing count data</b>  <i>Susmita Datta</i>  <b>Power and reversal power links for binary regressions</b>  <i>Francisco Louzada</i></p>
<p><b>STS062</b>  <b>Room : A. 1. 19</b></p>	<p><b>African Data Initiative</b>  Organiser(s): <i>David Stern</i>  Chair(s): <i>Roger Stern</i>  <b>AIMS, Africa and ADI</b>  <i>Mark Roberts</i>  <b>An easy-to-use tool for climatic data analysis for decision making in agriculture</b>  <i>Francis Torgbor</i>  <b>Improving Learning of Statistics in Kenyan and Tanzanian schools</b>  <i>Zach Mbasu</i>  <b>Improving resources for the analysis of agricultural research data in Africa and beyond</b>  <i>Andree Nenkam</i>  <b>Introducing R-Instat</b>  <i>Danny Parsons</i>  <b>Opportunities and challenges of statistics education initiatives at Maseno university, Kenya</b>  <i>James Musyoka</i>  Discussant(s): <i>John Lunalo, Lily Clements, Maxwell Fundi</i></p>

<p><b>STS086</b> Room : A. 1.17</p>	<p><b>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</b> Organiser(s): <i>Evelio O. Fabbroni</i> Chair(s): <i>Enrique De Alba</i></p> <p><b>Assessing the quality of register-based population censuses: processes and outputs</b> <i>Bart Bakker</i></p> <p><b>Data Quality Assessment in the IPUMS: Processing, Formal Review, and the Research Community</b> <i>Lara Cleveland</i></p> <p><b>The 2021 population and housing census in Spain: challenges and findings</b> <i>Jorge Luis Vega Valle</i></p> <p><b>The Census in Mexico; its history, recent developments, achievements and challenges</b> <i>Carole Odette Schmitz Basañez</i></p> <p><b>The population census, methodology, quality control, output and challenges</b> <i>Alphonse L. Macdonald</i></p>
<p><b>STS093</b> Room : B. 1.04</p>	<p><b>Practical applications of micro-macro linkages and networks in policy analysis</b> Organiser(s): <i>Ilija Kristian Kavonius</i> Chair(s): <i>Ilija Kristian Kavonius</i></p> <p><b>An analysis of income distribution by linking household surveys with national accounts measurements</b> <i>Martha Tovar</i></p> <p><b>Hedonic Housing Price Estimation Using Administrative Micro-data</b> <i>Kim Sungjun</i></p> <p><b>Linking micro-data on households to national accounts: the OECD disparities in national accounts project</b> <i>Peter Van De Ven</i></p> <p><b>Measuring the distribution of household wealth using the financial accounts of the United States</b> <i>Susan Mcintosh</i></p> <p><b>Monitoring systemic institutions for the analysis of micro-macro linkages and network effects</b> <i>Bruno Tissot</i></p>

<p><b>OR-G02</b>  <b>Room : C.</b>  <b>0.05</b></p>	<p><b>Survey Statistics 02</b>  <b>Census Microdata and the 2030 Agenda: IPUMS for SDG Measurement and Disaggregation</b>  <i>Kristen Jeffers</i>  <b>Inferences based on order statistics from extended samples</b>  <i>Mohammad Ahsanullah</i>  <b>Methodology and Implementation of Global Youth Tobacco Surveys: Challenges and Opportunities</b>  <i>Krishna Mohan Palipudi</i>  <b>Nontechnical Errors in Statistical Collaborative Research</b>  <i>Jeffrey Dawson</i>  <b>On a CLT for functionals of standard exponential variables motivated by Extreme Value Theory</b>  <i>Modou Ngom</i>  <b>Response-based sampling for binary choice models with sample selection</b>  <i>Maria Felice Arezzo</i>  <b>Using a pseudo mixed survey to measure informal sector: the case of Senegal</b>  <i>Mamadou Kane</i></p>
<p><b>OR-A03</b>  <b>Room : A. -</b>  <b>1.11</b></p>	<p><b>Applications 03</b>  <b>Cancer Gene Analysis by Singh et al. Microarray Data</b>  <i>Shuichi Shinmura</i>  <b>Comparative smoothing techniques in logistic regression model with application to biochemical analysis</b>  <i>Souad Behcrouri</i>  <b>Correlates of Life Expectancy and HIV/AIDS in South Africa</b>  <i>Sathiya Susuman Appunni</i>  <b>Effective Experience Analysis of Breast Cancer Death Rates for Japanese Elderly Women</b>  <i>Nobutane Hanayama</i>  <b>Metrics for measuring risk of incapacity for Australian Retirement Village Residents</b>  <i>Timothy Kyng</i>  <b>Statistical approaches to antibody data analysis for populations on the path to malaria elimination</b>  <i>Nuno Sepúlveda</i>  <b>Using imputed genotype data in the joint score tests for genetic association and gene-environment interactions in case-control studies</b>  <i>Minsun Song</i></p>



<p><b>OR-A04</b> Room : A.-1.13</p>	<p><b>Applications 04</b>  <b>A study on the Improvement of the Student Generation Rates using the public data</b>  <i>Soorin Hwang</i>  <b>Leveraging the Power of High Performance Computing for Surface Area Calculations of Massive Land Cover Data in China(double, Feb,25,2017)</b>  <i>Chun Dong</i>  <b>Power and Practicality of Large Supersaturated Designs</b>  <i>Varun Khemani</i>  <b>Spatial functional linear regression with derivatives</b>  <i>Bouka Stephane</i>  <b>Spatially Constrained Mixture Model for Areal Data with Noise Points</b>  <i>Cunyi Wang</i>  <b>Statistical Data Depth for Covariance and Spectral Density Matrices</b>  <i>Joris Chau</i>  <b>The use of statistical modelling to analyse women´s participation in Brazilian cinema</b>  <i>Paula Almeida</i></p>
<p><b>OR-B06</b> Room : A.-1.14</p>	<p><b>Methods and Theory 06</b>  <b>Analytical framework for extreme eigenvalue distributions of complex noncentral Wishart type</b>  <i>Johannes Ferreira</i>  <b>How to organise the production of cross-border statistics?</b>  <i>Johan Van Der Valk</i>  <b>Modelling Recurrent Pneumococcal Acquisition of Multiple Event Types: Extending the Prentice, Williams &amp; Petersen Model</b>  <i>Jordache Ramjith</i>  <b>On some approximate stochastic orders</b>  <i>Juan A. Cuesta-Albertos</i>  <b>Prediction for Progressively Type II Censored Lifetimes From Weibull Distribution in a Simple Step-Stress Model</b>  <i>Indrani Basak</i>  <b>Stochastic Modelling and Projection of Mortality Improvements</b>  <i>Jon Forster</i></p>

<p><b>IPS101</b> Room : A.-1.08</p>	<p><b>Recent Developments in Genetic Association Studies</b> Organiser(s): <i>Malka Gorfine</i> Chair(s): <i>Malka Gorfine</i> <b>Genetic risk prediction using support vector machines</b> <i>Yair Goldberg</i> <b>How small data can leverage Big Data</b> <i>Bhramar Mukherjee</i> <b>Set-based genetic association analysis with complex traits</b> <i>Li Hsu</i></p>
<p><b>IPS013</b> Room : B.1.03</p>	<p><b>Challenges and Lessons Learned: Implementing Changing Methodologies and Technologies in the 2020 Round of World Censuses</b> Organiser(s): <i>Arona Pistiner</i> Chair(s): <i>Arona Pistiner</i> <b>Future developments on the Canadian census of population</b> <i>Marc Hamel</i> <b>Preparing for the 2020 Census of the United States: What We Have Learned So Far</b> <i>Lisa Blumberman</i> <b>Tailored enumeration in the 2016 Australian Census - challenges and opportunities realised in a digital-first census</b> <i>Jo Runjajic</i> Discussant(s): <i>Caroline Rogers</i></p>
<p><b>IPS113</b> Room : B.0.01</p>	<p><b>Statistical Developments in Climate Science Research</b> Organiser(s): <i>Lelys Bravo De Guenni</i> Chair(s): <i>Alexandra Schmidt</i> <b>Clarifying goals, identifying limitations and quantifying the past</b> <i>Leonard Smith</i> <b>Making sense of multiple models</b> <i>Richard Chandler</i> <b>The risk of tsunamis from sub-sea landslides</b> <i>Peter Chanellor</i> Discussant(s): <i>Christopher K, Wikle</i></p>

<p><b>IPS116</b> Room : A.1.18</p>	<p><b>A Comparative Study of Statistical Inference from an Educational Point of View</b> Organiser(s): <i>Manfred Borovcnik</i> Chair(s): <i>Michael Schimek</i> <b>A 21st century approach towards statistical inference - Evaluating the effects of teaching randomization methods on students' conceptual understanding</b> <i>Robert Del Mas</i> <b>Informal inference - some thoughts to reconsider</b> <i>Manfred Borovcnik</i> <b>Urging a paradigm change: an introduction to BFF (Bayesian, frequentist and fiducial) inferences and how Bayesian and frequentist come together</b> <i>Min-Ge Xie</i> <b>Why and how to train introductory statistics students in Bayesian thinking: a decision oriented approach towards statistical inference</b> <i>Dalene Stangl</i> Discussant(s): <i>Jan Hannig</i></p>
<p><b>IPS121</b> Room : C.-1.02</p>	<p><b>Statistical Analysis of Neuroimaging and other Biomonitoring Data</b> Organiser(s): <i>John Aston</i> Chair(s): <i>David Degras</i> <b>Smooth principal component analysis over two-dimensional manifolds with an application to neuroimaging</b> <i>John Aston</i> <b>Statistical analysis of heart rate variability</b> <i>Michelle Liou</i> <b>Tensor regression and application in neuroimaging analysis</b> <i>Lexin Li</i> Discussant(s): <i>Genevera Allen</i></p>
<p><b>IPS134</b> Room : A.0.01</p>	<p><b>IASS President's Invited Lecture and Cochran-Hansen Prize Lecture</b> Organiser(s): <i>Steven Heeringa</i> Chair(s): <i>Steven Heeringa</i> <b>Next generation data: surveys in a transformed environment</b> <i>Colm O' Muircheartaigh</i> <b>Ranked set sampling approach for estimating response of developmental programs with linear impacts under successive phases</b> <i>Girish Chandra</i></p>

<p><b>IPS038</b> Room : A.1.16</p>	<p><b>Causal structural learning</b> Organiser(s): <i>Marloes Maathuis</i> Chair(s): <i>Philip Dawid</i> <b>Causal discovery and learning</b> <i>Kun Zhang</i> <b>Construction and discovery of causal macro variables</b> <i>Frederick Eberhardt</i> Discussant(s): <i>Ali Shojaie</i></p>
<p><b>IPS052</b> Room : B.0.02</p>	<p><b>Use of reporting systems and other administrative data in agricultural statistics</b> Organiser(s): <i>Carola Fabi, Naman Keita</i> Chair(s): <i>Carola Fabi</i> <b>Administrative reporting systems for agriculture in Asia and the Pacific</b> <i>Dalisay Maligalig</i> <b>Integration of statistical and administrative agricultural data from Namibia</b> <i>Emily Berg</i> <b>Strategies and methodologies for improving the quality and use of data from reporting systems in an integrated agricultural statistics system</b> <i>Agnes Ssekiboobo</i></p>
<p><b>IPS060</b> Room : A.-1.02</p>	<p><b>Data user in focus - statistics in use</b> Organiser(s): <i>Reija Helenius</i> Chair(s): <i>Reija Helenius</i> <b>Focus on users to increase the value of official statistics</b> <i>Elaine O'Mahoney</i> <b>Putting users at the centre: the European statistical system's approach in the DIGICOM project</b> <i>Emanuele Baldacci</i> <b>The customer knows it better? - The use of think tank and other customer research methods at Statistics Finland</b> <i>Hannele Orjala</i> Discussant(s): <i>Steve Macfeely</i></p>
<p><b>IPS070</b> Room : C.-1.01</p>	<p><b>Statistical Modelling and Risk Analysis</b> Organiser(s): <i>Teresa Oliveira</i> Chair(s): <i>Teresa Oliveira</i> <b>Adversarial risk analysis</b> <i>David Banks</i> <b>Design of experiments for dependency modelling</b> <i>Werner Muller</i> <b>Extreme value analysis and risk modeling</b> <i>M. Ivette Gomes</i> Discussant(s): <i>Christos Kitsos</i></p>

