

**62<sup>nd</sup> ISI World Statistics Congress 2019 (ISI WSC 2019)**  
**18 – 23 August 2019 in Kuala Lumpur, Malaysia**  
**Special Topic Sessions (STS) Programme Schedule**

| DAY              | TIME                | STS#    | SESSION TITLE   | ORGANISER / ORGANISATION                                    | NAME/ORGANISATION, TOPIC  |
|------------------|---------------------|---------|---|---|---|
| 23RD AUGUST 2019 | 10.30 AM - 12.30 PM | STS-339 | QUALITY ASSURANCE FRAMEWORK WITHIN THE ENTRY POINT OF STATISTICAL OFFICE : STATISTICAL BUSINESS REGISTER AND STATISTICAL ADDRESS REGISTER | ZURAI DY ZAINAL ABIDIN,<br>DEPARTMENT OF STATISTIC MALAYSIA | <b>MUHAMMAD AMRI IDRIS,</b><br><b>DEPARTMENT OF STATISTICS MALAYSIA,</b><br><b>STATE OF SELANGOR</b><br><br>TOPIC: DATABASE LINKAGE IN ENSURING QUALITY OF MALAYSIA STATISTICAL BUSINESS REGISTER   |
|                  |                     |         |   |   | <b>SHARUDDIN SHAFIE,</b><br><b>DEPARTMENT OF STATISTICS MALAYSIA,</b><br><b>STATE OF TERENGGANU</b><br><br>TOPIC: STATISTICAL ADDRESS REGISTER (SAR)  |
|                  |                     |         |   |   | <b>TAKASHI IOKA,</b><br><b>STATISTICS PRODUCTION SUPPORT DIVISION OF THE STATISTICS BUREAU, JAPAN</b><br><br>TOPIC: QUALITY ASSURANCE FRAMEWORK OF THE JAPANESE BUSINESS REGISTER                   |
|                  |                     |         |   |   | <b>JOHAN LAMMERS,</b><br><b>STATISTICS NETHERLANDS</b><br><br>TOPIC: BUSINESS REGISTERS AS THE BACKBONE OF STATISTICS; CHALLENGES AND OPPORTUNITIES REGARDING BUSINESS REGISTER AND OUTCOME QUALITY |
|                  |                     |         |   |   | DISCUSSANT: <b>WAN MOHD SHAHRULNIZAM BIN WAN MOHD NAJURI,</b><br><b>DEPARTMENT OF STATISTICS MALAYSIA,</b><br><b>STATE OF JOHOR</b>   |

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| 19TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-346 | DETECTION AND HANDLING OF OUTLIERS IN BIG DATA   | RAHMATULLAH IMON,<br>BALL STATE UNIVERSITY, USA      | <b>IMON RAHMATULLAH,</b><br><b>BALL STATE UNIVERSITY, USA</b><br><br>TOPIC: IDENTIFICATION OF MULTIPLE UNUSUAL OBSERVATIONS IN SPATIAL REGRESSION                                     |
|                  |                     |         |  |  | <b>ABU SAYED MD. AL MAMUN,</b><br><b>UNIVERSITY OF RAJSHAHI, BANGLADESH</b><br><br>TOPIC: IDENTIFICATION OF HIGH LEVERAGE POINTS IN LINEAR FUNCTIONAL RELATIONSHIP MODEL FOR BIG DATA |
|                  |                     |         |  |  | <b>NOORA NIDHAL SALEH,</b><br><b>UNIVERSITY OF AL-QADISIYAH</b><br><br>TOPIC: CLASSIFICATION OF BRITISH RAINFALL REGIONS BASED ON SPATIAL DISTANCES                                   |
|                  |                     |         |  |  | <b>YONG ZULINA ZUBAIRI,</b><br><b>UNIVERSITY OF MALAYA</b><br><br>TOPIC: OUTLIER DETECTION METHOD IN CIRCULAR DATA  |
| 23RD AUGUST 2019 | 2.15 PM - 3.55 PM   | STS-353 | CHALLENGES AND SOLUTIONS IN ACCELERATED FAILURE TIME (AFT) MODELS FOR TIMETOEVENT DATA ANALYSIS AND PUBLIC HEALTH APPLICATIONS | DIN CHEN,<br>UNIVERSITY OF NORTH CAROLINACHAPEL HILL | <b>XINGQIU ZHAO,</b><br><b>THE HK POLYTECHNIC UNIVERSITY</b><br><br>TOPIC: SUBGROUP ANALYSIS IN CENSORED LINEAR REGRESSION  |

