

New Techniques and Technologies for Statistics 2019

Brussels 11-15 March 2019

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| | Monday, 11 March 2019 | |
|-------------|--|------------------------------------|
| 09:00-13:00 | Satellite Event: Big Data hackathon – presentations The European statistics Big Data Hackathon is organised by Eurostat to gather teams fror to compete for the best data product combining official statistics and big data to support in a pressing policy question or statistical challenge facing Europe. | |
| 16:00-16:30 | Hackathon winners' announcement | |
| | | |
| | Tuesday, 12 March 2019 | |
| 07:00-08:00 | Warming-up, with 5k Morning Run | Parc du Cinquante |
| 08:00-18:00 | Registration | Charlemagne buil |
| 09:00-09:30 | Welcome Coffee | Charlemagne buil |
| 09:30-10:00 | Opening session | GAS |
| 03.30 10.00 | Chair: Mariana Kotzeva (<i>European Commission</i> , Director General of Eurostat) Moderator: Eduardo Barredo Capelot (<i>Eurostat - European Commission</i>) | |
| 10:00-10:15 | Welcome address Speaker: Marianne Thyssen (European Commission, Commissioner for Employment, Socia | al Affairs, Skills and Labour Mob |
| 10:15-11:00 | PLEN01: Keynote | |
| | Speaker: Sandy Pentland (<i>MIT</i> , United States) Title: Best Practice for Next Generation Statistics: Questions, Security, Privacy, a Moderator: Eduardo Barredo Capelot (<i>Eurostat - European Commission</i>) | and Governance |
| 11:00-12:30 | Big Data Hackathon award ceremony and laureate lectures | |
| | Awards by Mariana Kotzeva (European Commission, Director General of Eurostat) Moderator: Eduardo Barredo Capelot (Eurostat - European Commission) | |
| 12:30-13:30 | Lunch | Charlemagne buil |
| 12:30-13:30 | POST01: Poster session: Big Data Analytics | Charlemagne buil |
| | Supervised learning as a method to reduce clerical effort Joerg Feuerhake (Federal Statistical Office (Destatis), Germany) | |
| | Attributes for big data for official statistics – An application to scanner data in Luxerr Ibtissame Sahir, Florabela Carausu & Botir Radjabov (GOPA Luxembourg, Luxembourg) | nbourg |
| | Big data financial sentiment analysis in the European bond markets Luca Tiozzo & Elisa Tosetti (Joint Research Center (JRC) – European Commission) | |
| | Implementing big data in official statistics: Capture-recapture techniques to adjust fo surveys using sensor data | |
| | Jonas Klingwort ^{1,2} , Bart Buelens ³ & Rainer Schnell ^{2 1} (University of Duisburg-Essen, Germa Netherlands); ³ (Vlaamse Instelling voor Technologisch Onderzoek, Belgium) | any); ² (Statistics Netherlands (C |
| | Extraction of occupation, competences and qualifications from Internet job offers for Robert Pater ^{1,2} , Maciej Beręsewicz ³ & Łukasz Cywiński ^{1 I} (University of Information Techno ² (Educational Research Institute, Poland); ³ (Poznan University of Economics and Business | ology and Management, Poland); |
| | Forecasting tourist arrivals with online data: An application to the Valencian Commun Desamparados Blazquez ¹ , Fernando Reis ² & Josep Domenech ¹ ¹ (Universitat Politècnica de European Commission) | |
| | Reducing response burden by using administrative cash machine data in Hungarian re Agnes Andics, István Macsári & Zsolt Takács (Hungarian Central Statistical Office (HCSO), H | |
| | Using big data for official statistics: Web scraping as a data source for Statistical Bus Donato Summa, Gianpiero Bianchi, Monica Consalvi, Barbara Gentili, Flavio Pancella & Fra | siness Registers |
| | Smart business cycle statistics Clara Schartner & Markus Zwick (<i>Destatis</i> , Germany) | |
| | Smart meter data as a source for official statistics Karin Kraft & Ingegerd Jansson (<i>Statistics Sweden</i> , Sweden) | |

Social indicators and big data: A case study on social indicators and active citizenship Silvia Biffignandi, Camilla Salvatore & Annamaria Bianchi (University of Bergamo, Italy)