<p><b>STS009</b>  <b>Room : A. -</b>  <b>1.07</b></p>	<p><b>Urn Models</b>  Organiser(s): <i>Krishanu Maulik</i>  Chair(s): <i>Anindya Roy</i>  <b>Affine urn models</b>  <i>Hosam Mahmoud</i>  <b>Generalized pólya urn schemes with negative reinforcements</b>  <i>Antar Bandyopadhyay</i>  <b>Multi-drawing multi-colour urns by stochastic approximation.</b>  <i>Cecile Mailler</i>  <b>Strong and weak laws for urn models with random replacement matrices</b>  <i>Krishanu Maulik</i></p>
<p><b>STS016</b>  <b>Room : B.</b>  <b>1.05</b></p>	<p><b>Challenges and options of the collection of granular data on credit and credit risk</b>  Chair(s): <i>Jean-Marc Israël</i>  <b>Collecting Counterparty reference data for AnaCredit</b>  <i>Lukas Simhandl</i>  <b>Linking debt securities to the statistical business register</b>  <i>Ronald Jansen</i>  <b>Malaysia's experience in managing the credit registers</b>  <i>Zima Mazfahani Mazlan</i>  <b>Register of institutions and affiliates database (RIAD): modelling for flexibility</b>  <i>Michele Romanelli</i></p>
<p><b>STS722</b>  <b>Room : A.</b>  <b>1.17</b></p>	<p><b>Modern Statistical Methodologies for High-Dimensional Data Applications</b>  Organiser(s): <i>Eman Khorsheed</i>  Chair(s): <i>Eman Khorsheed</i>    <i>Jorge Sebastiao</i>  <b>A Tree-Structured Competing Risks Regression in Data Mining</b>  <i>Noor Ibrahim</i>  <b>Efficient inference in high dimensional genetic data</b>  <i>Fazil Baksh</i></p>

<p><b>STS053</b> Room : A. - 1.06</p>	<p><b>On functional and shape analysis</b> Organiser(s): <i>Anne-Françoise Yao, Chafik Samir</i> Chair(s): <i>Sophie Dabo-Niang</i> <b>Growth and form: a statistical framework for the cross-sectional geometric variability of object shapes and the functional dynamics</b> <i>Chafik Samir</i> <b>Kernel regression estimation for non stationary functional spatial process</b> <i>Anne-Françoise Yao</i> <b>Robust Functional Regression Analysis Using a Heavy-tailed Process</b> <i>Jian Qing Shi</i> <b>The Rao's distance between negative binomial distributions for Exploratory Analyses and Goodness-of-Fit Testing</b> <i>Claude Manté</i> Discussant(s): <i>Sophie Dabo-Niang</i></p>
<p><b>STS064</b> Room : A. - 1.09</p>	<p><b>Challenges and Solutions for Building Statistics Capacity in Developing Countries</b> Organiser(s): <i>Eric Vance</i> Chair(s): <i>Eric Vance</i> <b>Challenges in statistics in developing countries</b> <i>Demisew Gebru</i> <b>Fostering a collaborative approach to research through the University of Zimbabwe Laboratory for Interdisciplinary Statistical Analysis (UoZLISA)</b> <i>Lillian Siziba</i> <b>Strengthening a statistical channel/bridge among researchers and policy makers through statistical collaboration</b> <i>Muhammad Amin</i> <b>TBD</b> <i>Emanuel Msemo</i> <b>TBD</b> <i>Nelson Taruvinga</i> Discussant(s): <i>James Rosenberger</i></p>
<p><b>STS065</b> Room : A. 1. 19</p>	<p><b>Focussing on pillars which make Modernisation Strategies operational: some National Statistical Institutes experiences</b> Organiser(s): <i>Nadia Mignolli, Piero Falorsi</i> Chair(s): <i>Giorgio Alleva</i> <b>Making Modernisation at Istat operationa</b> <i>Nadia Mignolli</i> <b>Bringing Together Methods and Data in UK Statistics</b> <i>Peter Campbell Swier</i> <b>Operationalising of a business architecture: corporate services and process-driven governance of the hungarian central statistical office</b> <i>Csaba ABry</i> <b>TBD</b> <i>Mark Van Der Loo</i></p>

<p><b>STS078</b> Room : A. - 1.05</p>	<p><b>Bayesian inference for Markov processes: challenges and solutions</b> Organiser(s): <i>Lam Ho, Trevor Shaddox</i> Chair(s): <i>Ho Lam</i> <b>Adaptive, delayed-acceptance MCMC for stochastic kinetic models</b> <i>Andrew Golightly</i> <b>Direct likelihood-based inference for discretely observed stochastic compartmental models of infectious disease</b> <i>Lam Ho</i> <b>Tackling Bayesian inference in massive healthcare models with parallelization</b> <i>Trevor Shaddox</i> Discussant(s): <i>Marc Suchard</i></p>
<p><b>STS089</b> Room : B. 1.04</p>	<p><b>Understanding informality, poverty and inequality nexus in africa</b> Organiser(s): <i>Mustapha Ziroili</i> Chair(s): <i>Said Hanchane</i> <b>African women in informal employment: What do we know and what can we do to know more?</b> <i>Isis Gaddis</i> <b>Employment, informal economy and poverty in Africa: data challenges</b> <i>Joann Vanek</i> <b>Labor market segmentation and inequalities in the context of informal employment nexus in developing countries</b> <i>Mustapha Ziroili</i> Discussant(s): <i>Steven Kapsos</i></p>
<p><b>OR-B15</b> Room : C. 0.05</p>	<p><b>Methods and Theory 15</b> <b>On the analysis of two-phase designs in cluster--correlated settings</b> <i>Claudia Rivera</i> <b>A Bayesian multivariate structured geoaddivitive distributional regression model in breast cancer screening data</b> <i>Bruno De Sousa</i> <b>Constrained Principal Component Analysis for Nonmetric Data</b> <i>Yuki Yamagishi</i> <b>Fitting equations to data using the perfect correlation relationship</b> <i>Chris Tofallis</i> <b>Maximum Likelihood Parameterization for Conditional Probabilities</b> <i>Yves Thibaudeau</i></p>

<p>PP-B16 Room : A. 0.21</p>	<p><b>Methods and Theory 16</b>  <b>A Bernstein estimator of the multivariate distribution function under right censoring</b>  <i>Khaled Dib</i>  <b>A New Method of Constructing a Distance Function in the Nearest-Neighbor Imputation Method: Imputing the turnover of restaurants utilizing the ?Restaurant Web Data?</b>  <i>Tamaki Miyauchi</i>  <b>Application of the Exponentiated Log-logistic Weibull Distribution to Censored data</b>  <i>Fagbamigbe Adeniyi</i>  <b>Asymptotic theory of the Concordance Correlation coefficient CCC</b>  <i>Mohamed Cheikh Haidara</i>  <b>Bayes Estimation and Prediction of Biased Sample Selected From a Finite Population</b>  <i>Abdulhakeem Eideh</i>  <b>Causal inference in observational studies: propensity score based methods in case-control studies with missing variable information.</b>  <i>Halima Twabi</i>  <b>Estimation of multivariate 3rd moment for high-dimensional data and its application for testing multivariate normality</b>  <i>Takayuki Yamada</i>  <b>Homogenization and Large Deviation Principle with Applications to Reflecting Diffusion processes</b>  <i>Alioune Coulibaly</i>  <b>Impact of Proxy Responses on Tobacco Smoking in Thailand Tobacco Surveys</b>  <i>Jason Hsia</i>  <b>New proposed error innovations under asymmetric garch models with application</b>  <i>Oyebimpe Adeniji</i>  <b>On the parameters estimation of the new Seasonal FISSAR model and simulations</b>  <i>Papa Ousmane Cisse</i>  <b>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</b>  <i>Olugbemi Olujimi</i>  <b>Research on the Definition and Statistical Classification Criteria of Beijing's Cutting-edge Technology Industry</b>  <i>Chong Zhou</i>  <b>Risk profile concept to build scorecard models</b>  <i>Mehdi Bazzi</i>  <b>Statistics and evaluation in education: Lessons from the Moroccan case</b>  <i>Yassine Karim</i>  <b>Stratified Propensity Score Matching ? quasi experimental</b></p>
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**designs dealing with lack of dependent variable**

*Lukasz Widla-Domaradzki*

**Study on Statistical Method of 'Internet Plus'**

*Guiping HU*

**The exact probability law for the approximated similarity from the Minhashing method**

*Soumaila Dembele*

**Time evolution of copulas**

*Ledys Salazar Gomez*

<p><b>IPS105</b> Room : A.-1.08</p>	<p><b>Stein's Method</b> Organiser(s): <i>Gesine Reinert</i> Chair(s): <i>Mark Podolskij</i> <b>Itô's formula in distribution for the one-dimensional fractional Brownian motion</b> <i>Ivan Nourdin</i> <b>Kolmogorov bound for particle configuration in quantum mechanics</b> <i>L.H.Y. Chen</i> <b>Stein's method and random matrices</b> <i>Elizabeth Meckes</i> Discussant(s): <i>Gesine Reinert</i></p>
<p><b>IPS108</b> Room : B.0.02</p>	<p><b>Keeping Official Statistics Relevant: Adaptive Designs to Reduce Bias and Improve Timeliness</b> Organiser(s): <i>David Marker</i> Chair(s): <i>Peter Lynn</i> <b>A practical indicator for use in targeted follow up</b> <i>Sybille Mckeown</i> <b>Adaptive survey designs accounting for uncertainty and gradual change in survey design parameters</b> <i>Barry Schouten</i> <b>Using preliminary estimates, paradata, and targeted follow-up to produce timely estimates</b> <i>David Marker</i> Discussant(s): <i>Natalie Shlomo</i></p>
<p><b>IPS111</b> Room : C.-1.02</p>	<p><b>Robust Statistical Methods in Signal and Image Processing</b> Organiser(s): <i>Abdelhak Zoubir, Mounir Ghogho</i> Chair(s): <i>Mounir Ghogho</i> <b>Asymptotic robustness of Kelly's GLRT and Adaptive Matched Filter detector under model misspecification</b> <i>Stefano Fortunati</i> <b>Minimax robust sequential hypothesis testing under density band uncertainties</b> <i>Abdelhak Zoubir</i> <b>On the robustness of a self-tuned sequential Monte Carlo method</b> <i>Joaquin Miguez</i> <b>Principal subspace analysis: robust recovery</b> <i>Hamid Krim</i></p>

<p><b>IPS017</b> Room : B.0.01</p>	<p><b>How to Geo-Enable Official Statistics? - the global Statistical Geospatial Framework.</b> Organiser(s): <i>Ekkehard Petri</i> Chair(s): <i>Susanne Schnorr-Backer</i> <b>A strategy for integrating geo-spatial information and statistics for Africa</b> <i>Sharthi Laldaparsad</i> <b>Integration of statistical and geospatial information. More than 30 years of experience georeferencing information in Mexico</b> <i>Rolando Ocampo</i> <b>The statistical geospatial framework for the European statistical system - ESS-SGF</b> <i>Marie Haldorson</i> <b>UN Geospatial Statistical Framework in Practice - the Australian experience</b> <i>Michael Smedes</i></p>
<p><b>IPS117</b> Room : B.1.03</p>	<p><b>Session on non-Euclidean statistics</b> Organiser(s): <i>Stephan Huckemann</i> Chair(s): <i>Stephan Huckemann</i> <b>Backward nested descriptors: asymptotics and applications to biostructure</b> <i>Benjamin Eltzner</i> <b>Geometry and statistics in phylogenetic tree-space</b> <i>Tom Nye</i> <b>Non-asymptotic confidence sets for Frechet means on the circle</b> <i>Thomas Hotz</i> Discussant(s): <i>Steve Marron</i></p>
<p><b>IPS140</b> Room : A.1.16</p>	<p><b>Accounting for Statistical Dependence in Socio-Economic Data</b> Organiser(s): <i>Noel Cressie</i> Chair(s): <i>Refik Soyer</i> <b>Quantifying and mitigating spatial aggregation error</b> <i>Christopher Wikle</i> <b>Small area estimation for high-dimensional multivariate spatio-temporal count data</b> <i>Scott Holan</i> <b>Survey inference using geocoded data</b> <i>Ray Chambers</i></p>