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|                  |                     |         |  |  | <p><b>YANYAN LIU,</b><br/><b>WUHAN UNIVERSITY</b></p> <p>TOPIC: MODEL PURSUIT AND VARIABLE SELECTION IN THE ADDITIVE ACCELERATED FAILURE TIME MODEL</p>   |
|                  |                     |         |  |  | <p><b>HUI ZHAO,</b><br/><b>CHINA CENTRAL NORMAL UNIVERSITY</b></p> <p>TOPIC: REGRESSION ANALYSIS OF CLUSTERED INTERVAL-CENSORED FAILURE TIME DATA WITH LINEAR TRANSFORMATION MODELS IN THE PRESENCE OF INFORMATIVE CLUSTER SIZE</p> |
|                  |                     |         |  |  | <p>DISCUSSANT: <b>DIN CHEN,</b><br/><b>UNIVERSITY OF NORTH CAROLINA-CHAPEL HILL</b></p>   |
| 22ND AUGUST 2019 | 10.30 AM - 12.30 PM | STS-364 | METHODOLOGY OF STATISTICAL OBSERVATION AND ANALYSIS OF INFORMAL EMPLOYMENT | ELENA ZAROVA,<br>ANALYTICAL CENTRE BY<br>MOSCOW CITY<br>GOVERNMENT | <p><b>SERGEY MUSIKHIN, ANALYTICAL CENTRE BY<br/>GOVERNMENT OF MOSCOW</b></p> <p>TOPIC: SUGGESTIONS FOR IMPROVING THE METHODOLOGY FOR ESTIMATING INFORMAL EMPLOYMENT BASED ON A SAMPLE SURVEY OF THE LABOUR FORCE</p>                |
|                  |                     |         |  |  | <p><b>MARIA FROLOVA, TOGLIATTI ACADEMY OF<br/>MANAGEMENT</b></p> <p>TOPIC: COMPARATIVE ANALYSIS OF METHODOLOGIES USED FOR COLLECTING DATA ON FORMAL AND INFORMAL EMPLOYMENT AND TERTIARY EDUCATION EFFICIENCY</p>                   |

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|                  |                   |         |  |   | <p><b>KONSTANTIN LAYKAM,</b><br/> <b>FEDERAL STATE STATISTICS SERVICE, RUSSIA</b></p> <p>TOPIC: METHODOLOGY FOR ASSESSING INFORMAL EMPLOYMENT BASED ON INFORMATION SOURCES WITH DIFFERENT LEVELS OF TRUST</p> <p><b>TAISIYA BOYKOVA, ANALYTICAL CENTRE BY GOVERNMENT OF MOSCOW</b></p> <p>TOPIC: INCREASING THE TRANSPARENCY OF DATA ON INFORMAL EMPLOYMENT</p> <p><b>POLINA VICTOROVNA KRIUCHKOVA, MOSCOW GOVERNMENT</b></p> <p>TOPIC: TBU</p> <p>DISCUSSANT 1: <b>PAUL SMELOV,</b><br/> <b>PLEKHANOV RUSSIAN UNIVERSITY OF ECONOMICS</b></p> <p>DISCUSSANT 2: <b>ELVIRA DUBRAVSKAYA,</b><br/> <b>ANALYTICAL CENTRE BY MOSCOW CITY GOVERNMENT</b></p> |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-384 | IMPROVING STATISTICAL LITERACY IN A DIGITAL AGE: CHALLENGES FOR DEVELOPING COUNTRIES | STEVE MACFEELY,<br>UNITED NATION<br>CONFERENCE FOR TRADE<br>AND DEVELOPMENT | <p><b>TERESITA EVELINA TERÁN,</b><br/> <b>FACULTY OF VETERINARY SCIENCES,</b><br/> <b>UNIVERSIDAD NACIONAL DE ROSARIO- ARGENTINA</b></p> <p>TOPIC: STATISTICAL LITERACY IN THE DIGITAL AGE IN ARGENTINA</p>  |

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|                  |                   |         |  |                          | <p><b>PALI JOBO LEHOHLA,</b><br/> <b>UNIVERSITY OF JOHANNESBURG</b><br/>           TOPIC: THE ELEPHANT IN THE CLOUD</p>  |
|                  |                   |         |  |                          | <p><b>HAISHAN FU,</b><br/> <b>WORLD BANK</b><br/>           TOPIC: TBU</p>   |
| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM | STS-407 | THE AGRICULTURAL CENSUS AS A COMPONENT OF AN INTEGRATED STATISTICAL SYSTEM | JAIRO CASTANO,<br>FAO    | <p><b>JAIRO CASTANO,</b><br/> <b>FAO</b><br/>           TOPIC: INTEGRATING AGRICULTURAL CENSUSES AND SURVEYS FOR OPTIMAL SECTORAL DATA COLLECTION</p>  |
|                  |                   |         |  |                          | <p><b>MINERVA ESQUIVIAS ELOISA, PHILIPPINE STATISTICS AUTHORITY</b><br/>           TOPIC: THE PHILIPPINE CENSUS OF AGRICULTURE AND FISHERIES AS PART OF THE INTEGRATED AGRICULTURAL STATISTICAL SYSTEM</p>         |
|                  |                   |         |  |                          | <p><b>ERIC RANCOURT, STATISTICS CANADA</b><br/>           TOPIC: THE INTEGRATION OF THE CENSUS OF AGRICULTURE WITH THE BUSINESS STATISTICS PROGRAM: THE KEYSTONE FOR THE NEXT GENERATION OF CENSUSES IN CANADA</p> |