| 16:00-17:00 | IPS02: Big data and consumer price statistics |
|-------------|--|
| | Chair: Dirk-Jan Hoogerdijk (Eurostat - European Commission) |
| | Discussant: Claude Lamboray (Eurostat - European Commission) |
| | Organiser: Dirk-Jan Hoogerdijk (Eurostat - European Commission) & Claude Lamboray (Eurostat - European Commiss |
| | Exploring the use of scanner data in the Norwegian CPI for products with high churn |
| | Ragnhild Nygaard (Statistics Norway, Norway) |
| | Integration of volatile online prices into the consumer price index Christian Blaudow & Daniel Seeger (<i>Destatis</i> , Germany) |
| | Research into using alternative data sources in the production of consumer price indices |
| | Tanya Flower (Office for National Statistics (ONS), United Kingdom) |
| | Evaluating multilateral index methods on scanner data Ken Van Loon (<i>Statistics Belgium</i> , Belgium) |
| | STS02: Data integration in the European Statistical Business Registers |
| 16:00-17:00 | |
| | Chair: Ioannis Xirouchakis (Eurostat - European Commission) |
| | Organiser: Ioannis Xirouchakis (Eurostat - European Commission) Data integration methods and tools in the ESBRs |
| | Razvan Cristian Ionescu & Enrica Morganti (Eurostat - European Commission) |
| | Integration of European data about globalization into the French Statistical Business Register |
| | Olivier Haag & Isabelle Collet (National Institute of Statistics and Economic Studies (INSEE), France) |
| | A live multi-source Statistical (Business) Register |
| | Barry Coenen & John Hacking (CBS, Netherlands) |
| | Multi-source data integration with SBR Steen Joergensen & Christian Bendtsen (<i>Statistics Denmark</i> , Denmark) |
| 16:00-17:00 | CPS02: The "Geo" dimension of Official Statistics |
| | Chair: Laurent Ferrara (<i>Banque de France</i> , France) |
| | Discussant: Sofie De Broe (CBS, Netherlands) |
| | Satellite-Net: Automatic extraction of land cover indicators from satellite imagery by deep learning Eleonora Bernasconi, Francesco Pugliese, Diego Zardetto & Monica Scannapieco (<i>Istat</i> , Italy) |
| | Big data on vessel traffic: An innovative approach to nowcast trade flows in real-time Marco Marini, Serkan Arslanalp & Patrizia Tumbarello (<i>International Monetary Fund</i> , United States) |
| | Implementation of the statistical territory register Eduard Suñé, Anna Bernaus, Daniel Ibáñez, Roser Condal, Mireia Farré & Cristina Rovira (<i>Idescat, Spain</i>) |
| 17:15-18:15 | IPS03: Data exploration and visualisation G |
| 17.15 10.15 | Chair: Giuditta De Prato (JRC – European Commission) |
| | Discussant: Renato Loiero (Senote of the Republic, Italy) |
| | Human-centred machine learning through interactive visualizations: Reflections on the design of a visual analytic for criminal intelligence analysis |
| | Leishi Zhangl, William Wong & Neesha Kodagoda (<i>Middlesex University</i> , United Kingdom) |
| | Network analysis on persons for official statistics Edwin de Jonge & Jan van der Laan (<i>CBS</i> , Netherlands) |
| | ScattR – A Shiny app for exploratory data analysis Philipp Leppert (<i>Destatis</i> , Germany) |
| | Efficient screen real estate management: improving data visualization for small screens Jorge Camoes (<i>Wisevis</i> , Portugal) |
| | |
| 17:15-18:15 | STS03: Remote sensing and GIS for agriculture statistics |
| | Chair: Marjo Kasanko (Eurostat - European Commission) Discussant: Oscar Gomez Prieto (Eurostat - European Commission) |
| | Exploring and integrating data from digital farm reporting, smart surveying, crowdsourcing and Sentinels |
| | Marijn van der Velde (JRC – European Commission) |
| | Sentinel-1 coherence for agricultural statistics |
| | Kaupo Voormansik & Karlis Zalite (OÜ KappaZeta, Estonia) |

Artur Łączyński (*Statistics Poland*, Poland)

Tuesday, **12 March 2019**

| 7:15-18:15 | CPS03: Linked Open Data |
|--------------------------|--|
| | Chair: Benjamin Sakarovitch (INSEE, France) |
| | Discussant: Tanya Chetcuti (DG Informatics - European Commission) |
| | Publishing georeferenced statistical data using linked open data technologies Mirosław Migacz (<i>Statistics Poland</i> , Poland) |
| | A generic data-API for implementing GSIM: Linked Data Store Brynjar Ulva (<i>Statistics Norway</i> , Norway) |
| | Linking open data in the European Statistical System Eoin MacCuirc (<i>Central Statistics Office (CSO)</i> , Ireland) |
| | Breaking data silos and closing the semantic gap with linked open data: An example with Eurostat data ar and statistical concepts Alexander Skibinski, Sybille Luhmann, Jacopo Grazzini & Jean-Marc Museux (<i>Eurostat - European Commission</i>) |
| | |
| 3:15-19:30 | Networking cocktail Charlema |
| :00-08:00 | Warming-up, with 5k Morning Run |
| | |
| 09:00-09:45 | |
| :00-09:45 | PLEN03: Keynote |
| 9:00-09:45 | PLENO3: Keynote Speaker: Regina Nuzzo (data journalist and Professor of statistics, United States) Moderator: Emilio Di Meglio (Eurostat - European Commission) |
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| 10:00-11:00 | CPS04: Administrative data, registers and beyond | ال |
|-------------|--|----|
| | Chair: Giorgio Alleva (<i>Sapienza University of Rome</i> , Italy) Organiser: Piero Demetrio Falorsi (<i>Istat</i> , Italy) | |
| | Population statistics without a census or register | |
| | Owen Abbott (<i>ONS</i> , United Kingdom) | |
| | Building the Italian integrated system of statistical registers: Methodological and architectural solutions Piero Falorsi ¹ , Giorgio Alleva ² & Orietta Luzi ^{1 1} (<i>Istat</i> , Italy); ² (<i>Sapienza University of Rome</i> , Italy) | |
| | A bootstrap method for estimators based on combined administrative and survey data Sander Scholtus (<i>CBS</i> , Netherlands) | |
| | The EuroGroups Register Agne Bikauskaite & August Götzfried (<i>Eurostat - European Commission</i>) | |
| 11:00-11:30 | Coffee break | |
| | | _ |
| 11:30-12:30 | IPS05: Statistical and data literacy | G |
| | Chair: Britta Gauckler (Eurostat - European Commission) | |
| | Discussant: Patrizia Collesi (<i>Istat</i> , Italy) How to enlarge our audience: Attract and explain | |
| | Louise Corselli-Nordblad (Eurostat - European Commission) | |
| | On data literacy in the context of rational ignorance – Some evidence from the Eurobarometer survey Lyubomira Dimitrova (Department of Public Administration – Sofia University, Bulgaria) | |
| | Chair: Dominique Ladiray (INSEE, France) Discussant: Luca Di Gennaro (National Statistics Office, Malta) Organiser: Dominique Ladiray (INSEE, France) (In)Stability of Reg-ARIMA models for seasonal adjustment | |
| | Dominique Ladiray & Alain Quartier-la-Tente (INSEE - France) | |
| | Transition to JDemetra+ in a centralised system for seasonal adjustment: issues and benefits Francesca Tuzi, Giancarlo Bruno & Anna Ciammola (<i>Istat</i> , Italy) | |
| | Using the state-space framework of JDemetra+ in R Jean Palate (National Bank of Belgium, Belgium) | |
| | Time-varying end-of-month effects in German currency in circulation Karsten Webel & Andreas Dietrich (Deutsche Bundesbank, Germany) | |
| | CDCOE. Data linking and statistical matching | ſ |
| 11:30-12:30 | CPS05: Data linking and statistical matching Chair: Roeland Beerten (<i>Statistics Flanders</i> , Belgium) | |
| | Organiser: Faiz Alsuhail (<i>Statistics Finland</i> , Finland) | |
| | Joint distribution of income, consumption and wealth Friderike Oehler (<i>Eurostat - European Commission</i>) | |
| | Administrative data and statistical matching (EU-SILC and Microcensus environment) Alexandra Wegscheider-Pichler (<i>Statistics Austria</i> , Austria) | |
| | Statistical learning in official statistics: The case of statistical matching Marcello D'Orazio (Office of Chief Statistician – Food and Agriculture organization of the United Nations) | |
| | Integration of inconsistent data sources using Hidden Markov Models | |