<p><b>IPS062</b> Room : A.-1.02</p>	<p><b>Novel approaches for analyzing high-dimensional time series</b> Organiser(s): <i>Ali Shojaie</i> Chair(s): <i>George Michailidis</i> <b>Consistent sequential learning algorithms for highly dependent time series</b> <i>Azadeh Khaleghi</i> <b>Network modeling of high-dimensional time series in the presence of factors</b> <i>Basu Sumanta</i> <b>Nonparametric estimation of high-dimensional ordinary differential equations</b> <i>Ali Shojaie</i> Discussant(s): <i>Aston John</i></p>
<p><b>IPS077</b> Room : A.0.01</p>	<p><b>Methods for Precision Medicine using Complex Data Modalities</b> Organiser(s): <i>Thaddeus Tarpey</i> Chair(s): <i>Lang Wu</i> <b>Functional and imaging data in precision medicine</b> <i>R. Todd Ogden</i> <b>Generated effect modifiers in linear and non-parametric models</b> <i>Eva Petkova</i> <b>Predicting longitudinal outcome trajectories using complex data modalities</b> <i>Thaddeus Tarpey</i></p>
<p><b>IPS079</b> Room : C.-1.01</p>	<p><b>Global Value Chain measurement and its importance for developing countries</b> Organiser(s): <i>Houssain Ouljour, Ronald Jansen</i> Chair(s): <i>Ronald Jansen</i> <b>Costa Rica in medical devices and electronics GVC</b> <i>Henry Vargas-Campos</i> <b>Measurement of China's participation in the apparel and electronics global value chains</b> <i>Stacey Frederick</i> <b>Measurement of Morocco's participation in the automotive global value chain 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</b> <i>Houssain Ouljour</i> <b>Measurement of Vietnam's participation in the apparel and electronics global value chains</b> <i>Thuy Le Thi Minh</i> Discussant(s): <i>Veijo-Ismo Ritola</i></p>

<p><b>IPS096</b> Room : A.1.18</p>	<p><b>The Role of Surveys in a 21st Century Census</b> Organiser(s): <i>James Brown</i> Chair(s): <i>Siu-Ming Tam</i> <b>One-number census using coherent calibration with small area constraints</b> <i>Ralf Münnich</i> <b>The importance of surveys in modern censuses</b> <i>Peter Jones</i> <b>The role of surveys in a 21st century census: an overview of approaches</b> <i>James Brown</i> Discussant(s): <i>Jean-Michel Durr</i></p>
<p><b>STS010</b> Room : A. - 1.07</p>	<p><b>Consistency of National Accounts and Balance of Payments</b> Organiser(s): <i>Silke Stapel-Weber</i> Chair(s): <i>Jens Mehrhoff</i> <b>Consistency between national accounts and balance of payments statistics : the status of consistency in the nonfinancial accounts</b> <i>Olaf Nowak</i> <b>Financial stability analysis: what are the Data Needs?</b> <i>Robert Heath</i> <b>Transatlantic trade services: investigating bilateral asymmetries in EU-US trade statistics</b> <i>Kristy Howell</i></p>
<p><b>STS015</b> Room : A. - 1.06</p>	<p><b>Knowledge-based Statistical Methods in Innovative Data Science</b> Organiser(s): <i>Fionn Murtagh</i> Chair(s): <i>Fionn Murtagh</i> <b>TBD</b> <i>Mohsen Farid</i> <b>TBD</b> <i>Mireille Summa</i> <b>TBD</b> <i>Rosanna Verde</i> <b>The data mining approach as the starting point for Mental Health policy-making in low and middle income countries at World Health Organization</b> <i>Karina Gibert</i> <b>Ultrametric regression, tree branch matching, matching hierarchical structures in linear time</b> <i>Fionn Murtagh</i></p>

<p><b>STS019</b> Room : A. - 1.05</p>	<p><b>Issues in spatial and temporal data modeling with applications in the environment and geosciences</b> Organiser(s): <i>Maria Silva</i> <b>Modeling autocorrelated data under Preferential Sampling</b> <i>Maria Silva</i> <b>On methodologies for evaluating the exploitation status of the species <i>Raja undulata</i></b> <i>Isabel Natario</i> <b>Spatial and Temporal Variability of Monthly Rainfall in the Blue Nile Basin</b> <i>Yasmine Abdelfattah</i> Discussant(s): <i>Silva Giovani</i></p>
<p><b>STS038</b> Room : A. - 1.09</p>	<p><b>The Statistical Business Registers</b> Organiser(s): <i>Saleh Alkafri</i> Chair(s): <i>Jan Robert Suesser</i> <b>Dissemination and outputs from the statistical business registers firm dynamics and job creation in tunisia</b> <i>Hassen Arouri</i> <b>Methods to overcome low coverage of statistical business register</b> <i>Mennatallah Abouhasswa</i> <b>Statistical business register: new approach, new challenges</b> <i>Abedelkader Choqiri</i> <b>Using households surveys to maintain the statistical business register</b> <i>Saleh Alkafri</i> Discussant(s): <i>Pierrette Schuhl</i></p>
<p><b>STS054</b> Room : A. 1.17</p>	<p><b>Recent Advances in Analysis and Modeling of Time Series Data with High Complexity and Dimensionality</b> Organiser(s): <i>Ta-Hsin Li</i> Chair(s): <i>Balgobin Nandram</i> <b>Elastic band transform and its applications</b> <i>Hee-Seok Oh</i> <b>Estimation of logistic Smooth transition autoregressive models using bayesian shrinkage methods</b> <i>Ioannis Kamarianakis</i> <b>Forecasting time series of counts using Poisson Autoregressive Models: a case study</b> <i>Ta-Hsin Li</i> <b>Spectral causality: exploring Lead-Lag dependence structure between oscillatory activities in multivariate signals</b> <i>Hernando Ombao</i></p>

<p><b>STS058</b>  <b>Room : A. 1.</b>  <b>19</b></p>	<p><b>Identification and Control of Response and Non-response Errors in Surveys</b>  Organiser(s): <i>Zahra Rezaei Ghahroodi</i>  Chair(s): <i>Farhad Mehran</i>  <b>Are you thinking what i'm meaning: experiences from cognitive interviews in multi-country survey tests</b>  <i>Elisa Benes</i>  <b>Non-response adjustment and estimating response errors using MLCA in Iranian Labor Force Survey</b>  <i>Rezaei Ghahroodi Zahra</i>  <b>Understanding and addressing refusals: lessons from modern slavery surveys at the national and state level in India</b>  <i>Jacqui Joudo Larsen</i></p>
<p><b>STS061</b>  <b>Room : B.</b>  <b>1.04</b></p>	<p><b>Recent advances in data fusion methodology</b>  Organiser(s): <i>Hans Kiesl</i>  Chair(s): <i>Ralf Münnich</i>  <b>Estimation within the new integrated system of household surveys in Germany</b>  <i>Saeideh Kamgar</i>  <b>Multiple imputation for addressing uncertainty in statistical matching</b>  <i>Hans Kiesl</i>  <b>Statistical Matching as a Supplement to Record Linkage - A valuable method to tackle non-consent bias?</b>  <i>Jonathan Geßendorfer</i></p>
<p><b>STS074</b>  <b>Room : C. -</b>  <b>1.03</b></p>	<p><b>The Value and costs of national and international statistics</b>  Organiser(s): <i>Van De Dven Van De Ven</i>  <b>Calculating the costs of products and services of the european statistical system</b>  <i>Pieter Everaers</i>  <b>Cost of industrial surveys in developing countries - UNIDO's experience</b>  <i>Shyam Upadhyaya</i>  <b>Measuring the value of data</b>  <i>Amparo Ballivian</i>  <b>TBD</b>  <i>Pietro Gennari</i></p>

<p><b>OR-A09</b> Room : A. - 1.11</p>	<p><b>Applications 9</b>  <b>Aid tool of the elaboration of the national accounts</b>  <i>Randriambolamanitra Samuel</i>  <b>Dimensionality reduction and class prediction algorithm for cancer class Big Data</b>  <i>Laila Ait hassou</i>  <b>Hodrick-Prescott Filtering by Segments with Controlled Smoothness and Forecasting: The case of remittances to Mexico</b>  <i>Victor Guerrero</i>  <b>Measuring housework participation: the gap between Men and women in Morocco.</b>  <i>Asmae Mhmmoudi</i>  <b>Primary deficit and public debt ratio</b>  <i>Ahmed Oulad El Fakir</i>  <b>Research on Gender Equality between Urban and Rural Areas in China: From the Viewpoint of the Household Division of Labor</b>  <i>Fengdan Shi</i></p>
<p><b>OR-A13</b> Room : A.-1.13</p>	<p><b>Applications 13</b>  <b>Measuring Determinants of health outcome using Ordinary Least Square vs Endogenous regression models</b>  <i>Ngianga li Kandala</i>  <b>Neither in Education, nor Employment or Training: Characteristics and Causes of NEET-affected Youth in Morocco</b>  <i>Salima Mansouri</i>  <b>On a Spatial Concordance Correlation Coefficient</b>  <i>Ronny Vallejos</i>  <b>Statistical decompositions of the increase in TIMSS Scores in Morocco between 2011 and 2015</b>  <i>Ayoub N'Haji</i>  <b>Ulsan Baby Boomer Statistics Development and Regional Policy Monitoring</b>  <i>Park Younyoung</i></p>
<p><b>OR-B21</b> Room : A.-1.14</p>	<p><b>Methods and Theory 21</b>  <b>Exponential tilting in approximate posterior computation</b>  <i>Samer Kharroubi</i>  <b>Multiscale local polynomial transforms,Bandwidth selection and Density estimation.</b>  <i>Mohamed Amghar</i>  <b>Nonparametric estimates of the regression function with doubly censored data</b>  <i>Thouria Elhadj Ali</i>  <b>Nonparametric Sequential Estimation of Reliability and Hazard Rate</b>  <i>Karima LAGHA</i></p>