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| 23RD AUGUST 2019 | 10.30 AM - 12.30 PM | STS-408 | APPLICATION OF STATISTICS AND MACHINE LEARNING TOOLS IN FINANCE AND ACCOUNTING | KULDEEP KUMAR,<br>BOND UNIVERSITY | <b>ARVIND SHRIVASTAVA,</b><br><b>RESERVE BANK OF INDIA</b><br><br>TOPIC: TRADE CREDIT – AN EMPIRICAL ANALYSIS OF INDIAN FIRMS            |
|                  |                     |         |  |                                   | <b>KHALED HALTEH,</b><br><b>BOND UNIVERSITY</b><br><br>TOPIC: INDUSTRY SPECIFIC FINANCIAL DISTRESS PREDICTION MODEL                      |
|                  |                     |         |  |                                   | <b>MILIND TIWARI,</b><br><b>BOND UNIVERSITY</b><br><br>TOPIC: SHELL COMPANIES: IDENTIFICATION OF AN INSTRUMENT USED FOR ILLICIT PURPOSES |
|                  |                     |         |  |                                   | <b>SNEHA RAUT,</b><br><b>BOND UNIVERSITY</b><br><br>TOPIC: FINANCIAL SOUNDNESS PREDICTION: A STUDY OF REAL ESTATE IN AUSTRALIA           |
|                  |                     |         |  |                                   | <b>SUKANTO BHATTACHARYA,</b><br><b>DEAKIN UNIVERSITY</b><br><br>TOPIC: TBU   |
|                  |                     |         |  |                                   | DISCUSSANT 1: <b>GRACE MUI,</b><br><b>THYE AND ASSOCIATE, MALAYSIA</b>   |
|                  |                     |         |  |                                   | DISCUSSANT 2: <b>NITIN KUMAR,</b><br><b>RESERVE BANK OF INDIA</b>  |

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| 23RD AUGUST 2019 | 10.30 AM - 12.30 PM | STS-410 | RECENT DEVELOPMENT OF DIRECTIONAL STATISTICS WITH APPLICATION | IBRAHIM BIN MOHAMED,<br>UNIVERSITY OF MALAYA,<br>KUALA LUMPUR,<br>MALAYSIA | <b>IBRAHIM BIN MOHAMED, UNIVERSITY OF MALAYA</b><br>TOPIC: THE STUDY ON THE RELATIONSHIP BETWEEN VARIABLES IN MALAYSIAN CRESCENT MOON SIGHTING DATA  |
|                  |                     |         |   |  | <b>SREENIVAS RAO JAMMALAMADAKA, UNIVERSITY OF CALIFORNIA SANTA BARBARA, USA</b><br>TOPIC: A GENERAL APPROACH TO OBTAINING WRAPPED CIRCULAR DISTRIBUTIONS   |
|                  |                     |         |   |  | <b>KUNIO SHIMIZU, INSTITUTE OF STATISTICAL MATHEMATICS, TOKYO, JAPAN</b><br>TOPIC: A CONTINUOUS BIVARIATE CIRCULAR DISTRIBUTION AND ITS DISCRETIZATION   |
|                  |                     |         |   |  | <b>ABDUL GHAPOR HUSSIN, NATIONAL DEFENCE UNIVERSITY OF MALAYSIA, KUALA LUMPUR</b><br>TOPIC: A CLUSTERING TECHNIQUE FOR OUTLIERS DETECTION IN LINEAR FUNCTIONAL RELATIONSHIP MODEL FOR CIRCULAR VARIABLES |
|                  |                     |         |   |  | <b>ADZHAR BIN RAMBLI, MARA UNVIERSITY OF TECHNOLOGY</b><br>TOPIC: A NEW HALF-CIRCULAR DISTRIBUTION ON A CIRCLE   |

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| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM   | STS-416 | THE GROWING OF ISLAMIC FINANCE AND INCREASING GLOBAL DEMAND: HOW TO MEASURE                 | FARIZA KAMBUT,<br>DOSM                                  | <b>SUSWANDI,</b><br><b>BADAN PUSAT STATISTIK, INDONESIA (BPS)</b><br><br>TOPIC: TBU   |
|                  |                     |         |   |   | <b>RAGHEED IMAN MOGHRABI,</b><br><b>RAFIK HARIRI UNIVERSITY, LEBANON</b><br><br>TOPIC: TBU  |
|                  |                     |         |   |   | DISCUSSANT 1: <b>MOHAMMAD SALIM AL MAMUN,</b><br><b>ISLAMIC FINANCIAL SERVICES BOARD (IFSB)</b>   |
|                  |                     |         |   |   | DISCUSSANT 2: <b>OMAR HAKOUZ,</b><br><b>UNITED NATIONS ECONOMIC &amp; SOCIAL COMMISSION FOR WESTERN ASIA (UNESCWA)</b>  |
| 22ND AUGUST 2019 | 10.30 AM - 12.30 PM | STS-419 | ISLAMIC FINANCE: HARNESSING DATA ANALYTICS IN ADVANCING RISKSHARING AND SUSTAINABLE FINANCE | HAMIM SYHRUM AHMAD MOKHTAR,<br>CENTRAL BANK OF MALAYSIA | <b>LIZA MYDIN,</b><br><b>MAYBANK ISLAMIC</b><br><br>TOPIC: USE OF BIG DATA ANALYTICS IN TARGETING RIGHT CUSTOMERS FOR SUSTAINABLE AND SOCIAL FINANCE (CASH WAQF)  |
|                  |                     |         |   |   | <b>ZURAEDA IBRAHIM,</b><br><b>UNIVERSITY TECHNOLOGY MARA (UITM)</b><br><br>TOPIC: INVESTMENT ACCOUNT (RISK SHARING PRODUCT) IN ISLAMIC BANKING: ANALYSIS OF PERCEPTIONS AND BEHAVIOURS OF CORPORATE & RETAIL CONSUMERS USING STRUCTURAL EQUATION MODELING |