Wednesday, **13 March 2019**

| 12:30-13:30 | POSTO2: Poster session: Advanced Estimation | Charlemagne building |
|-------------|--|--------------------------------|
| | On the Coefficient of Variation and its Inverse Georgia Giamloglou, Athina Maleganou, Myrto Papageorgiou, Nikolaos Farmakis (Aristotle Univ | (anity of Theoremaniki Crosse) |
| | Quantifying the development of Hungarian counties with LISREL estimation procedure during the period 19 Ildiko Ritzlne Kazimir & Klaudia Matene Bella (<i>Corvinus University Budapest</i> , Hungary) | |
| | Refugees in undeclared employment - A case study in Turkey Melina Ludolph ^{2,3} , Till Koebe ^{1,3} , Fabian Bruckschen ^{1,3} , Timo Schmid ¹ & Maria Francesca Marino ⁴ Germany); ² (<i>Humboldt Universität Berlin</i> , Germany); ³ (<i>Knuper</i> , Germany); ⁴ (<i>Universita delgi St</i> | |
| | The definition of the final disposition codes in the household surveys in the context of the system in Istat Manuela Morricone, Novella Cecconi, Rita Ranaldi (<i>Istat</i> , Italy) | |
| | Application and quality assessment of simulated geo-coordinates for regional analysis of for the Bundestag 2017 Kerstin Erfurth (EMOS Master Thesis Competition, Germany) | the parliamentary elections |
| | Modelling enterprises responses to the ICT (Information Communication Technology) surv Noémie Morénillas (INSEE – ENSAI, France) | еу |
| | Aggregating flags – A standardised and rational approach Matyas Meszaros (Eurostat - European Commission) | |
| | Seasonal and calendar adjustment of daily time series Sylwia Grudkowska (National Bank of Poland, Poland) | |
| | Estimating regional wealth in Germany: How different are west and east really? Ann-Kristin Kreutzmann ¹ , Philipp Marek ² , Nicola Salvati ³ , Timo Schmid ¹ & Sylvia Harmening ^{1, 1} Germany); ² (Deutsche Bundesbank, Germany); ³ (University of Pisa, Italy) | (Freie Universität Berlin, |
| | Estimation of the number of post-Soviet foreigners in Poland in 2015 and 2016 using cap Marcin Szymkowiak ^{1,2} & Maciej Beresewicz ^{1,2 1} (Poznan University of Economics and Business, Poznan, Poland) | |
| | Mixed mode data collection and adaptive survey design for Structure of Earnings Statistic Guy Vekeman & Pieter Vermeulen (<i>Statistics Belgium</i> , Belgium) | cs |
| | Hidden Markov Models to estimate Italian employment status Roberta Varriale, Danila Filipponi & Ugo Guarnera (<i>Istat</i> , Italy) | |
| | The Nautile project of new French master sample Pierre-Arnaud Pendoli, Sébastien Faivre, Thomas Merly-Alp, Ludovic Vincent, Clément Guillo & | Laurent Costa (INSEE, France) |
| | Using the Business Process Model and Notation (BPMN) standard for the automatisation integrated data collection systems for social surveys Josef Kytir (<i>Statistics Austria</i> , Austria) | of survey fieldwork within an |
| | Weighting adjustments using micro and macro auxiliary variables Seppo Laaksonen (<i>University of Helsinki</i> , Finland) | |
| | The effect of using new technology and Geographic Information System on the quality of Implementation of the General Palestinian Census 2017 as a case study Aya Amro & Mosab Abualhayja (<i>Palestinian Central Bureau of Statistics</i> , Palestine) | official statistics: The |
| | Adaptation of winsorization caused by weight share method Fizzala Arnaud (INSEE, France) | |
| | Alternative "optimal" calibration weights using a modified distance measure Per Gösta Andersson (Department of Statistics – Stockholm University, Sweden) | |
| | Experimental statistics from an unlikely source Laurie Reedman & Andrew Brennan (<i>StatCan</i> , Canada) | |
| | Study on using different modes as a new techniques in CAPMAS's economic census data of Said Kamal (<i>Central Agency for Public Mobilization And Statistics</i> , Egypt) | |
| | New weighting methods, including explicit correction of sampling weights for non-response reformed Belgian Labour Force Survey Camille Vanderhoeft, Astrid Depickere & Anja Termote (<i>Statistics Belgium</i> , Belgium) | se and attrition, in the |
| | Looking for immigrants in the European Labour Force Survey and the EU census: A compa figures Georgiana Ivan & Mihaela Agafitei (Eurostat - European Commission) | rison based on the 2011 |
| | Use of R for Quarterly National Accounts Julia Knoebl (<i>Statistics Austria</i> , Austria) | |