<p><b>IPS123</b> Room : A.0.01</p>	<p><b>IBS Session: Statistics in the Biosciences</b> Organiser(s): <i>Elizabeth Thompson</i> Chair(s): <i>Elizabeth Thompson</i> <b>Monitoring the biodiversity of regions: design, measurement and modelling advances motivated by convention for biological diversity targets</b> <i>Stephen Buckland</i> <b>Semi-parametric mixed beta regression models for disease severity in plants: Modelling black Sigatoka in banana crops</b> <i>Raul Macchiavelli</i> <b>Statistical inference in massive Whole-Genome genetic and genomic studies</b> <i>Xihong Lin</i></p>
<p><b>IPS149</b> Room : A.1.16</p>	<p><b>Session of the Statistical Journal of the IAOS (SJIAOS) - Survey Fabrication: Detection, Prevention and Repair</b> Organiser(s): <i>Fritz Scheuren, Kirsten West</i> Chair(s): <i>Kirsten West</i> <b>A systems thinking approach to addressing survey data fabrication</b> <i>Steve Koczela</i> <b>AAPOR/ASA data falsification task force: progress report</b> <i>Jill Dematteis</i> <b>Evidence of data fabrication in many public opinion surveys conducted in Iraq between 2005 and 2009</b> <i>Michael Spagat</i> Discussant(s): <i>Fritz Scheuren</i></p>
<p><b>IPS153</b> Room : A.-1.02</p>	<p><b>Session of the Statistics Journal of IASE</b> Organiser(s): <i>Manfred Borovcnik</i> Chair(s): <i>Delia North</i> <b>To SERJ or not to SERJ - that is the question (with apologies to Shakespeare)</b> <i>Jim Ridgway</i> Discussant(s): <i>Ayşe Bilgin, Manfred Borovcnik</i></p>
<p><b>IPS159</b> Room : A.1.18</p>	<p><b>Statistical Models Meet New Technology: merging the old and the new</b> Organiser(s): <i>Fabrizio Ruggeri</i> Chair(s): <i>Fabrizio Ruggeri</i> <b>Statistical models meet new technology: merging the old and the new</b> <i>Kerrie Mengersen</i></p>
<p><b>IPS161</b> Room : C.-1.02</p>	<p><b>ISI Mahalanobis Award Lecture</b> Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Jon Rao</i> <b>Research in experimental design in India: achievements and emerging challenges</b> <i>Rahul Mukerjee</i></p>

<p><b>PO-D02</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Statistical Education 02</b>  <b>Cluster Analysis in the context of Educational Data</b>  <i>Ali Alzahrani</i>  <b>Development of key performance indicators and impact assessment for R&amp;D sector in Palestine</b>  <i>Rabeh Morrar</i>  <b>Guided-inquiry learning for an undergraduate behavioural science statistics course</b>  <i>Matthew Zagumny</i>  <b>Impacts of R&amp;D Inputs and Restructuring on the Output of Patents and Papers in Chinese Research Institutes</b>  <i>Yunjie Sun</i>  <b>Out-of-School Children in Morocco, Stylized facts, and determinants</b>  <i>Mohamed Yassine Abahamid</i>  <b>Risk Factors for Education in Germany</b>  <i>Holger Leerhoff</i>  <b>Statistical awareness to the young people across less developed and developing countries</b>  <i>Ombeni Kaluse</i>  <b>The attitude of students towards choosing statistics as course of study in nigeria.</b>  <i>Chinonye Obichili</i></p>
<p><b>PO-H03</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Environmetrics 03</b>  <b>Comparison of different regularized or shrinkage regression methods to predict daily tropospheric ozone concentration in the Grand Casablanca area</b>  <i>Halima Oufdou</i>  <b>Estimates of the distributional welfare effects of agricultural technology adoption: evidence on improved maize in Togo</b>  <i>Banawe Anissa</i>  <b>Extreme value modeling and probabilistic downscaling from climate model for projections of temperature extremes in Taiwan</b>  <i>Chu-Chih Chen</i>  <b>What measures to quantify and differentiate climate change from climate variability?</b>  <i>Amal Mansouri</i></p>

<p>PO-B18 Room : A. 0.20</p>	<p><b>Methods and Theory 18</b> <b>A Proposal of Confidence Bands for the Estimation of Expected Discounted Warranty Costs for Coherent Systems under Minimal Repair</b> <i>Carlos-Mario Lopera-Gomez</i> <b>Active Learning Procedure for Penalized Logistic Regression via Sequential Experimental Design</b> <i>Eunsik Park</i> <b>Comparison of different mixture design for the complex phenomena modeling</b> <i>Charles Gomes</i> <b>Estimation and Implementation of Measurement Invariance with dichotomous items</b> <i>Luis Rojas</i> <b>Evaluation of repeatability and reproducibility of instrumental evaluation methods</b> <i>Hicham Noçairi</i> <b>How to test interaction in block designs based on a linear model</b> <i>Karl Moder</i> <b>Joint Asymptotic Theory of Gini and Growth Indices</b> <i>Pape Djiby Mergane</i> <b>Latent class models approach to the rater agreement in ordered square contingency tables</b> <i>Ayfer Ezgi Yilmaz</i> <b>Mixed Power Normal Model</b> <i>Andressa Siroky</i> <b>Modeling interaction with liquid association</b> <i>Ker-Chau Li</i> <b>On change points analysis based on resampling methods</b> <i>Asanao Shimokawa</i> <b>On Predictive Density Estimation for a Constrained Gamma Model under Kullback-Leibler Loss</b> <i>Aziz Lmoudden</i> <b>Quasi-Maximum Likelihood Estimators For Functional Spatial Autoregressive Models</b> <i>Zied Gharbi</i> <b>Stacking Prediction for a Quantitative Outcome</b> <i>Hicham Noçairi</i></p>
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<p><b>IPS102</b> Room : C.-1.01</p>	<p><b>Disability Statistics and Measurement in the Context of the SDGs and the 2020 World Population and Housing Census Programme</b> Organiser(s): <i>Margaret Mbogoni</i> Chair(s): <i>Margaret Mbogoni</i> <b>Disability measure through the census</b> <i>Aicha Mourchid</i> <b>Measurement of disability in the context of the SDGs: findings from 2014 population and housing census, Myanmar</b> <i>Khaing Khaing Soe</i> <b>Measuring disability in Mexico through the census</b> <i>Carole Schmitz</i> <b>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</b> <i>Pamela Nabukhonzo</i></p>
<p><b>IPS104</b> Room : B.1.03</p>	<p><b>Sexual Harrassment and Gender-Based Violence in Selected Nigerian Universities</b> Organiser(s): <i>Adedayo Adepaju</i> <b>Promoting gender equity in university education: a statistical report from obafemi awolowo university, nigeria.</b> <i>Olufunmilayo Soetan</i> <b>TBD</b> <i>Olusola Makinde</i> <b>TBD</b> <i>Olabimpe Aladeniyi</i></p>
<p><b>IPS112</b> Room : A.0.01</p>	<p><b>Young researchers' session on Functional Data Analysis</b> Organiser(s): <i>Kristina Lurz, Nihan Acar-Denizli</i> Chair(s): <i>Kristina Lurz</i> <b>Modeling motor learning using heteroskedastic functional principal components analysis</b> <i>Jeff Goldsmith</i> <b>Nonparametric variable selection and screening with a large number of functional predictors</b> <i>Jan Gertheiss</i> <b>Recursive variable selection for functional data based on maxima hunting</b> <i>José Luis Torrecilla</i> <b>The evaluation of the performance of functional linear regression models on a remote sensing application</b> <i>Nihan Acar-Denizli</i> Discussant(s): <i>Pedro Delicado</i></p>

<p><b>IPS018</b> Room : A.1.16</p>	<p><b>Mission completed? Delivery and deployment of modernisation results in official statistics</b> Organiser(s): <i>Martina Hahn</i> Chair(s): <i>Mariana Kotzeva</i> <b>Modernisation program in Istat: main achievements looking forward to a continuous evolution</b> <i>Giorgio Alleva</i> <b>The Australian perspective: The good, the bad and the ugly of the modernisation journey</b> <i>Michael Smedes</i> <b>The new IMF data standards and the ongoing paradigm shift for official statistics</b> <i>Louis Marc Ducharme</i> <b>Using Enterprise Architecture, Digital transformation and an Agile approach in the transformation of statistical production</b> <i>Jan Jones</i> Discussant(s): <i>Padraig Dalton</i></p>
<p><b>IPS160</b> Room : A.1.18</p>	<p><b>Household panel surveys: Morocco's experience in monitoring and evaluating human development</b> Organiser(s): <i>Rachid Benmokhtar Benabdellah</i> Chair(s): <i>Rachid Benmokhtar Benabdellah</i> <b>Household panel survey in Morocco: Methodological overview</b> <i>Abdelkader Teto</i> <b>Household Panel Survey in Morocco: Methodological overview</b> <i>Kawtar Zeroual</i> <b>Household panel survey of ONDH and impact evaluation of human development programs in Morocco</b> <i>Abdelkhalek Touhami</i> <b>Sample design of the Moroccan household panel</b> <i>Pierre Lavallée</i> <b>Uses of panel data: the Swiss case</b> <i>Robin Tillmann</i></p>
<p><b>IPS064</b> Room : B.0.02</p>	<p><b>Measuring food access, diet and nutritional status in the context of the SDGs</b> Organiser(s): <i>Carlo Cafiero</i> Chair(s): <i>Jose Rosero Moncayo</i> <b>Measuring food access in the context of sustainable development goal (SDG) 2</b> <i>Sara Viviani</i> <b>Minimum dietary diversity for women of reproductive age: methodological development of the indicator and current challenges</b> <i>Yves Martin-Prével</i> Discussant(s): <i>Dramane Bako</i></p>

<p><b>IPS085</b> Room : B.0.01</p>	<p><b>UN Sustainable Development Goals: The Implications for Statistics at a Sub-National Level</b> Organiser(s): <i>Jagdev Virdee</i> Chair(s): <i>Jagdev Virdee</i> <b>A comparison of South Africa's National Development Plan 2030 and the Sustainable Development Goals</b> <i>Pali Lehohla</i> <b>CBS - Statistics Netherlands Urban Data Centers: A Dutch innovation servicing local data needs</b> <i>Johan Van Der Valk</i> <b>How to provide sub-regional statistical information for sustainable development - from the point of view of a German municipality</b> <i>Klaus Trutzel</i> <b>Sustainable Development Goals: implications for statistics at a sub-national level - a UK perspective</b> <i>Rourke Emma</i> <b>US Statistics and the UN Sustainable Development Goals: The gaps in US national statistics for cities and regions</b> <i>Wendy Thomas</i></p>
<p><b>IPS086</b> Room : C.-1.02</p>	<p><b>How Statistical Collaboration Laboratories Enhance Statistical Education</b> Organiser(s): <i>Eric Vance</i> Chair(s): <i>Zeytu Gashaw</i> <b>Educational impacts of the laboratory of applied statistics (LEA/UFRN) in Brazil</b> <i>Carla Vivacqua</i> <b>Progress and impact in teaching and learning statistics in Nigeria through LISA 2020</b> <i>Olawale Awe</i> <b>The Statistical Collaboration has Impacts on Statistics Education: Experience from the LISA like Program in Ethiopia</b> <i>Demisew Gebru</i> <b>Training statisticians and data scientists to become effective interdisciplinary collaborators</b> <i>Eric Vance</i> Discussant(s): <i>James Rosenberger</i></p>

<p><b>IPS098</b> Room : A.-1.02</p>	<p><b>Teaching of economic statistics: past, present, future</b> Organiser(s): <i>Alexey Ponomarenko , Ruslan Motoryn</i> Chair(s): <i>Alexey Ponomarenko</i> <b>Applying of electronic geostatistical resources in teaching of economic statistics</b> <i>Pavel Smelov</i> <b>Teaching economic statistics using JMP</b> <i>Volker Kraft</i> <b>Teaching of economic statistics in Ukraine: past and present</b> <i>Ruslan Motoryn</i> <b>Use of projects for teaching social concepts and economical statistics</b> <i>Theodore Chatzipantelis</i> Discussant(s): <i>Irina Eliseeva</i></p>
<p><b>STS045</b> Room : A. 1. 19</p>	<p><b>Economic and Productivity Growth: Convergence, Slowdown, and Explanations</b> Organiser(s): <i>Peter Zadrozny, Sun Ling Wang</i> Chair(s): <i>Marca Weinberg</i> <b>An econometric method for decomposing total-factor productivity into individual-factor productivities</b> <i>Peter Zadrozny</i> <b>Economic growth, convergence and world food demand and supply</b> <i>Will Martin</i> <b>GDP per capita and TFP in advanced countries: A long-term perspective over the past and the future</b> <i>Gilbert Cette</i> <b>Is productivity growth slowing in China and the U.S. farm sectors?</b> <i>Sun Ling Wang</i> Discussant(s): <i>Baoline Cheng</i></p>
<p><b>STS046</b> Room : A. - 1.05</p>	<p><b>Age and Gender-Specific Poverty - addressing the statistical challenge embedded in Goal 1 of the Sustainable Development Agenda</b> Organiser(s): <i>Gaspar Fajth</i> Chair(s): <i>Gaspar Fajth</i> <b>Individuals or households as units of measurement in multidimensional poverty studies: a policy oriented assessment</b> <i>Chris De Neubourg</i> <b>Multi-dimensional Poverty Indices for Children and Household Surveys: Lessons and ways forward</b> <i>Martin C. Evans</i> <b>Talent Opportunity Deprivation: Monitoring and Addressing Gaps in Early Brain Development</b> <i>Rodica Cnoblech</i> <b>The child multidimensional poverty index (C-MPI)</b> <i>Sabina Alkire</i> Discussant(s): <i>Jose Cuesta, Milorad Kovacevic</i></p>