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|                  |                   |         |   |  | <p><b>GABRIEL KARARGERGIU, ARABESQUE</b><br/>           TOPIC: INTEGRATED ESG PRINCIPLES AND BIG DATA ANALYTICS IN SELECTING SUSTAINABLE ISLAMIC STOCKS</p> <p><b>ADRIANA KOCORNIK-MINA, GLOBAL ALLIANCE ON BANKING ON VALUES</b><br/>           TOPIC: VALUE-BASED SCORECARD FOR ISLAMIC BANKING INSTITUTIONS AS MONITORING TOOLS FOR IMPACT CREATION</p> <p>DISCUSSANT : <b>AZRIE TAMJIS, CENTRAL BANK OF MALAYSIA</b></p> |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-420 | LEVERAGING ON DATA TO IMPROVE PAYMENT PRODUCTS AND SERVICES | JAYSON POON,<br>BANK NEGARA MALAYSIA       | <p><b>KLYMENT WONG, WECHAT PAY MALAYSIA SDN. BHD.</b><br/>           TOPIC: AGE OF PERSON CREDIT SCORE</p> <p><b>ADRIAN BURTON, ADA (ANALYTICS, DATA, ADVERTISING), AXIATA DIGITAL SERVICES</b><br/>           TOPIC: LEVERAGING ON DATA &amp; ANALYTICS TO IMPROVE THE ADOPTION OF E-WALLET AND FINANCIAL SERVICES</p>  |
| 19TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-422 | INNOVATIVE APPROACHES IN MEASURING FINANCIAL INCLUSION      | ZARINA ABD RAHMAN,<br>BANK NEGARA MALAYSIA | <p><b>ZARINA ABD RAHMAN, BANK NEGARA MALAYSIA</b><br/>           TOPIC: STATE OF FINANCIAL INCLUSION IN MALAYSIA</p>   |

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|                  |                   |         |  |                             | <p><b>DAMOLA OWOLADE,</b><br/><b>INSIGHT 2 IMPACT</b></p> <p>TOPIC: LINKING ADMINISTRATIVE AND SURVEY DATA TO MEASURE FINANCIAL INCLUSION</p>  |
|                  |                   |         |  |                             | <p><b>ROBIN GRAVESTEIJN,</b><br/><b>UNCDF</b></p> <p>TOPIC: USING BIG DATA TO ADVANCE WOMEN'S FINANCIAL INCLUSION: EXAMINING CUSTOMER JOURNEYS AT FINANCIAL INSTITUTIONS IN CAMBODIA</p>                       |
|                  |                   |         |  |                             | <p>DISCUSSANT: <b>LUIS TREVINO,</b><br/><b>AFI</b></p>   |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-423 | MODERNISATION OF AGRICULTURAL STATISTICS | JOHAN SELENIUS,<br>EUROSTAT | <p><b>YLVA ANDRIST RANGEL,</b><br/><b>STATISTICS SWEDEN</b></p> <p>TOPIC: NEW TOOLS FOR DATA COLLECTION IN SWEDISH SURVEYS ON USE OF FERTILISERS AND ANIMAL MANURE AND CULTIVATION MEASURES IN AGRICULTURE</p> |
|                  |                   |         |  |                             | <p><b>CHRISTINE WIRTZ,</b><br/><b>EUROSTAT</b></p> <p>TOPIC: THE ROLE OF EUROSTAT IN MODERNIZING AGRICULTURAL STATISTICS</p>   |

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|                  |                   |         |   |  | <p><b>FRANCESCO TUBIELLO,</b><br/><b>FAO</b></p> <p>TOPIC: REMOTE SENSING AND GEOSPATIAL TECHNOLOGY IN MEASURING AND MONITORING OF AGRO-ENVIRONMENTAL INDICATORS FOR SUSTAINABLE AGRICULTURE</p> |
|                  |                   |         |   |  | <p><b>HUBERT HAMER,</b><br/><b>NATIONAL AGRICULTURAL STATISTICS SERVICE,</b><br/><b>USA</b></p> <p>TOPIC: GEOSPATIAL TOOLS FOR ACREAGE ESTIMATION AND DISASTER ASSESSMENT</p>                    |
| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-425 | RECENT ADVANCES IN STOCHASTIC MODELLING WITH APPLICATION IN BUSINESS AND INDUSTRY | ARIFAH BAHAR,<br>UNIVERSITI TEKNOLOGI MALAYSIA | <p><b>ARIFAH BAHAR,</b><br/><b>UNIVERSITI TEKNOLOGI MALAYSIA</b></p> <p>TOPIC: MODELING LONG MEMORY STOCHASTIC VOLATILITY OF CRUDE PALM OIL PRICE</p>  |
|                  |                   |         |   |  | <p><b>NURIRI AWAN NURIRI AWAN, INSTITUT TEKNOLOGI SEPULUH NOPEMBER, SURABAYA, INDONESIA</b></p> <p>TOPIC: ON MONITORING STOCK PRICE MOVEMENTS USING MARKOV SWITCHING MODEL</p>                   |