Wednesday, **13 March 2019**

| 13:30-14:15 | PLEN04: Keynote |
|-------------|--|
| | Speaker: Piyushimita Thakuriah (Rutgers University, USA) Moderator: Britta Gauckler (Eurostat - European Commission) |
| 14:30-15:30 | IPS06: Engaging with data users |
| 14.50 15.50 | Chair: Marko Kristof (CBS, Croatia) |
| | Discussant: Liza Donnelly (<i>New Yorker, CBS News and CNN</i> , USA) |
| | Targeting a wider public – Storytelling with statistical data Zsolt Czinkos (HCSO, Hungary) |
| | Citizen to Government geospatial data partnerships. What can we learn from and recommend to those working in official statistics domain? |
| | Javier Andres Carranza Torres ¹²¹ (GeoCensos Foundation, Colombia); ² (Twente University ITC faculty, Netherlands) |
| | Engaging with users to modernise the dissemination of European statistics Julia Urhausen & Maja Islam (<i>Eurostat - European Commission</i>) |
| L4:30–15:30 | STS07: Temporal disaggregation for higher frequencies data |
| 14:50-15:50 | Chair: Dario Buono (Eurostat - European Commission) |
| | Discussant: Francesca Di Iorio (University of Naples Federico II, Italy) |
| | Organiser: Fernando Reis (Eurostat - European Commission) |
| | An improved multiobjective approach of temporal disaggregation, a special case of multivariate Denton Gábor Lovics (<i>HCSO</i> , Hungary) |
| | Wikipedia online activity data for temporal disaggregation of tourism indicators Serena Signorelli ¹ & Fernando Reis ^{2 1} (Independent researcher, Italy); ² (Eurostat - European Commission) |
| | Estimation of monthly business turnover using administrative data in the UK Paul Labonne ^{1,2} & Martin Weale ^{1,2,3,1} (King's College London, United Kingdom); ² (Economic Statistics Centre of Excellent United Kingdom); ³ (Centre For Macroeconomics, United Kingdom) |
| | CPS06: Survey Design |
| 4:30-15:30 | |
| | Chair: Natalie Shlomo (University of Manchester, United Kingdom) Discussant: Cristiano Tessitore (Eurostat - European Commission) |
| | On robustness of the supervised multiclass classifier for autocoding system Yukako Toko ¹ , Shinya lijima ¹ & Mika Sato-Ilic ^{1,2,1} (<i>National Statistics Center</i> , Japan); ² (University of Tsukuba, Japan) |
| | Outlier detection methods for mixed-type and large-scale data like census Frantisek Hajnovic & Alessandra Sozzi (<i>ONS</i> , United Kingdom) |
| | Gustave – An R package for variance estimation in surveys Nicolas Paliod, Lionel Delta, Thomas Deroyon & Martin Chevalier (<i>INSEE</i> , France) |
| | optimStrat: An R package for assisting the choice of the sampling strategy Edgar Bueno (<i>Department of Statistics – Stockholm University</i> , Sweden) |
| 5:30-16:00 | Coffee Break |
| | IPS07: Lectures and award ceremony of the European Master in |
| 16:00-17:00 | IPS07: Lectures and award ceremony of the European Master in Official Statistics (EMOS) |
| | Chair: Annika Näslund (Eurostat - European Commission) |
| | Discussants: Mojca Bavdaz (University of Ljubljana, Slovenia) & Rosanna Verde (University of Campania, Italy) |
| | Organiser: Heli Lehtimaki (Eurostat - European Commission) |
| | Regional analysis of business survey: Methods and applications in the context of small area statistics Julia Manecke (University of Trier, Germany) |
| | Estimation of measurement errors in social survey Nhu Tho Ngyen (University of Leuven, Belgium) |
| | VAT Tax gap prediction: a 2-steps gradient boosting approach Giovanna Tagliaferri (<i>University of Rome</i> , Italy) |