<p><b>STS069</b>  <b>Room : A.</b>  <b>1.17</b></p>	<p><b>Statistical Data and Metadata eXchange (SDMX), a global standard for quality statistics.</b>  Organiser(s): <i>Alessandro Bonara</i>  <b>Global data structure definitions: providing a standard reporting framework and governance model</b>  <i>Peter Van Der Ven</i>  <b>SDMX, a key standard for central banks statistics</b>  <i>Bruno Tissot</i>  <b>Statistical data and metadata eXchange (SDMX): a global standard for quality statistics</b>  <i>Jimmy Mchugh</i>  <b>The Africa Information Highway, the role of SDMX in modernizing data reporting in Africa</b>  <i>Rafik Mahjoubi</i>  <b>The Role of SDMX in Official Statistics - A European Central Bank Perspective</b>  <i>Alessandro Bonara</i></p>
<p><b>STS070</b>  <b>Room : B.</b>  <b>1.04</b></p>	<p><b>The role of the Regional Statistical Training Centers (RSTCs) in building a statistical capacity and literacy: A panel Discussion</b>  Organiser(s): <i>Irena Krizman</i>  Chair(s): <i>Irena Krizman</i>  <b>TBD</b>  <i>Albina Chuwa</i>  <b>The establishment of a global network of institutions for statistical training</b>  <i>Francesca Perucci</i>  <b>The opportunities and urgency to coordinate global statistical training and capacity building</b>  <i>Pieter Everaers</i></p>



<p><b>OR-G03</b> Room : A.-1.13</p>	<p><b>Survey Statistics 03</b>  <b>A Quasi-Likelihood Tree for Longitudinal Data</b>  <i>Saad-Ellah Berhili</i>  <b>AGRIcultural Integrated Survey (AGRIS) Rationale and methodology: outline</b>  <i>Neli Georgieva</i>  <b>Functional Discriminant Analysis for Multivariate Longitudinal Data</b>  <i>Sugnet Lubbe</i>  <b>Methods of analysing complex sample survey data: Importance of taking sample design into account</b>  <i>Thanyani Maremba</i>  <b>Optimization and pricing of reinsurance treaties</b>  <i>Sanaa Benzaria</i>  <b>Small domain population estimation based on an administrative list subject to under and over-coverage</b>  <i>Patrick Graham</i>  <b>Two Stage Adaptive Cluster Sampling based on Ordered Statistics</b>  <i>Girish Chandra</i></p>
<p><b>OR-F05</b> Room : A. - 1.11</p>	<p><b>Official Statistics 5</b>  <b>A Review of Child Nutrition Across different Region in Egypt - from 1988 to 2014: The Health Inequalities Perspective</b>  <i>Embarika Abouellail</i>  <b>Measuring Sustainable Well-being Dimensions Using Multiple Correspondence Analysis</b>  <i>Jhoner Perdomo</i>  <b>Palestinian Central Bureau of Statistics (PCBS) experiment in Matching Techniques and Administrative Data Records Linkage</b>  <i>Haitham Zeidan</i>  <b>The impact of the Code of Practice on quality of statistics: Experience of Azerbaijan</b>  <i>Yusif Yusifov</i>  <b>The integration of ICP and CPI Feasibility in practice</b>  <i>Mohammed El Maliki</i>  <b>Weighting and analysis of non-proxy subjective well-being responses in the Survey on Income and Living Conditions</b>  <i>Salah Merad</i></p>

<p>OR-G06 Room : A.-1.14</p>	<p><b>Survey Statistics 6</b> <b>Bayesian models for nonresponse two-phase sampling</b> <i>Nanhua Zhang</i> <b>Diagnosis, Symptoms: A Moroccan statistical study based on online survey</b> <i>Taoufiq Fechtali</i> <b>Education Inequality and Development :New Evidence from Semiparametric Panel Data, 1955-2010</b> <i>Wail Benaabdelaali</i> <b>Occupational dissimilarity of gender in the formal labor market in the state of Rio de Janeiro - An analysis based on data from RAIS and PNAD (2002/2004 and 2011/2013)</b> <i>Andre Felipe Neves</i> <b>Use of Small area estimation for rare crops data in agricultural statistics: case of Burkina Faso and Brazil</b> <i>Bako Dramane</i> <b>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</b> <i>Eman Bnymfarej</i></p>
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<p><b>IPS106</b> Room : C.-1.02</p>	<p><b>State of the art and advances in modern empirical process theory in welfare analysis</b> Organiser(s): <i>Gane Samb Lo</i> Chair(s): <i>Aboubakary Diakhaby</i> <b>A comparison of parametric and semi-parametric models for microarray data analysis</b> <i>Bernard Omolo</i> <b>Functional Empirical Process and Welfare Analysis</b> <i>Gane Samb Lo</i> <b>Records, inter-record times, number of records and Poisson process</b> <i>Mohammad Ahsanullah</i> Discussant(s): <i>Bidounga Rufin, Cheikh Tidiane Seck, Kpanzou Tchilabalo</i></p>
<p><b>IPS014</b> Room : A.-1.08</p>	<p><b>Recent Developments in Random Graphs</b> Organiser(s): <i>Antar Bandyopadhyay</i> Chair(s): <i>Krishanu Maulik</i> <b>A nonamenable "factor" of a euclidean space</b> <i>Adam Timar</i> <b>De-preferential attachment random graphs</b> <i>Antar Bandyopadhyay</i> <b>Sparse high-dimensional regression with binary coefficients</b> <i>David Gamarnik</i> Discussant(s): <i>Gesine Reinert</i></p>
<p><b>IPS114</b> Room : B.0.02</p>	<p><b>Nonparametric methods: Theory and applications</b> Organiser(s): <i>Taoufik Bouezmarni</i> Chair(s): <i>Taoufik Bouezmarni</i> <b>Conditional copulas: inference for no covariates effect</b> <i>Irène Gijbels</i> <b>On smooth density estimation for circular data</b> <i>Yogendra Chaubey</i> <b>The distribution of mutual fund performance</b> <i>Olivier Scaillet</i> Discussant(s): <i>Aurore Delaigle, Chafik Bouhaddioui, Mohamed Taamouti</i></p>
<p><b>IPS119</b> Room : C.-1.01</p>	<p><b>Models and algorithms for network data</b> Organiser(s): <i>Antonietta Mira</i> Chair(s): <i>Kerrie Mengersen</i> <b>Analyzing relational events via marginal models with individual-specific effects</b> <i>Antonietta Mira</i> <b>Bayesian analysis of ERGM for large networks using component decomposition with an application to a large criminal network</b> <i>Johan Koskinen</i> <b>Modeling homophily in ERGMs for bipartite networks</b> <i>David Hunter</i></p>

<p><b>IPS130</b> Room : A.1.18</p>	<p><b>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</b> Organiser(s): <i>Caterina Primi</i> Chair(s): <i>Nora Abbiati</i> <b>Attitudes and learning approaches: modelling a pathway to achievement in statistics</b> <i>Francesca Chiesi</i> <b>Attitudes and learning strategies related to statistics performance in non-statistical university programs in Argentina.</b> <i>Maria Del Carmen Fabrizio</i> <b>The relationship between learning approaches and students' achievements in a third year statistics unit in Australia</b> <i>Ayse Aysin Bilgin</i> Discussant(s): <i>Corinne Hahn</i></p>
<p><b>IPS139</b> Room : B.0.01</p>	<p><b>Statistical Methods for HIV/AIDS Research</b> Organiser(s): <i>Brett Hanscom, Sahar Zangeneh</i> Chair(s): <i>Sahar Zangeneh</i> <b>Analysis of the Impact of the heterogeneity in exposure to HIV on the results of HIV prevention trials</b> <i>Dobromir Dimitrov</i> <b>Design and analysis issues associated with community-based trials: HIV test and treat (the search study) and eliminating dengue fever</b> <i>Nicholas Jewell</i> <b>HIV prevention trial design in the era of highly effective prevention</b> <i>Deborah Donnell</i> <b>Robust estimation methods for generalized change-point models with an application to HIV-surveillance data</b> <i>Jean De Dieu Tapsoba</i></p>
<p><b>IPS054</b> Room : A.1.16</p>	<p><b>Advances in Analysis of Complex Networks in Environmental Sciences</b> Organiser(s): <i>Yulia Gel</i> Chair(s): <i>Lelys Bravo De Guenni</i> <b>Interventions in networks</b> <i>Steve Thompson</i> <b>Real time probabilistic forecasting of infectious diseases using social media analytics.</b> <i>Lilia Leticia Ramirez Ramirez</i> <b>Structured graphical lasso with applications in finance and biology</b> <i>Veronica Vinciotti</i></p>

<p><b>IPS061</b> Room : A.-1.02</p>	<p><b>Recent Developments in Environmental Statistics</b> Organiser(s): <i>Rahmatullah Imon</i> Chair(s): <i>Orietta Nicolis</i> <b>identification of outliers in spatial data</b> <i>Ali Hadi</i> <b>Sampling issues in environmental statistics</b> <i>Rahmatullah Imon</i> <b>The analysis of PM10 suspended particulate air pollution using several robust techniques case study in an industrial area of penang malaysia</b> <i>Habshah Midi</i> Discussant(s): <i>Abdelhameed El-Shaarawi</i></p>
<p><b>IPS091</b> Room : A.0.01</p>	<p><b>Advances in the Classification of Time Series</b> Organiser(s): <i>Ann Maharaj</i> Chair(s): <i>Ann Maharaj</i> <b>Conditional adaptive Bayesian spectral analysis of nonstationary biomedical time series</b> <i>Robert Krafty</i> <b>Feature-based visualization of big time series data</b> <i>Souhaib Taieb</i> <b>Robust fuzzy clustering models for time series based on quantile autocovariances</b> <i>Jose Vilar</i> Discussant(s): <i>Ahlame Douzal</i></p>
<p><b>STS006</b> Room : A. - 1.07</p>	<p><b>Recent Advances in Statistical Methods for Large Scale Correlated Phenomena</b> Organiser(s): <i>Balgobin Nandram, Jian Zou</i> Chair(s): <i>Ta-Hsin Li</i> <b>Bayesian logistic regression for small areas with numerous households</b> <i>Balgobin Nandram</i> <b>Estimation of a distribution function with increasing failure rate average</b> <i>Hammou Elbarmi</i> <b>Unsupervised self-normalized change-point testing for time series</b> <i>Ting Zhang</i></p>