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|                  |                     |         |  |  | <p><b>ZAITUL MARLIZAWATI ZAINUDDIN,</b><br/> <b>UTM-CENTRE FOR INDUSTRIAL AND APPLIED MATHEMATICS, UNIVERSITI TEKNOLOGI MALAYSIA</b></p> <p>TOPIC: TWO-STAGE STOCHASTIC PROGRAMMING APPROACH FOR OIL REFINERY PRODUCTION PLANNING</p> |
|                  |                     |         |  |  | <p>DISCUSSANT: <b>NORHAIZA AHMAD,</b><br/> <b>UNIVERSITI TEKNOLOGI MALAYSIA</b></p>   |
| 20TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-426 | STATISTICAL SOLUTION OF ASTROPHYSICAL PROBLEMS | ASIS KUMAR CHATTOPADHYAY, UNIVERSITY OF CALCUTTA | <p><b>ASIS KUMAR CHATTOPADHYAY, UNIVERSITY OF CALCUTTA, INDIA</b></p> <p>TOPIC: CLUSTERING AND CLASSIFICATION OF ASTRONOMICAL OBJECTS : A NEW PARADIGM IN STATISTICS</p>  |
|                  |                     |         |  |  | <p><b>AYANENDRA NATH BASU,</b><br/> <b>INDIAN STATISTICAL INSTITUTE, KOLKATA</b></p> <p>TOPIC: ROBUST ESTIMATION AND OUTLIER DETECTION FOR ASTRONOMICAL DATA</p>  |
|                  |                     |         |  |  | <p><b>TANUKA CHATTOPADHYAY,</b><br/> <b>UNIVERSITY OF CALCUTTA, INDIA</b></p> <p>TOPIC: STUDY ON STAR FORMATION HISTORY OF NEARBY GALAXIES A BAYESIAN APPROACH</p>  |

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|                  |                   |         |   |   | <p><b>DIDIER FRAIX-BURNET,</b><br/> <b>UNIVERSITY GRENOBLE ALPES</b><br/>           TOPIC: UNSUPERVISED CLASSIFICATION OF GALAXY SPECTRA AND INTERPRETABILITY</p> <p><b>GUILLAUME BELANGER,</b><br/> <b>EUROPEAN SPACE AGENCY (ESAC)</b><br/>           TOPIC: A STATISTICALLY ROBUST APPROACH TO THE DETECTION OF ASTROPHYSICAL TRANSIENT AND PERIODIC PHENOMENA</p>  |
| 23RD AUGUST 2019 | 2.15 PM - 3.55 PM | STS-427 | BAYESIAN COMPUTATION METHODS AND INFERENCE FOR DIFFERENTIAL EQUATION MODELS | JAEYONG LEE,<br>SEOUL NATIONAL UNIVERSITY | <p><b>SARAT C. DASS,</b><br/> <b>UNIVERSITI TEKNOLOGI PETRONAS</b><br/>           TOPIC: LAPLACE APPROXIMATED POSTERIOR INFERENCE FOR THE SEIR DIFFERENTIAL EQUATION MODEL</p> <p><b>MUHAMMAD JAVVAD UR REHMAN, UNIVERSITI TEKNOLOGI PETRONAS</b><br/>           TOPIC: EMBEDDED ESTIMATION SEQUENTIAL BAYES LEARNING PROCEDURES IN NONLINEAR NON-GAUSSIAN SYSTEM</p> <p><b>KYOUNGJAE LEE, UNIVERSITY OF NOTRE DAME</b><br/>           TOPIC: INFERENCE FOR THE SEIR DIFFERENTIAL EQUATION MODELS USING RELAXED DIFFERENTIAL EQUATION MODELS</p> <p>DISCUSSANT: <b>SEONGIL JO, CHONBUK NATIONAL UNIVERSITY</b></p> |

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| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM | STS-429 | GREEN ECONOMY AND GREEN JOBS: TOURISM SUSTAINABILITY AND THE ISSUE OF MEASUREMENT | IGOR CHERNYSHEV, GJASD INTERNATIONAL (GREEN JOBS AND SUSTAINABLE DEVELOPMENT INTERNATIONAL CENTRE) | <b>MARGARITA ROHR, UNIVERSITY OF VALENCIA</b><br>TOPIC: GREEN ECONOMY: A CONCEPTUAL OVERVIEW  |
|                  |                   |         |   |  | <b>CATHERINE SAGET, ILO</b><br>TOPIC: GREENING WITH JOBS  |
|                  |                   |         |   |  | <b>VALENTINA STOEVSKA, ILO</b><br>TOPIC: STATISTICAL DEFINITION OF EMPLOYMENT IN THE ENVIRONMENTAL SECTOR AND GREEN JOBS: THEORY AND PRACTICE |
|                  |                   |         |   |  | <b>FLORABELA CARASU, GOPA LUXEMBOURG S.A.R.L</b><br>TOPIC: SUSTAINABLE GRASSROOTS TOURISM THROUGH GREEN JOBS: MEASUREMENT ISSUES              |
| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM | STS-430 | RECENT ADVANCES IN FUNCTIONAL AND HIGH DIMENSIONAL STATISTICAL METHODS            | ANIRVAN CHAKRABORTY, IISER KOLKATA   | <b>ANIRVAN CHAKRABORTY, IISER KOLKATA</b><br>TOPIC: WHAT IS THE DIMENSION OF A STOCHASTIC PROCESS?  |
|                  |                   |         |   |  | <b>JEAN-MICHEL LOUBES, INSTITUT DE MATHEMATIQUES DE TOULOUSE, FRANCE</b><br>TOPIC: DISTRIBUTION'S TEMPLATE ESTIMATE WITH WASSERSTEIN METRICS  |