Wednesday, **13 March 2019**

| 16:00-17:00 | STS07: Multisource statistics | MANS |
|-------------|---|---|
| | Chair: Matyas Meszaros (<i>Eurostat - European Commission</i>) Discussant: Walter Radermacher (<i>FENStatS</i> , Germany) | |
| | Assessing multi-source processes: The new total process error framework Roberta Varriale, Fabiana Rocci & Orietta Luzi (<i>Istat</i> , Italy) | |
| | Measuring the quality of multisource statistics Ton de Waal ^{1,2} , Arnout van Delden ¹ & Sander Scholtus ^{1 1} (CBS, Netherlands); ² (Tilburg University, Netherlands) | etherlands) |
| | Functional geographies through the R package LabourMarketAreas Daniela Ichim & Luisa Franconi (<i>Istat</i> , Italy) | |
| | Predictive performance of a hybrid technique for the multiple imputation of survey data Humera Razzak ¹ & Christian Heumann ^{2 1} (Ludwig-Maximilians-Universität, Germany); ² (Institute of | statistics LMU, Germany) |
| 16:00-17:00 | CPS07: Small Area Estimation | JENK |
| | Chair: Ibtissam Sahir (GOPA Luxembourg, Luxembourg) | |
| | Small area estimation for the Dutch investment survey Sabine Krieg & Joep Burger (<i>CBS</i> , Netherlands) | |
| | Measuring poverty and social exclusion by small area estimation Andrea Fasulo ¹ , Michele Dalo ¹ , Gaia Bertarelli ² , Loredana Di Consiglio ¹ , Maria Giovanna Ranalli ³ & Fi Italy); ² (University of Pisa, Italy); ³ (University of Perugia, Italy) | abrizio Solari ^{1 1} (<i>Istat,</i> |
| | Small area estimation of the LFS-based monthly unemployment rate in Poland Marcin Szymkowiak ^{1,2} , Maciej Beresewicz ^{1,2} , Tomasz Józefowski ² & Kamil Wilak ^{1,2} ¹ (Poznan University Business, Poland); ² (Statistical Office in Poznan, Poland) | ity of Economics and |
| 17:00-18:00 | PLEN05: Lectio Magistralis | GASP |
| 17.00 10.00 | Speaker: Domenico Piccolo (University of Naples Federico II, Italy) Title: A paradigm for rating data models | |
| | Moderator: Francesca Di Iorio (University of Naples Federico II, Italy) | |
| 18:15-20:00 | Guided city tour of the European Quarter | Meeting point Charlemagne Building |
| | | |
| 20:00-22:00 | Conference dinner | Berlaymont building, Piazza |

Thursday, **14 March 2019**

| 7:00-08:00 | Warming-up, with 5k Morning Run Parc du |
|------------|--|
|):00-09:45 | PLEN06: Keynote |
| 05.15 | Speaker: Emmanuel Letouzé (Data-Pop Alliance, United States) |
| | Moderator: Jacopo Grazzini (Eurostat - European Commission) |
| -11:00 | |
| | IPS08: Panel Session |
| | Demystifying artificial intelligence, big data and Internet of Things |
| | Chair: Yvo Volman (DG Communications Networks, Content and Technology – European Commission) Speakers: Diego Kuonen (Statoo Consulting & University of Geneva, Switzerland), Piet Daas (CBS, Netherland Bertolo (DG Communications Networks, Content and Technology – European Commission), Cecile Huet (DG Com Networks, Content and Technology – European Commission) |
|)-11:00 | STS08: Data collection and integration |
| | Chair: Alessandra Petrucci (University of Florence, Italy) |
| | Discussant: Eileen Capilit (GOPA Luxembourg, Luxembourg) |
| | Assessing and adjusting bias due to mixed mode in aspect of daily life survey |
| | Claudia De Vitiis, Francesca Inglese, Alessio Guandalini & Marco Dionisio Terribili (<i>Istat</i> , Italy) |
| | Centralised data collection: Process innovations and main results in business surveys Pasquale Papa, Giampaola Bellini & Francesca Monetti (<i>Istat</i> , Italy) |
| | Metadata driven monitoring of electronic data capture Mauro Bruno ¹ , Joshua Handley ² , Aaron Whitesell ² , Guido Drovandi ¹ , Milena Grassia ¹ & Paolo Giacom ¹ ¹ (Istat, I |
| | Census Bureau, United States) |
| | Mining big data for finite population inferences Siu-Ming Tam, ¹ (Australian Bureau of Statistics, Australia) |
| | |
| 11:00 | CPS08: Ensuring privacy when accessing to data |
| | Chair: Aleksandra Bujnowska (Eurostat - European Commission) |
| | Discussant: Rachel Skentelbery (ONS, United Kingdom) |
| | Privacy and data confidentiality for official statistics: New challenges and new tools Fabio Ricciato & Aleksandra Bujnowska (<i>Eurostat - European Commission</i>) |
| | Instant access to microdata |
| | Johan Heldal ¹ & Ørnulf Risnes ^{2 1} (Statistics Norway, Norway); ² (Norwegian Centre for Research Data, Norway) |
| | Perturbative methods for ESS census tables |
| | Peter-Paul de Wolf (<i>CBS</i> , Netherlands) |
| 11:30 | Coffee Break |
| 60-12:30 | IPS09: SmartStatistics4SmartCities |
| 12:50 | |
| | Chair: Martina Hahn (Eurostat - European Commission) Discussant: Teodora Brandmueller (Eurostat - European Commission) |
| | Organisers: Albrecht Wirthmann (Eurostat - European Commission) & Barteld Braamska (CBS, Netherlands) |
| | Designing urban experience with rhythm and data: Lessons from the City Rhythm Project |
| | Caroline Nevejan ¹ & Scott Cunningham ² ¹ (Municipality of Amsterdam, Netherlands); ² (Faculty of Technology, Management – Delft University of Technology, Netherlands) |
| | Urban big data as innovation platform in smart city context - Case Helsinki |
| | Ilpo Laitinen (<i>City of Helsinki</i> , Finland) A data-driven approach to urban digitalization |
| | Giuseppe Sindoni (<i>Comune di Milano</i> , Italy) |
| 12.70 | STEAD, Integrating standards for the modernization of statistics |
| -12:30 | STS09: Integrating standards for the modernisation of statistics Chair: Carlo Vaccari (<i>Istat</i> , Italy) |
| | Organisers: Marina Signore, Carlo Vaccari (<i>Istat</i> , Italy) |
| | ModernStats World: Modernising official statistics through standards and sharing |
| | |
| | Taeke Gjaltema (United Nations Economic Commission for Europe, Switzerland) |
| | |
| | Taeke Gjaltema (United Nations Economic Commission for Europe, Switzerland) Towards an integrated view of modernisation models Marina Signore (Istat, Italy) Statistics Norway and implementing ModernStats models |
| | Taeke Gjaltema (United Nations Economic Commission for Europe, Switzerland)Towards an integrated view of modernisation modelsMarina Signore (Istat, Italy) |