<p><b>STS734</b>  <b>Room : B.</b>  <b>1.04</b></p>	<p><b>Statistical Authorities role in monitoring &amp; achieving the Sustainable Development Goals SDGs</b>  Organiser(s): <i>Mohamed Ismail</i>  <b>Official statistics in monitoring and achieving goal 1 of SDGs; with illustrations from Egypt</b>  <i>Heba El Laithy</i>  <b>TBD</b>  <i>Magued Osman</i>  <b>TBD</b>  <i>Tara Vishwanath</i>  <b>Towards an integrated system to monitor the implementation of the national and international sustainable development goals</b>  <i>Nehal El-Megharbel</i>  Discussant(s): <i>Mohamed Ismail</i></p>
<p><b>STS036</b>  <b>Room : A. -</b>  <b>1.06</b></p>	<p><b>Celebrating 35 Years of Danny Pfeffermann's Contributions to Modern Survey Sampling</b>  Organiser(s): <i>Li-Chun Zhang, Natalie Shlomo, Nikos Tzavidis</i>  Chair(s): <i>Natalie Shlomo</i>  <b>A time series approach to small area estimation with Benchmarking</b>  <i>Richard Tiller</i>  <b>Estimation of mean squared error of X-11-ARIMA and other estimators of time series components</b>  <i>Michael Sverchkov</i>  <b>Notes on Bayes-based non-Bayesian likelihood estimation</b>  <i>Li-Chun Zhang</i>  Discussant(s): <i>Pedro Silva</i></p>
<p><b>STS055</b>  <b>Room : A. -</b>  <b>1.09</b></p>	<p><b>Benchmarking gender matters on basis of statistics.</b>  Organiser(s): <i>Bouchra Bouziani</i>  Chair(s): <i>Francesca Grum</i>  <b>Gender equality indicators in Denmark</b>  <i>Maria Boye</i>  <b>Gender Wage Gap in Morocco: What can statistics tell us?</b>  <i>Mustapha Ziroili</i>  <b>Monetary cost of violence against women VAW in Jordan</b>  <i>Manal Sweidan</i>  Discussant(s): <i>Joann Vanek</i></p>

<p><b>STS059</b> Room : A. - 1.17</p>	<p><b>Improving surveillance of the money markets</b> Organiser(s): <i>Josep Maria Puigvert Gutierrez</i> Chair(s): <i>Jean-Marc Israël</i> <b>Improving the bank of England's understanding of sterling money markets using transaction-level data</b> <i>Robert Harris</i> <b>Initial statistical findings on the new money market statistical reporting</b> <i>Josep Maria Puigvert Gutierrez</i> <b>The money market information model of Banco de Mexico</b> <i>Alejandro Gaytán</i> Discussant(s): <i>Ronald Rühmkorf</i></p>
<p><b>STS080</b> Room : C. - 1.03</p>	<p><b>Full International and Global Accounts for Research in Input-Output Analysis: EU input to the Trade in Value Added Statistics</b> Chair(s): <i>Silke Stapel-Weber</i> <b>Creating Global Input-output tables</b> <i>Nadim Ahmad</i> <b>FIGARO "Full International and Global Accounts for Research in Input-Output analysis": the methodological challenge of trade data</b> <i>Jose Manuel Rueda Cantuche</i> <b>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</b> <i>Isabelle Remond-Tiedrez</i></p>
<p><b>OR-A14</b> Room : A. - 1.11</p>	<p><b>Applications 14</b> <b>A Post-stratification Approach for Efficient Estimation in Two-stage Randomized Clinical Trials</b> <i>Nabil Awan</i> <b>Aim to expand Statistical capacity in Bangladesh</b> <i>Islam Md Shariful</i> <b>BI-MEGA: A bivariate Gaussian mixture model for identifying methylation driven genes</b> <i>Prunello Marcos</i> <b>Fitting a generalised extreme value distribution to four candidate annual maximum flood heights time series models in the lower Limpopo River basin of Mozambique</b> <i>Daniel Maposa</i> <b>Measure up: A Better Way to Calculate GDP</b> <i>Marco Marini</i> <b>Towards more interactive learning in statistical literacy</b> <i>Jukka Hoffren</i></p>

<p><b>OR-B19</b> Room : A.-1.13</p>	<p><b>Methods and Theory 19</b>  <b>A Bayesian Semiparametric Approach for Analysing the Effect of Longitudinal Covariate Profiles on a Continuous Outcome</b>  <i>Dhiman Bhadra</i>  <b>An Study on Comparing Distance-based and Probability-based Discrimination Methods for Planar Shape Data</b>  <i>Mousa Golalizadeh</i>  <b>Approximate Bayes Estimators of Inverse Gaussian Parameters under Different Loss Functions</b>  <i>Ilhan Usta</i>  <b>On identification region of halfspace depth of interval-valued data</b>  <i>Miroslav Rada</i>  <b>Pseudo-Gaussian Test of AR(p) Against an EXPAR(p) Involving Nuisance Parameters which are Present Only Under the Alternative</b>  <i>Nabil Azouagh</i>  <b>Regression estimation by local polynomial fitting for multivariate data stream</b>  <i>Amiri Aboubacar</i>  <b>Sequential design of experiments to estimate a probability of exceeding a threshold in a multi-fidelity stochastic simulator</b>  <i>Rémi Stroh</i></p>
<p><b>OR-B22</b> Room : A.-1.14</p>	<p><b>Methods and Theory 22</b>  <b>Bayesian Inversion in Hidden Markov Models based on Prior with Varying Marginal Proportions</b>  <i>Selamawit Moja</i>  <b>Drift parameter estimation based on discrete observations of stochastic differential equation driven by fractional Brownian motion</b>  <i>Kostiantyn Ralchenko</i>  <b>Modified/Robust Mantel-Haenszel Test using Probabilistic Approach</b>  <i>Edith Umeh</i>  <b>Multivariate Elliptical Truncated Moments</b>  <i>Juan Arismendi</i>  <b>Stylized facts in immature and mature stock markets: univariate and multivariate analyses using copula modelling</b>  <i>Mhamed-Ali El-Aroui</i></p>



<p>PP-E02 Room : A. 0.21</p>	<p><b>Business &amp; Industry 02</b> <b>A Simulation of Rolling Sample Design Using Restaurant Web Data</b> <i>Mikio Suga</i> <b>Agricultural statistics in Morocco: To a diversity of sources of agricultural statistics</b> <i>Said Saghir Zarouali</i> <b>Analysis of determinants of coffee farm gate prices in Uganda</b> <i>Christopher Lubega</i> <b>Compiling financial accounts: a European perspective</b> <i>Caroline Willeke</i> <b>Credit scoring and its implementation: Setting the cut-offs</b> <i>Mehdi Bazzi</i> <b>Determinants of the Education - Occupation Mismatch among the Highly Educated in Egypt.</b> <i>Azza Borae</i> <b>Developing a digital tool for the Office for National Statistics to report on the UN Sustainable Development Goals</b> <i>Ioannis Tsalamanis</i> <b>Estimating the growth-maximizing tax rate for Benin: Evidence and implications</b> <i>Apollos Djogbenou</i> <b>Joint Modelling of Rainfall and Temperature in Bahir Dar, Ethiopia: Application of Copula</b> <i>Haile Fenta</i> <b>Measuring disparities in wages and employment in Egypt</b> <i>Reem Elsybaey</i> <b>Modeling of extreme seasonal values: cases of high temperature intensities</b> <i>Moumouni Diallo</i> <b>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</b> <i>Jean Baptiste Habyarimana</i> <b>Profile analysis of clustered European countries based on selected variables impacting the e-commerce realized by individuals</b> <i>Ksenija Dumić?</i> <b>The challenges for improving statistical literacy in developing countries; case study of tanzania</b> <i>Elieza Paul</i></p>
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<b>IPS001</b> <b>Room : A.0.01</b>	<b>ISI President's Invited Keynote Lecture</b> Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> <b>Data science in the tidyverse</b> <i>Hadley Wickham</i>
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<p><b>IPS005</b> Room : A.0.01</p>	<p><b>ISI Pearson Prize Lecture</b> Organiser(s): <i>Pedro Silva</i> Chair(s): <i>Pedro Silva</i> <b>Statistical analysis with missing data: past, present and future</b> <i>Roderick Little</i></p>
<p><b>IPS120</b> Room : A.-1.02</p>	<p><b>Telling statistical stories and teaching good data sense to the public</b> Organiser(s): <i>Albert Bailer, Regina Nuzzo</i> Chair(s): <i>Albert Bailer</i> <b>Accountability in an empire of data: what do journalists need to know about statistics?</b> <i>Trevor Butterworth</i> <b>Bringing statistics to humanitarian causes and government organizations</b> <i>Liberty Vittert</i> <b>Why journalists are afraid of uncertainty, and what statistics can do to fix that</b> <i>Regina Nuzzo</i></p>
<p><b>IPS125</b> Room : A.1.16</p>	<p><b>ASMBI session</b> Organiser(s): <i>Fabrizio Ruggeri</i> Chair(s): <i>Fabrizio Ruggeri</i> <b>Computational advertisement and its meta analysis in practice</b> <i>Hongxia Yang</i> Discussant(s): <i>David Banks, Quan Lu</i></p>
<p><b>IPS151</b> Room : A.1.18</p>	<p><b>Environmetrics Journal IPS</b> Organiser(s): <i>Walter Piegorsch</i> Chair(s): <i>Christopher Wikle</i> <b>Spatio-temporal models for skewed processes</b> <i>Alexandra Schmidt</i> Discussant(s): <i>Jonathan Stroud, Marc Genton</i></p>
<p><b>IPS152</b> Room : C.-1.02</p>	<p><b>International Statistical Review (ISR) Session</b> Organiser(s): <i>Nalini Ravishanker, Ray Chambers</i> Chair(s): <i>Ray Chambers</i> <b>Statistical inference, learning and models for big data</b> <i>Nancy Reid</i> Discussant(s): <i>Genevra Allen, Ralf Münnich</i></p>

<p><b>PO-G05</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Survey Statistics 05</b>  <b>Analysis of panel data</b>  <i>Ahmed Amin</i>  <b>Comparison between estimates for proportion: The case of the ICT in Education Survey</b>  <i>Isabela Coelho</i>  <b>Logistic Regression Modelling for Complex Survey Data with an Application for Bed Net Use in Mozambique</b>  <i>Sheyla Cassy</i>  <b>TabuladorBeta - A system to transform raw data in planned survey data tables</b>  <i>Marcelo Pitta</i>  <b>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</b>  <i>Michal Sabah</i>  <b>Using Face book in raising awareness with the Egyptian Census 2017</b>  <i>Waleed Abdelkhalik Mohammed</i></p>
<p><b>PO-B28</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Methods and Theory 28</b>  <b>Accurate likelihood inference for the generalized exponential distribution</b>  <i>Isolde Previdelli</i>  <b>SARFIMA Integer-Valued Processes</b>  <i>Silvia Lopes</i></p>
<p><b>PO-B29</b>  <b>Room : A.</b>  <b>0.20</b></p>	<p><b>Methods and Theory 29</b>  <b>Comparison of Several Approaches of Variable Selection in Regression Fields</b>  <i>Youssef Idelcaid</i>  <b>The modeling of a recommender system intended for researchers using a documentary service: the case of the Moroccan Institute of Scientific and Technical Information (IMIST).</b>  <i>Amine Sennouni</i></p>

<p><b>IPS118</b> Room : B.1.03</p>	<p><b>Advanced Methodological Contributions in Time Series Literature</b> Organiser(s): <i>Abdou K Diongue, Dahud Kehinde Shangodoyin</i> Chair(s): <i>Julie Novak</i> <b>Forecasting Limit Order Book Liquidity Supply-Demand Curves with Functional Auto-Regressive Dynamics</b> <i>Ying Chen</i> <b>Multiple Seasonal ARFIMA model with BL-GARCH type innovations</b> <i>Mor Ndongo</i> <b>Simulated Hellinger disparity estimation of a cyclical long memory process</b> <i>Ouagnina Hili</i> Discussant(s): <i>Abdou K Diongue</i></p>
<p><b>IPS019</b> Room : A.0.01</p>	<p><b>New methods for new data: application of models in official statistics production</b> Organiser(s): <i>Dario Buono</i> Chair(s): <i>Emanuele Baldacci</i> <b>Recent advances in changepoint detection and their application in official statistics</b> <i>Eckley Idris</i> <b>Reporting uncertainties - too much information?</b> <i>Gianluca Iaccarino</i> <b>Time series models for combining survey and new data sources in the production of official statistics</b> <i>Duncan Elliot</i> Discussant(s): <i>Aston Jonh, Patrick Graham</i></p>
<p><b>IPS137</b> Room : C.-1.02</p>	<p><b>Recent Advances in Big Data Inference with Network Structures</b> Organiser(s): <i>Zhao Ren</i> Chair(s): <i>Robert Krafty</i> <b>Convexified modularity maximization for degree-corrected stochastic block models</b> <i>Xiaodong Li</i> <b>Covariate-adjusted latent semiparametric graphical model and its applications in structure biology</b> <i>Wen Zhou</i> <b>Inference in high-dimensional semi-parametric graphical models</b> <i>Mladen Kolar</i> <b>Theoretical and computational guarantees for mean-field variational Bayes method on community detection</b> <i>Anderson Zhang</i></p>