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|                  |                     |         |  |  | <p><b>ZHENHUA LIN, DEPARTMENT OF STATISTICS, UNIVERSITY OF CALIFORNIA - DAVIS, CALIFORNIA, UNITED STATES OF AMERICA</b></p> <p>TOPIC: A MULTIPLIER BOOTSTRAP APPROACH TO ONE-WAY ANOVA FOR FUNCTIONAL DATA</p> |
|                  |                     |         |  |  | <p><b>ANIL K. GHOSH, INDIAN STATISTICAL INSTITUTE</b></p> <p>TOPIC: PERFECT CLUSTERING OF HIGH DIMENSIONAL DATA</p>  |
| 20TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-433 | STATISTICAL MODELS FOR EVALUATING ENVIRONMENTAL POLLUTION IN NIGERIA | OLALEKAN KAZEEM OBISESAN, UNIVERSITY OF IBADAN | <p><b>OLALEKAN KAZEEM OBISESAN, UNIVERSITY OF IBADAN</b></p> <p>TOPIC: EXTREME VALUE MODELLING WITH RAINFALL DISTRIBUTION</p>  |
|                  |                     |         |  |  | <p><b>JOHNSON FUNMINIYI OJO, UNIVERSITY OF IBADAN</b></p> <p>TOPIC: MODELLING VEHICULAR EMISSION IN NIGERIA</p>  |
|                  |                     |         |  |  | <p><b>OLAWALE BASHEER AKANBI, UNIVERSITY OF IBADAN</b></p> <p>TOPIC: MODELLING PREVALENCE OF ENVIRONMENTAL HEALTH DISEASE AMONG UNDERGRADUATE STUDENTS OF THE UNIVERSITY OF IBADAN, NIGERIA: A ML APPROACH</p> |

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|                  |                     |         |  |                                       | <p><b>EBUN ADEGBOLA DOSUMU,</b><br/><b>UNIVERSITY OF IBADAN</b></p> <p>TOPIC: CHANGEPOINT ANALYSIS OF RAINFALL AMOUNT ACROSS CLIMATIC ZONES IN NIGERIA</p>             |
|                  |                     |         |  |                                       | <p><b>OLUWASEUN AYOBAMI ADESINA,</b><br/><b>THE POLYTECHNIC, IBADAN</b></p> <p>TOPIC: MULTIVARIATE MODELLING OF WATER QUALITY PARAMETERS IN NIGERIA</p>                |
| 23RD AUGUST 2019 | 10.30 AM - 12.30 PM | STS-436 | RECORD VALUE THEORIES AND THEIR APPLICATIONS | MOHAMMAD AHSANULLAH, RIDER UNIVERSITY | <p><b>GANE SAMB LO,</b><br/><b>GASTON BERGER UNIVERSITY, SENEGAL</b></p> <p>TOPIC: TRENDS ON GENERAL THEORY ON RECORDS AND ON OPEN QUESTIONS</p>                       |
|                  |                     |         |  |                                       | <p><b>MOHAMMAD Z RAQAB,</b><br/><b>UNIVERSITY OF JORDAN, JORDAN</b></p> <p>TOPIC: INFERENCE FOR THE TWO-PARAMETER BATHTUB-SHAPED DISTRIBUTION BASED ON RECORD DATA</p> |
|                  |                     |         |  |                                       | <p><b>ISMIHAN BAYRAMOGLU,</b><br/><b>ISMIR UNIVERSITY OF ECONOMICS, TURKEY</b></p> <p>TOPIC: TBU</p>   |
|                  |                     |         |  |                                       | <p>DISCUSSANT 1: <b>DIAM BA,</b><br/><b>GASTON BERGER UNIVERSITY, SENEGAL</b></p>  |
|                  |                     |         |  |                                       | <p>DISCUSSANT 2: <b>MOHAMMAD SHAKIL, MIAMI DADE COLLEGE, USA</b></p>   |



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| 22ND AUGUST 2019 | 2.00 PM - 3.40 PM | STS-437 | STATISTICS AND DATA SCIENCE TO SOLVE PROBLEMS IN SOUTH EAST ASIA | HARTONO SUHARTONO,<br>INSTITUT TEKNOLOGI SEPULUH NOPEMBER           | <b>HARTONO SUHARTONO,<br/>INSTITUT TEKNOLOGI SEPULUH NOPEMBER</b><br><br>TOPIC: FORECASTING INFLOW AND OUTFLOW IN INDONESIA USING STATISTICAL METHOD AND MACHINE LEARNING |
|                  |                   |         |  |   | <b>HERI KUSWANTO,<br/>INSTITUT TEKNOLOGI SEPULUH NOPEMBER</b><br><br>TOPIC: TIME SERIES BASED CLUSTERING OF CLIMATE ZONE IN INDONESIA USING TRMM SATELITE DATA            |
|                  |                   |         |  |   | <b>YUSRINA ANDU,<br/>UNIVERSITI MALAYSIA KELANTAN</b><br><br>TOPIC: NON-TRANSFORMED DIMENSIONALITY REDUCTION ON MONTHLY AGRICULTURE STOCK MARKET PRICE                    |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-441 | GENERATING NEW INSIGHTS BY USING AND LINKING MICRO DATA SETS     | BRUNO TISSOT,<br>BANK FOR INTERNATIONAL SETTLEMENTS,<br>SWITZERLAND | <b>PATRICK WEBER,<br/>DEUTSCHE BUNDESBANK</b><br><br>TOPIC: THE FIRE-SALE CHANNELS OF UNIVERSAL BANKS IN THE EUROPEAN SOVEREIGN DEBT CRISIS                               |
|                  |                   |         |  |   | <b>ANDREA NERI,<br/>BANK OF ITALY</b><br><br>TOPIC: LINKING HOUSEHOLD SURVEY DATA AND ADMINISTRATIVE STATISTICS: THE BANCA D'ITALIA EXPERIENCE                            |