Thursday, **14 March 2019**

| 11:30-12:30 | CPS09: Measuring well-being | JENK |
|-------------|---|---|
| | Chair: Gaby Umbach (Globalstat, European University Institute, Italy) | |
| | Discussant: Filomena Maggino (<i>Sapienza University of Rome</i> , Italy) Organiser: Caterina Francesca Guidi (<i>European University Institute</i> , Italy) | |
| | Creating a synthetic database for research in migration and subjective well-being: | Statistical matching techniques for |
| | combining the basic and complementary questionnaires of the Hungarian Microcens Zoltán Csányi, Gergely Bagó, Anna Ligeti, Zita Ináncsi, Ferenc Urbán & Zoltán Vereczkei | sus 2016 |
| | Migrants and European welfare systems: What data tell us on their well-being and Caterina Francesca Guidi (<i>European University Institute</i> , Italy) | impact on health systems |
| | Equitable and sustainable well-being indicators for small areas Cecilia Colasanti ^{1,2} , Flavia Marzano ¹ & Clementina Villani ¹ (<i>Roma Capitale</i> , Italy); ² (<i>Ista</i> | nt, Italy) |
| | Well-being indicators for national and local policies in Italy Maria Pia Sorvillo & Stefania Taralli (<i>Istat</i> , Italy) | |
| 12:30-13:30 | Lunch | Charlemagne building |
| | | |
| 12:30-13:30 | POST03: Poster Session: New Methods & Techniques | Charlemagne building |
| | Process innovations, integrated approach and development perspectives in the impl agricultural surveys Loredana De Gaetano & Pasquale Papa (<i>Istat</i> , Italy) | lementation of data collection of |
| | Nowcasting GDP for the Baltic States: A comparative approach in support of official Dan A. Rieser (DG Economic and Financial Affairs - European Commission) | l quarterly GDP forecasts |
| | The use of metadata to manage data processing processes and the definition of da Marek Panfiłow (<i>Statistics Poland</i> , Poland) | ta validation rules |
| | Login on smartphones: A triviality? Johannes Volk (<i>Destatis</i> , Germany) | |
| | Reproducible maps for everyone Martijn Tennekes (<i>CBS</i> , Netherlands) | |
| | Using online job vacancies to create labour market intelligence Vladimir Kvetan (European Center for the Development of Vocational Training, Greece) | |
| | AnalevR: An interactive R-Based analysis platform as a service for utilizing official s Erika Siregar & Aris Prawisudatama (<i>Statistics Indonesia</i> , Indonesia) | statistics data in Indonesia |
| | Plutus – A new tool to handle metadata of seasonal adjustment Mária Pécs (HCSO, Hungary) | |
| | Semantic modeling of official statistics - The case of the Greek statistics Stamatios Theocharis (Ministry of Interior & University Of Piraeus, Greece) | |
| | GDP flash estimates for Germany Xaver Dickopf, Christian Janz & Tanja Mucha (<i>Destatis</i> , Germany) | |
| | IST - Data integration metadata driven concept Branko Josipović, Mira Nikić & Siniša Cimbaljević (Statistical Office of the Republic of Se | <i>rbia,</i> Serbia) |
| | First step towards a digital National Statistical Institute Concetta Ferruzzi, Maria Assunta Del Santo & Daniela Carbone (Istat, Italy) | |
| | A method for minimizing the residual term of the decomposable Gini index Eleni Ketzaki & Nikolaos Farmakis (Deparment of Mathematics – Aristotle University of | Thessaloniki, Greece) |
| | City users and daytime population. An approach with administrative data Roberta Vivio, Sara Casacci, Stefania Di Domenico & Maria Liria Ferraro (Istat, Italy) | |
| | App for the "Time Budget" Survey Carmen Guinea Lete & Teresa Ibarrola (Basque Statistical Office (EUSTAT), Spain) | |
| | Dwelling and Building Register - Identification of rented apartments Nofar Ben Haim (<i>Central Bureau of Statistics</i> , Israel) | |
| | CYSTAT: The road to modernisation Costas Diamantides & Charoulla Charalambous (<i>Statistical Service of Cyprus</i> , Cyprus) | |
| | The FSDA Matlab toolbox. An integrated framework to assess and apply robus Francesca Torti (JRC – European Commission) | t methods to complex datasets |
| | Sustainability, consumption, resource productivity: Regional material flow accounts M. Carme Saborit, Jordi Galter & Cristina Rovira (<i>Idescat</i> , Spain) | |
| | On the design of a reference architecture in Istat Mauro Bruno, Giuseppina Ruocco & Monica Scannapieco (<i>Istat</i> , Italy) | |
| | Design of a roadmap for implementing the CoP for the ENP south countries at ONS- Tarik Bourezgue (Office National des Statistiques, Algeria) | -Algeria |
| | COMUNIKOS: COMmunicating UNcertainty In Key Official Statistics | |
| | Dario Buono ¹ , Gian Luigi Mazzi ² , Massimiliano Marcellini ⁶ , George Kapetanios ⁴ , James M Jonge ³ , Florabela Carausu ² & Ibtissam Sahir ² ¹ (<i>European Commission, Eurostat</i>); ² (<i>GOP</i> , Netherlands); ⁴ (independent, United Kingdom); ⁵ (independent, Italy); ⁶ (independent, Ita | A Luxembourg, Luxembourg); ³ (CBS, |