<p><b>IPS039</b> Room : C.-1.01</p>	<p><b>Global, regional, national and thematic monitoring of the SDGs</b>  Organiser(s): <i>Nicola Massarelli, Tiina Luige</i>  Chair(s): <i>Nicola Massarelli</i>  <b>Conference of European statisticians road map on statistics for SDGs</b>  <i>Tiina Luige</i>  <b>National reporting of SDGs in Canada</b>  <i>Cara Williams</i>  <b>Reporting on full and productive employment and decent work for all: linking national sdg data reporting with the global agenda</b>  <i>Steven Kapsos</i>  <b>Sustainable development goals' reporting at global, regional and national levels: A UK perspective</b>  <i>Emma Rourke</i>  Discussant(s): <i>Enrique Jesus Ordaz Lopez</i></p>
<p><b>IPS141</b> Room : A.-1.02</p>	<p><b>Can Agricultural Statistics benefit from Big Data?</b>  Organiser(s): <i>Jacques Delince</i>  Chair(s): <i>Jacques Delince</i>  <b>Assessment of the performance of ESA's Sentinel-2 for use in African agricultural statistics: learnings from the STARS and sen2agri projects in Mali</b>  <i>Pierre Traore</i>  <b>Discussion on visual inference</b>  <i>Heike Hofmann</i>  <b>Early estimates of US crop areas and production from real time monitoring of field machinery</b>  <i>Mathew Meisner</i>  Discussant(s): <i>Siu-Ming Tam</i></p>
<p><b>IPS156</b> Room : A.-1.08</p>	<p><b>Recent developments in time series modelling and applications</b>  Organiser(s): <i>Ibrahim Mohamed</i>  Chair(s): <i>Mohamad Mahidin</i>  <b>Moment properties and quadratic estimating functions for integer-valued time series models</b>  <i>Ibrahim Mohamed</i>  <b>Recent developments in modelling time varying parameters and applications</b>  <i>Aerambamoorthy Thavaneswaran</i>  <b>Scale mixture of Skewed Kalman filter and its application</b>  <i>Yoshinori Kawasaki</i>  Discussant(s): <i>Azami Zaharim</i></p>

<p><b>IPS059</b> Room : A.1.18</p>	<p><b>Recent advances in Bayesian modelling of spatial and spatio-temporal data</b> Organiser(s): <i>Sujit Sahu</i> Chair(s): <i>Peter Challenor</i> <b>A network state space model with an application to assessing ALS disease progression</b> <i>Huiyan Sang</i> <b>Bayesian spatio-temporal point level modelling of air pollution concentration levels for estimating long term exposure in coarser administrative geographies in England and Wales</b> <i>Sujit Sahu</i> <b>Combining ecological and individual scale data through generalised propensity scores: an application to assess the long term respiratory effects of air pollution</b> <i>Monica Pirani</i> <b>Global estimation of air quality and the burden of disease associated with ambient air pollution</b> <i>Gavin Shaddick</i> <b>Spatio-temporal modelling for estimating air pollution exposure in Santiago de Chile</b> <i>Orietta Nicolis</i></p>
<p><b>IPS073</b> Room : B.0.02</p>	<p><b>Innovative Approaches for Agricultural and Rural Censuses</b> Organiser(s): <i>Barbara Rater</i> Chair(s): <i>Barbara Rater</i> <b>Innovative approaches for agricultural census in Georgia</b> <i>Maia Guntsadze</i> <b>New approaches for the agricultural census in Brazil</b> <i>Octavio Costa De Oliveira</i> <b>Small area estimation for Crop acreage in remote sensing measurement of Chinese agricultural census: a case of major crop acreage estimation in liaoning province</b> <i>Zhou Wei</i> <b>The 2017 U.S. census of agriculture: calibration and rounding</b> <i>Linda Young</i> Discussant(s): <i>Eva Laczka</i></p>

<p>IPS094 Room : B.0.01</p>	<p><b>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)</b> Organiser(s): <i>Elisa Munoz Franco Benes</i> Chair(s): <i>Alain Vuille</i></p> <p><b>Measuring farm labor in Ghana and Tanzania</b> <i>Isis Gaddis</i></p> <p><b>Measuring labour on agricultural holdings through agricultural surveys: FAO experience with the agricultural integrated survey (AGRIS)</b> <i>Chiara Brunelli</i></p> <p><b>Questionnaire testing around the world and back: results of the testing of the new international standards on statistics of work, employment and labour underutilization</b> <i>Elisa Munoz Franco Benes</i></p> <p><b>Towards input harmonisation for the measurement of employment and unemployment in the European Union</b> <i>Fabienne Montaigne</i> Discussant(s): <i>Tite Habiyakare</i></p>
<p>IPS099 Room : A.1.16</p>	<p><b>Modernisation of official statistics: how developing and transition countries can benefit of the existing initiatives</b> Organiser(s): <i>Jose Cervera-Ferri</i> Chair(s): <i>José Cervera-Ferri</i></p> <p><b>Analysis of the implementation of standardized frameworks as means to modernize the production of statistical and geographical information in mexico's national statistical office</b> <i>Enrique De Alba</i></p> <p><b>Modernization of national statistical systems ? challenges and benefits</b> <i>Petteri Baer</i></p> <p><b>National implementation of the GSBPM - The Egyptian experience</b> <i>Ayman Hathoot</i></p> <p><b>The main challenges related to the rebuilding of INDEC in the Republic of Argentina</b> <i>Munoz Herman</i></p> <p><b>The use of administrative registers</b> <i>Bouazza Bouchkhar</i> Discussant(s): <i>Alphonse Macdonald</i></p>



<p><b>STS017</b> Room : A. - 1.07</p>	<p><b>Falsifications in socio-economic statistics and counter measure techniques</b> Organiser(s): <i>Vasiliy Simchera</i> Chair(s): <i>Okrasa Wlodzimiers</i> <b>Bilateral technologies to counteract the official data falsifications: methods and evaluation</b> <i>Vasiliy Simchera</i> <b>How to organise the production of cross-border statistics?</b> <i>Johan van der Valk</i> <b>TBD</b> <i>Motoryn Ruslan</i> <b>Well-being paradox in transborder areas ? objective and subjective measures</b> <i>Marek Ciepiel-Wolan</i> Discussant(s): <i>Misha Belkindas</i></p>
<p><b>STS039</b> Room : A. - 1.06</p>	<p><b>Recent Advances in High-Dimensional Time Series Analysis and Applications to Brain Imaging</b> Organiser(s): <i>David Degras</i> Chair(s): <i>John Aston</i> <b>Clustering of brain signals using the hierarchical spectral merger (HSM) method</b> <i>Carolina Euá N</i> <b>Data visualization and exploratory analysis of high dimensional time series</b> <i>Hernando Ombao</i> <b>Dynamic brain connectivity: a Group Fused Lasso Approach</b> <i>David Degras</i> <b>Estimating dynamic connectivity states in high-dimensional brain signals using regime-switching factor VAR models</b> <i>Chee-Ming Ting</i> <b>Fast Sparse matrix factorization for Huge Brain-Imaging data</b> <i>Arthur Mensch</i></p>
<p><b>STS075</b> Room : A. - 1.05</p>	<p><b>Statistics in High dimension and applications(double)</b> Organiser(s): <i>Abdallah Mkhadri, Karim Oualkacha</i> <b>Column subset selection and applications to compressed sensing and feature extraction</b> <i>Stéphane Chrétien</i> <b>Joint estimation of multiple dependent Gaussian graphical models</b> <i>Yuying Xie</i> <b>Model-based co-clustering of multivariate functional data</b> <i>Christophe Biernacki</i> <b>Principal component of explained variance: an efficient and optimal data dimension reduction framework</b> <i>Aurelie Labbe</i> <b>The latent block model: a useful model for high dimensional data</b> <i>Christine Keribine</i></p>

<p><b>OR-E04</b> Room : A.-1.13</p>	<p><b>Business &amp; Industry 4</b>  <b>Automatic coding via SICORE applied to the treatment of the administrative sources of High Commission for Planning (HCP) of Morocco</b>  <i>Georges Bourdallé</i>  <b>Case studies in applied statistics using R</b>  <i>Wessel (Henri) Moolman</i>  <b>Fuzzy time series markov chain for forecasting the exchange rate of indonesian rupiah to us dollar</b>  <i>Sofyan Hizir</i>  <b>Modeling the yields curve of Sukuk Ijarah</b>  <i>Dedi Rosadi</i>  <b>Simple Exact Optimal Sample Allocation Algorithms</b>  <i>Tommy Wright</i>  <b>Television Audience Measurement in Morocco: Methodology, Challenges and Perspectives.</b>  <i>Rachida Naitiaz</i></p>
<p><b>OR-B32</b> Room : A. - 1.11</p>	<p><b>Methods and Theory 32</b>  <b>An Empirical Analysis of Islamic Banking and Economic Growth in Malaysia</b>  <i>Mazreha Ya'akyb</i>  <b>Index of Services - Measuring the Performance of the Services Sector</b>  <i>Nahdhatyl Akmal Abu bakar</i>  <b>Measuring the Wealth of Malaysia through Capital Stock Statistics</b>  <i>Kanageswary Ramasamy</i>  <b>SPDEs driven by Levy noise and applications</b>  <i>Smii Boubaker</i>  <b>The Contribution of Capital of Local and Foreign Owned Firms for the Manufacturing Sector In Malaysia</b>  <i>Jamia Aznita Jamal</i></p>

<p><b>IPS103</b> Room : C.-1.02</p>	<p><b>Recent Developments in Copula Models</b> Organiser(s): <i>Louis-Paul Rivest</i> Chair(s): <i>Taoufik Bouezmarni</i> <b>A prospective likelihood copula-based approach for the analysis of secondary phenotypes in ascertained samples</b> <i>Karim Oualkacha</i> <b>An alternative to the use of empirical copulas: the copula characteristic function</b> <i>Tarik Bahraoui</i> <b>D-vine based quantile regression with application to stress testing</b> <i>Claudia Czado</i> Discussant(s): <i>Louis-Paul Rivest</i></p>
<p><b>IPS110</b> Room : A.1.16</p>	<p><b>Recent Advances in Lifetime Data Analysis</b> Organiser(s): <i>Mei-Ling Ting Lee</i> Chair(s): <i>Christos Kitsos</i> <b>Nonparametric inference for current status models</b> <i>Xingqiu Zhao</i> <b>Prova</b> <i>Mei-Cheng Wang</i></p>
<p><b>IPS135</b> Room : B.0.02</p>	<p><b>Multiple Imputation methods for Survey Nonresponse</b> Organiser(s): <i>Sahar Zangeneh</i> Chair(s): <i>Jean De Dieu Tapsoba</i> <b>Imputations for different types of nonresponse in longitudinal surveys</b> <i>Shahab Jolani</i> <b>Model-based Methods for missing data in surveys with post-stratification information</b> <i>Sahar Zangeneh</i> <b>Multiple imputation of missing administrative data to adjust for record linkage nonresponse</b> <i>Joseph Sakshaug</i> Discussant(s): <i>Heeringa Steven</i></p>
<p><b>IPS041</b> Room : A.-1.08</p>	<p><b>New advances in applied Bayesian Nonparametrics</b> Organiser(s): <i>Raffaele Argiento</i> Chair(s): <i>Igor Prünster</i> <b>A Bayesian Nonparametric approach for the analysis of multi-subject fMRI data</b> <i>Michele Guindani</i> <b>A bayesian nonparametric linear dependent model for the analysis of taxonomic abundances in microbiome data</b> <i>Raffaele Argiento</i> <b>Bayesian inference for the extremal dependence</b> <i>Isadora Antoniano Villalobos</i> <b>Using partition models to find interactions</b> <i>Garrit Page</i></p>