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|                  |                   |         |  |   | <p><b>GULBIN SAHINBEYOGLU,</b><br/><b>CENTRAL BANK OF TURKEY</b></p> <p>TOPIC: LINKING MICRO DATA SETS FOR FIRMS' FX RISK MONITORING DATABASE</p>                                     |
|                  |                   |         |  |   | <p><b>DAVID BUCKMANN,</b><br/><b>DEUTSCHE BUNDESBANK</b></p> <p>TOPIC: COMPLETING THE SECURITIES PICTURE: INTEGRATING OFFICIAL SECURITIES STATISTICS WITH REGULATORY TRADING DATA</p> |
|                  |                   |         |  |   | <p><b>OLIVIA HAUET,</b><br/><b>NORDEA</b></p> <p>TOPIC: THE INTEGRATION OF MICRO-DATA SETS INTO A MACRO-PRUDENTIAL REGULATORY LANDSCAPE, EXEMPLIFIED BY THE ANACREDIT REGULATION</p>  |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-442 | CREATING COMPREHENSIVE DATA WORLDS THROUGH FORMAL STANDARDISATION AND SEMANTIC HARMONIZATION | BRUNO TISSOT,<br>BANK FOR INTERNATIONAL SETTLEMENTS,<br>SWITZERLAND | <p><b>BORIS HOFMANN,</b><br/><b>BANK FOR INTERNATIONAL SETTLEMENTS</b></p> <p>TOPIC: TBU</p>  |

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|     |      |      |               |                          | <p><b>PATRICIA M STAAB,</b><br/><b>DEUTSCHE BUNDESBANK</b></p> <p>TOPIC: MEASURING THE DATA UNIVERSE: THE CHALLENGES OF DATA INTEGRATION IN A TIME OF EXPLODING DATA WORLDS, SUCCESSFUL APPROACHES USING STATISTICAL STANDARDS, BUNDESBANK'S EXPERIENCE</p> |
|     |      |      |               |                          | <p><b>EKATERINA PROKUNINA,</b><br/><b>CENTRAL BANK OF THE RUSSIAN FEDERATION</b></p> <p>TOPIC: CREATING INTEGRATED DATA WORLD WITHIN THE BANK OF RUSSIA</p>   |
|     |      |      |               |                          | <p><b>ALIDA MARIA DE BEER,</b><br/><b>SOUTH AFRICAN RESERVE BANK</b></p> <p>TOPIC: BUILDING A STANDARDIZED TAXONOMY BETWEEN FINANCIAL REPORTING AND MACROECONOMIC STATISTICS – A SOUTH AFRICAN PERSPECTIVE</p>  |
|     |      |      |               |                          | <p><b>ARJAN BOS,</b><br/><b>NETHERLANDS BANK</b></p> <p>TOPIC: HEADING FOR HARMONIZATION OF DATA COLLECTION</p>   |

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|------------------|-------------------|---------|---|---|--|
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-444 | ADVANCES IN MODELING DEMOGRAPHIC DATA       | AREZOO BAGHERI,<br>NATIONAL POPULATION STUDIES AND COMPREHENSIVE MANAGEMENT INSTITUTE, TEHRAN, IRAN | <b>AREZOO BAGHERI,</b><br><b>NATIONAL POPULATION STUDIES AND COMPREHENSIVE MANAGEMENT INSTITUTE, TEHRAN, IRAN</b><br><br>TOPIC: WHICH YOUTHS MARRIED LATER THAN THEIR DESIRED TIME; CLASSIFICATION TREE APPROACH |
|                  |                   |         |   |   | <b>SOHEL RANA,</b><br><b>EAST WEST UNIVERSITY, DHAKA, BANGLADESH</b><br><br>TOPIC: OUTLIER DETECTION IN POISSON REGRESSION MODEL: EVIDENCE FROM BANGLADESH DEMOGRAPHIC AND HEALTH SURVEY DATA                    |
|                  |                   |         |   |   | <b>MAHSA SAADATI,</b><br><b>NATIONAL POPULATION STUDIES AND COMPREHENSIVE MANAGEMENT INSTITUTE, TEHRAN, IRAN</b><br><br>TOPIC: MODELING BIRTH INTERVALS BY VARIANCE-CORRECTED RECURRENT MODELS                   |
| 22ND AUGUST 2019 | 2.00 PM - 3.40 PM | STS-446 | A NEW PUBLISHING MODEL FOR UK GDP ESTIMATES | JAMES EDWARD SCRUTON,<br>THE OFFICE FOR NATIONAL STATISTICS   | <b>JAMES EDWARD SCRUTON, THE OFFICE FOR NATIONAL STATISTICS</b><br><br>TOPIC: THE RATIONALE FOR A NEW GDP PUBLICATION MODEL  |