Thursday, 14 March 2019

| 30-14:15 | PLEN07: Master Class GASP |
|---------------|---|
| | Speaker: Gianluca Iaccarino (Stanford University, United States) |
| | Title: Metrics for uncertainty quantification |
| | Moderator: Dario Buono (Eurostat - European Commission) |
| 50-15:30 | IPS10: Panel Session GASP |
| | Data4Policy |
| | Chair: Natalia Aristimuño Pérez (DG Informatics - European Commission) |
| | Speakers: Eduardo Barredo Capelot (Eurostat - European Commission), Yvo Volman (DG Communications Networks, Content and Technology – European Commission), Mario Mariniello (EPSC), Konstantin Pashev (DG Communications Networks, Content and Technology – European Commission) |
| L 5:30 | STS10: Machine learning in statistical production MANS |
| | Chair: Diego Kuonen (Statoo Consulting & University of Geneva, Switzerland) |
| | Discussant: Jose Cervera Ferri (<i>Devstat</i> , Spain) |
| | Organiser: Dario Buono (Eurostat - European Commission) |
| | Applying machine learning for automatic product categorization Andrea Roberson (U.S. Census Bureau, United States) |
| | Improving data validation using machine learning Christian Ruiz, Christine Ammann Tschopp, Elisabeth Kuhn, Laurent Inversin, Mehmet Aksözen & Stefan Rueber (<i>Swiss</i> <i>Federal Statistical Office</i> , Switzerland) |
| | The Innovation Lab Mauro Bruno, Gerarda Grippo & Mario Magarò (<i>Istat,</i> Italy) |
| | CPS10: Open, transparent and reproducible JENK |
| :30 | Chair: Per Nymand-Andersen (European Central Bank) |
| | Discussant: Elise Coudin (INSEE, France) |
| | Organiser: Jacopo Grazzini (<i>Eurostat - European Commission</i>) |
| | Transparency and reproducibility of models and algorithms: Examples from the UN Global Platform Joni Karanka & Joe Peskett (<i>ONS</i> , United Kingdom) |
| | Promoting reproducibility-by-design in statistical offices |
| | Sybille Luhman, Jacopo Grazzini, Fabio Ricciato, Matyas Meszaros, Konstantinos Giannakouris & Jean-Marc Museux (<i>Eurosta - European Commission</i>) |
| | Reproducible analysis with Renku |
| | Andreas Bleuler & Rok Roskar (<i>Swiss Data Science Center - ETH</i> , Switzerland) |
| 5:45 | IPS11: Big data infrastructures within NSIs GASP |
| | Chair: Michail Skaliotis (Eurostat - European Commission) |
| | Discussant: Juri Marcucci, (Bank of Italy, Italy) |
| | Organiser: Piet Daas (CBS, Netherlands) |
| | Big Data Architectures @ Istat Monica Scannapieco & Natale Renato Fazio (Istat, Italy) |
| | IT Infrastructure for a Data Science Campus Craig Pritchard (Data Science Campus – ONS, United Kingdom) |
| | |
| | IT infrastructure for big data and data science: Challenges at Statistics Netherlands Marco Puts (<i>CBS</i> , Netherlands) |
| ·16:45 | |
| L 6:45 | Marco Puts (<i>CBS</i> , Netherlands) |
| 6:45 | Marco Puts (CBS, Netherlands) STS11: Sharing data and statistical services MANS |
| ·16:45 | Marco Puts (CBS, Netherlands) STS11: Sharing data and statistical services Chair: Eduardo Barredo Capelot (Eurostat – European Commission) Data(trans)forming |

Thursday, 14 March 2019

| 45-16:45 | CPS11: Experimental Statistics | JENK |
|----------|---|------|
| | Chair: Martin Karlberg (Eurostat - European Commission) | |
| | Discussant: Jens Mehrhoff (Eurostat - European Commission) | |
| | On the operational definition of homogeneous products in transaction data Olivia Ståhl (<i>Statistics Sweden</i> , Sweden) | |
| | MARS: A method for linking barcodes and stratifying products for price index calculation Antonio Chessa (<i>CBS</i> , Netherlands) | |
| | New experimental statistics at Istat: The social mood on economy index Diego Zardetto, Cristina Fabbri, Pasquale Testa & Luca Valentino (<i>Istat</i> , Italy) | |
| | Big data: EUSTAT experience, development of the pilot project towards production Jorge Aramendi, Elena Goni, Marina Ayestaran & Javier San Vicente (<i>EUSTAT</i> , Spain) | |
| 00-17:30 | | GASP |
| 17:50 | PLEN08: Closing Speech | GASP |
| | Speaker: Kurt Vandenberghe (DG Research and Innovation, European Commission) | |
| | Title: Data needs for evidence based policy making | |
| 10.00 | Farewell with NTTS Scientific and Organising Committees | |
| 30–18:00 | | |

Friday, 15 March 2019

09:30-17:00

Satellite Event - Measuring the digital economy

Albert Borschette Congress Center

Organisers: Andreas Dollt (Eurostat - European Commission), Marianne Paasi (TU Berlin, Germany) & Christoph Maier (DG Economic and Financial Affairs – European Commission)

The objective of this satellite session is to look deeper into the various challenges of measuring GDP and productivity in an ever more digitalised economy. It will discuss if current macroeconomic statistics are still adequate in picking up the effects brought about by investment in digital tools, the consumption of free digital services, new forms of transacting in goods and services (B2B and B2C), and other phenomena associated with the digital economy.