<p><b>IPS143</b> Room : A.0.01</p>	<p><b>Models and Visualization for Exploratory Analysis of Big Data</b> Organiser(s): <i>Genevera Allen</i> Chair(s): <i>Matthew Parry</i> <b>Higher-order supervised dimension reduction methods: applications to electrocorticography</b> <i>Genevera Allen</i> <b>Managing multiple models</b> <i>Hadley Wickham</i> <b>Measuring connectivity in the financial sector</b> <i>George Michailidis</i> Discussant(s): <i>John Aston</i></p>
<p><b>IPS155</b> Room : C.-1.01</p>	<p><b>Water Resources and Hydrology</b> Organiser(s): <i>Fadhilah Yusof</i> Chair(s): <i>Zulkifli Yusop</i> <b>Characterizing &amp; modeling of extreme rainfall in Peninsular Malaysia: Bayesian vs classical approaches</b> <i>Wan Zawiah Wan Zain</i> <b>Developing future intensity-duration-frequency(IDF) curves</b> <i>Fadhilah Yusof</i> <b>Short-term variability of Johor River discharge based on Wavelet analysis</b> <i>Norhaiza Ahmad</i></p>
<p><b>IPS158</b> Room : A.-1.02</p>	<p><b>Harnessing the power of data for sustainable development: Bringing data communities together</b> Organiser(s): <i>Francesca Perucci</i> Chair(s): <i>Francesca Perucci</i> <b>Counting people to make people count</b> <i>Enrique Jesus Ordaz Lopez</i> <b>Exploring and integrating new data sources</b> <i>Linda Peters</i> <b>Making data speak to the public</b> <i>Baah Wadieh</i> <b>TBD</b> <i>Pali Lehohla</i> Discussant(s): <i>Irena Krizman</i></p>
<p><b>IPS090</b> Room : A.1.18</p>	<p><b>Methods for analysis of public use survey data reporting replicate weights</b> Organiser(s): <i>J. N.K. Rao</i> Chair(s): <i>David Haziza</i> <b>Alternative weighting options in the regression analysis of survey data</b> <i>Chris Skinner</i> <b>Empirical likelihood inference with public-use survey data</b> <i>J. N. K. Rao</i> <b>Hypothesis testing from complex survey data using bootstrap weights: a unified approach</b> <i>Jae Kim</i> Discussant(s): <i>Jiahua Chen</i></p>

<p><b>IPS097</b> Room : B.0.01</p>	<p><b>GDP and beyond: recent developments in measuring and analyzing well-being</b> Organiser(s): <i>Bernd Stoertzbach</i> Chair(s): <i>Sibylle Von Oppeln-Bronikowski</i> <b>GDP and Beyond: measuring In well-Being (Tanzania)</b> <i>Gabriel Kulomba Simbila</i> <b>The dissemination game. how to communicate official statistics to non-expert users</b> <i>Hannah Thomas</i> <b>Well-being from the perspective of Germany's official statistics</b> <i>Susanne Schnorr-Baecker</i> Discussant(s): <i>Pierre Lamarche</i></p>
<p><b>STS025</b> Room : A. - 1.07</p>	<p><b>Measuring services trade in the globalised world</b> Organiser(s): <i>Riina Kerner</i> Chair(s): <i>Riina Kerner</i> <b>Portrait of the firm who is trading services internationally: number of employees, ownership, and main activity</b> <i>Veijo Ritola</i> <b>Spanish approach for measuring trade in services by enterprise characteristics and by modes of supply</b> <i>Jose Antonio Isanta Foncuberta</i> <b>Towards a Global Data Set on Trade in Services by Sector and Mode of Supply</b> <i>Andreas Maurer</i> <b>Trade in services by GATS modes of supply: statistical concepts and first EU estimates</b> <i>Jose Manuel Rueda Cantuche</i> Discussant(s): <i>Steve Macfeely</i></p>
<p><b>STS035</b> Room : A. - 1.06</p>	<p><b>Strategies and methods for dealing with population over-coverage in administrative data</b> Organiser(s): <i>Tracey Savage</i> Chair(s): <i>Holmberg Anders</i> <b>Administrative Records and Over-coverage in the Statistical Business Register at INEGI</b> <i>Enrique De Alba</i> <b>Estimating and adjusting for over-coverage when using administrative data: Stats NZ's 2018 Census and future census model</b> <i>Tracey Savage</i> <b>Estimating population size from multisource data: a Bayesian perspective to latent class modelling.</b> <i>Davide Di Cecco</i> <b>Trimmed Dual System Estimation (TDSE) and the hunt for overcoverage</b> <i>John Dunne</i> Discussant(s): <i>Li-Chun Zhang</i></p>

<p><b>STS057</b> Room : A. - 1.09</p>	<p><b>Integrating capability elements to enhance the general value of assets and skills within Statistical Institutes</b> Organiser(s): <i>Nadia Mignolli, Piero Falorsi</i> Chair(s): <i>Tudorel Andrei</i> <b>Competency measurement model</b> <i>Dario Russo</i> <b>Istat's business architecture model for identifying the capabilities required by the internal modernisation process</b> <i>Giulio Barcaroli</i> <b>TBD</b> <i>Thomas Laitila</i> <b>TBD</b> <i>Roberta Pace</i> <b>TBD</b> <i>Ilie Dumitrescu</i> Discussant(s): <i>Nadia Mignolli</i></p>
<p><b>STS073</b> Room : A. - 1.05</p>	<p><b>Voluntary vs Mandatory Surveys: What are the Challenges?</b> Organiser(s): <i>Jean-Louis Bodin</i> Chair(s): <i>Jean-Louis Bodin</i> <b>Mandatory surveys: how does it work in France?</b> <i>Jean-Pierre Le Gleau</i> <b>Place and prospects of voluntary surveys in sub-Saharan Africa</b> <i>Paul-Henri Nguema-Meye</i> <b>The American Community Survey: Balancing Respondent Burden and Data Quality</b> <i>Victoria Velkoff</i> <b>The return of the mandatory census long form: end of the statistical confidence crisis in Canada ?</b> <i>Jean-Pierre Beaud</i></p>
<p><b>OR-A11</b> Room : A. - 1.11</p>	<p><b>Applications 11</b> <b>Accessibility of the rural population to road infrastructure using the statistical approach</b> <i>Mostafa Abdeli</i> <b>Factors associated with multiple lost to follow-up episodes among HIV-infected persons in rural Tanzania</b> <i>Aneth Kalinjuma</i> <b>Non Homogeneous Hidden Markov Model for Daily Precipitations NHHMMDP</b> <i>Nestor Bokossa</i> <b>Small Area Poverty Estimation under Heteroskedasticity: An Application to Bangladesh</b> <i>Sumonkanti Das</i> <b>SPATIAL ANALYSIS OF PARTICIPANTS IN THE INDIVIDUAL PENSION SYSTEM OF TURKEY</b> <i>Yeliz Mert Kantar</i> <b>The fusion of PCA and CIDI methodology as the foundation of the ARWU-THE-QS university ranking index</b> <i>Milica Bulajic</i></p>

<p><b>OR-A15</b> Room : A.-1.13</p>	<p><b>Applications 15</b>  <b>A coordinate descent algorithm for computing penalized smooth quantile regression</b>  <i>Mohamed Ouhourane</i>  <b>A survival model with Birnbaum-Saunders frailty for uncensored and censored cancer data</b>  <i>Vera Tomazella</i>  <b>Employment and labour market dynamics: Empirical analysis using a duration model</b>  <i>Nawal Zaaj</i>  <b>Estimation in Oil Forward Price Models Implied by Real Word Pricing-A Filtering Approach</b>  <i>Yassine El Qalli</i>  <b>Measuring and mapping multidimensional poverty in Morocco (GPHC 2004 and GPHC 2014)</b>  <i>Fouzia Daoudim</i>  <b>Occupational dissimilarity of gender in the formal labor market in the state of Rio de Janeiro - An analysis based on data from RAIS and PNAD (2002/2004 and 2011/2013)</b>  <i>André Felipe Neves</i></p>
<p><b>OR-B20</b> Room : A.-1.14</p>	<p><b>Methods and Theory 20</b>  <b>Classifying Punjabi Poetry Using Lexical and Syntactic Features with TF-IDF Weighting and Gain Ratio Ranking</b>  <i>Jasleen Kaur</i>  <b>Exponentiated Kumaraswamy Exponentiated Weibull Distribution with Application</b>  <i>Noor Ibrahim</i>  <b>Marginal integration M-estimators for additive models</b>  <i>Martinez Alejandra</i>  <b>On the Beran Estimator for the Weibull-Type Tail Coefficient</b>  <i>Tchilabalo Kpanzou</i>  <b>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</b>  <i>Niklas Ahlgren</i></p>

<p>PP-G04 Room : A. 0.21</p>	<p><b>Survey Statistics 04</b>  <b>Census quality assurance: a case study on projection of Egypt 2017 E-census</b>  <i>Said Abdelrhman</i>  <b>CPI-Based Outputs and Uses ? Abu Dhabi Experience</b>  <i>Muna Al Suwaidi</i>  <b>Diagnose: an online learning analytics service that helps to detect individual statistical misconceptions</b>  <i>Pim Bellinga</i>  <b>Egypt Census of Population, Housing and Establishments 2016 Challenges and Development</b>  <i>Amal El Sharnoby</i>  <b>Eliminating diseases prevalence through Applying technological techniques in statistical surveys</b>  <i>Nehall Farouk</i>  <b>Estimators of Intracluster Correlation Coefficients for Binary Outcomes: Comparison Using a Health Multicountry Survey</b>  <i>Cristina Cuesta</i>  <b>Methodological adjustment in subjective measurements to improve data quality and individual freedoms</b>  <i>Jhoner Perdomo</i>  <b>Modelling opinion on legalization of recreational use of marijuana with a survey of Rio de Janeiro residents</b>  <i>Andrea Diniz Da Silva</i>  <b>Non-US-Citizens Earning Doctoral Degrees in Statistics and Biostatistics Departments in the US</b>  <i>Amanda Golbeck</i>  <b>Reviewing the Choice of Index formula in the Korean Consumer Price Index -Regarding the Revision of the Weight Updates for the Korean CPI-</b>  <i>Sung Joo Lim</i>  <b>Sentiment analysis and the rule of social media in social and revolutionary movement: case of North Africa between 2010 and 2016</b>  <i>Ayoub Oubibi</i>  <b>Small Area Estimation for multivariate repeated measures data</b>  <i>Innocent Ngaruye</i>  <b>Teaching basic statistics to blind students</b>  <i>Shu Wei Chou Chen</i>  <b>The Estimation of the population parameters by the small area estimation Methods(Case study of labor force survey and Census 2006 in Egypt)</b>  <i>Rawia Ragab</i>  <b>Towards Constructing Egyptian Consumer Confidence Index(ECCI) based on Social Media</b>  <i>Sahar Ammar</i>  <b>Using Geographic Information Systems (GIS) to map the spatial distribution and to analyse the risk factors associated to cervical cancer across Morocco</b></p>
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*Ghizlane Hazam*

**Using the new urban-rural classification in estimating regional apartment prices**

*Atro Andersson*

**Variance estimation in multiple imputation - inadmissibility of the Rubin estimator**

*Wesolowski Jacek*

**Work longer, learn longer: evidence from Italian Adult Education Survey (AES)**

*Paolo Emilio Cardone*