| 09:30-10:00 | Opening session |
|-------------|--|
| | Speakers: Mary Veronica Tovšak Pleterski (<i>DG Economic and Financial Affairs – European</i> <i>Commission</i> , Director for Investment, growth and structural reforms) & John Verrinder (<i>Eurostat</i> , acting Director for macro-economic statistics) |
| 10:00-10:30 | Keynote: Conceptual and statistical challenges of measuring the digital economy Speaker: Nadim Ahmad (OECD) |
| 10:30-11:00 | Coffee break |
| 11:00-11:30 | The impact of digitalisation on growth and productivity – a UK perspective Speaker: Rebecca Riley (UK Economic Statistics Centre of Excellencei) |
| 11:30-12:00 | The digital economy from a Finnish perspective Speaker: Heli Koski (<i>Aalto University and ETLA Institute</i> , Finland) |
| 12:00-13:15 | Lunch break |
| 13:15-13:45 | Measuring and treatment of digital platforms in National Accounts – Concrete example: Measuring Airbnb in the NL |
| | Speaker: Leo Hiemstra (CBS, Netherlands) |
| 13:45-14:15 | Digitalisation: A business statistics perspective |
| | Speaker: Carsten Olsson (<i>Eurostat - European Commission,</i> Head of Unit for European Business statistics) |
| 14:15-14:45 | Mapping digitalisation: The Digital Economy and Society Index |
| | Speaker: Balazs Zorenyi (DG Communications Networks, Content and Technology – European Commission) |
| 14:45-15:15 | Coffee break |
| 15:15-15:45 | Growth, Inequality, and Redistribution in the Age of Automation |
| | Speaker: Phillipp Pfeiffer (DG Economic and Financial Affairs – European Commission) |
| 15:45-16:30 | Panel session: Measuring the digital economy: where should we improve and how do we prepare for the future |
| | Moderator: John Verrinder (Eurostat – European Commission) |
| | Panelists: Nadim Ahmad (OECD), Fabrizia Benini (DG Communications Networks, Content and Technology – European Commission), Rebecca Riley ((Economic Statistics Centre of Excellence, United Kingdom) & Werner Röger |
| | (DG Economic and Financial Affairs – European Commission) |
| 16:30-16:45 | Closing session John Verrinder (Eurostat - European Commission) |

Friday, 15 March 2019

09:30-13:00

Satellite Event - Main findings and looking forward

JENK

Organisers: Fabio Bacchini (Istat, Italy) & Monica Pratesi (Univeristy of Pisa, Italy)

MAKing Sustainable development and WELL-being frameworks work for policy analysis (MAKSWELL) is a project financed in H2020. MAKSWELL aims to extend and harmonize indicators able to capture the main characteristics of the 'Beyond GDP' approach proposing a new framework that includes them in the evaluation of the public policies.

At the same time MAKSWELL improves the existing well-being and sustainable indicators by using new data collection tools and modern statistical methods to have timely and accurate data and by combining new data sources (big data) with traditional ones especially where there are data gaps. The production of local estimates of poverty and living conditions are an example of these objectives. At a macro level the project provides a framework that include specific measures for well-being in the traditional macro econometric models. The project explores also the relationship among well-being and sustainable indicators with policy evaluation.

Scope of the satellite event is to disseminate the research results of the project, encouraging the floor discussion on them, sharing the research experiences and promoting interactive discussions with invited keynote speakers.

The discussion will be on the research results on monitoring of Sustainable Development Goals, their indicators at regional level using non-traditional data sources and nowcasting.

Other particular issues will be tackled by specific paper presentation of MAKSWELL members.

Participants will be invited to discuss the experiments done by the partners, challenges and opportunities of new sources, frameworks and methods for official statistics that aim to provide innovative policy support frameworks in "Beyond GDP" perspective.





NTTS 2019 Scientific Committees

Eduardo Barredo Capelot (European Commission - Eurostat), chair Emanuele Baldacci (European Commission - DG Informatics) Dario Buono (European Commission - Eurostat) Piet Daas (Statistics Netherlands) Francesca Di Iorio (University of Naples Federico II) Jacopo Grazzini (European Commission - Eurostat) Duncan Elliott (Office for National Statistics, UK) Boro Nikic (Statistical Office of the Republic of Slovenia) Rebecca Killick (Lancaster University) Diego Kuonen (Statoo Consulting & University of Geneva) Alexander Kowarik (Statistics Austria) Christoph Maier (European Commission – DG Economic and Financial Affairs) Marianne Paasi (formerly European Commission – DG Research and Innovation) Monica Pratesi (University of Pisa) Giuditta de Prato (European Commission - IPTS) Natalie Shlomo (University of Manchester) Marina Signore (Italian National Institute of Statistics) Piyushimita Thakuriah (Rutgers University, USA) Yvo Volman (European Commission – DG Communications Networks, Content and Technology)

NTTS 2019 Organising Committee

Martina Hahn (European Commission - Eurostat), chair Dario Buono (European Commission - Eurostat), programme & networking Britta Gauckler (European Commission - Eurostat), logistics Maria Serfioti (European Commission - Eurostat), social media & twitter wall Maribel Lazaro (European Commission - Eurostat), international relations

Conference on New Techniques and Technologies for official Statistics (NTTS 2019)

'New Techniques and Technologies for Statistics' (NTTS) is an international biennial scientific conference series organised by Eurostat on new techniques and methods for official statistics, and the impact of new technologies on statistical collection, production and dissemination systems. **NTTS 2019** (the 10th edition of the NTTS series) will take place in **Brussels from 12-14 of March 2019**, with satellite events on the 11 and 15 of March. The purpose of NTTS conferences is both to allow the presentation of results from currently on-going research and innovation projects in official statistics and to stimulate and facilitate the preparation of new innovative projects, with the aim of improving and enhancing the quality and usefulness of official statistics, as well as to prepare activities related to research in statistics. The target audience includes the official statistics R&D community at large: colleagues from statistical institutes, academia, European institutions and actors from the private sphere.

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NTTS 2019 at a glance