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|                  |                     |         |  |   | <b>SUMIT DEY-CHOWDHURY, THE OFFICE FOR NATIONAL STATISTICS</b><br>TOPIC: THE BENEFITS AND TRADE-OFFS OF THE NEW GDP PUBLICATION MODEL                          |
| 19TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-447 | IMPORTANCE AND DEVELOPMENT OF MERCHANDISE TRADE INDICATORS | WAN SITI ZALEHA WAN ZAKARIA, DEPARTMENT OF STATISTICS, MALAYSIA | <b>VALDONE KASPERIUNIENE, EUROPEAN COMMISSION</b><br>TOPIC: DEVELOPMENT IN MERCHANDISE TRADE INDICATORS  |
|                  |                     |         |  |   | <b>MILA HERTINMALYANA BADAN PUSAT STATISTIK, INDONESIA</b><br>TOPIC: MIRROR ANALYSIS   |
|                  |                     |         |  |   | <b>RONALD JANSEN, UNITED NATIONS STATISTICS DIVISION (UNSD)</b><br>TOPIC: TRADE IMBALANCES AND TRADE ASYMMETRIES: TWO SIDES OF A COMPLEX RELATION              |
|                  |                     |         |  |   | <b>KOK ONN TING, ECONOMIC PLANNING UNIT, MALAYSIA</b><br>TOPIC: THE RISE OF CHINA AND THE MALAYSIAN ELECTRONICS AND ELECTRICAL SECTOR (A BILATERAL TRADE VIEW) |
|                  |                     |         |  |   | <b>DONALD JAY BERTULFO, ECONOMIC PLANNING UNIT, MALAYSIA</b><br>TOPIC: QUANTIFYING CHINA'S INVOLVEMENT AND PARTICIPATION IN GLOBAL VALUE CHAINS                |

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| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM | STS-451 | A COMPREHENSIVE STATISTICAL ANALYSIS ON A LARGE-SCALED SCIENTIFIC CITATION DATABASE - WEB OF SCIENCE | FREDERICK KIN HING PHOA,<br>ACADEMIA SINICA | <b>FREDERICK KIN HING PHOA,</b><br><b>ACADEMIA SINICA</b><br><br>TOPIC: A TWO-STEP MODERN APPROACH FOR QUANTIFYING THE RELATIONSHIP AMONG DIFFERENT SUBJECTS IN THE WEB OF SCIENCE DATABASE                         |
|                  |                   |         |  |   | <b>KEISUKE HONDA,</b><br><b>INSTITUTE OF STATISTICAL MATHEMATICS</b><br><br>TOPIC: CLUSTERING OF RESEARCH SUBJECT BASED ON STOCHASTIC BLOCK MODEL   |
|                  |                   |         |  |   | <b>LIVIA LIN-HSUAN CHANG,</b><br><b>INSTITUTE OF STATISTICAL MATHEMATICS</b><br><br>TOPIC: AN EMPIRICAL AND A DATA-DRIVEN ANALYSES ON THE SCIENTIFIC ARTICLE CITATION NETWORK                                       |
|                  |                   |         |  |   | <b>YUJI MIZUKAMI,</b><br><b>NIHON UNIVERSITY</b><br><br>TOPIC: QUANTITATIVELY ANALYZE THE CAPABILITY OF THE ORGANIZATION: ESTIMATING THE CAPABILITY TO INDUCE INNOVATION BASED ON CO-AUTHOR INFORMATION OF ARTICLES |

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| 22ND AUGUST 2019 | 10.30 AM - 12.30 PM | STS-452 | INPUT-OUTPUT ANALYSIS | NORHAYATI SHUJA',<br>DEPARTMENT OF<br>STATISTICS, MALAYSIA | <b>NORHAYATI SHUJA',<br/>DEPARTMENT OF STATISTICS MALAYSIA</b><br><br>TOPIC: INPUT-OUTPUT ANALYSIS OF SECTORAL LINKAGES USING HYPOTHETICAL EXTRACTION METHOD - AN APPLICATION TO MALAYSIA INPUT-OUTPUT TABLES |
|                  |                     |         |                       |  | <b>PROF. DR. JOERG BEUTEL,<br/>KONSTANZ UNIVERSITY OF APPLIED SCIENCES,<br/>GERMANY</b><br><br>TOPIC: ECONOMIC DIVERSIFICATION AND SUSTAINABLE DEVELOPMENT - A NEW ASSESSMENT WITH INPUT-OUTPUT DATA          |
|                  |                     |         |                       |  | <b>NOBUHIRO OKAMOTO,<br/>DAITO BUNKA UNIVERSITY, JAPAN</b><br><br>TOPIC: EXTENDED INPUT-OUTPUT MODEL FOR DEMOGRAPHIC CHANGE – PRELIMINARY APPLICATION TO THE CHINESE URBANISATION PROCESS                     |
|                  |                     |         |                       |  | <b>MAHINTHAN JOSEPH MARIASINGHAM, ASIAN<br/>DEVELOPMENT BANK, PHILIPPINES</b><br><br>TOPIC: USING INPUT-OUTPUT TABLES TO STUDY TRADE AND INTERNATIONAL PRODUCTION SHARING ARRANGEMENTS                        |

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|                  |                   |         |  |  | <p><b>YUAN JIANQIN,</b><br/>STATE INFORMATION CENTER, CHINA</p> <p>TOPIC: THE COMPILATION AND APPLICATION OF 2012 CHINA MULTI-REGIONAL MODEL</p>   |
|                  |                   |         |  |  | <p><b>PROF. DR. YANG CUIHONG,</b><br/>THE CHINESE ACADEMY OF SCIENCES, CHINA</p> <p>TOPIC: VALUE-ADDED AND TRADE-EMBODIED CARBON EMISSION OF CHINA'S INDUSTRY WITH HETEROGENEITY BY FIRM SIZE</p>                |
|                  |                   |         |  |  | <p><b>NORHIKO YAMANO,</b><br/>OECD DIRECTORATE FOR SCIENCE,<br/>TECHNOLOGY AND INNOVATION</p> <p>TOPIC: INTER-COUNTRY INPUT-OUTPUT DATABASE FOR GLOBAL DEMAND PROJECTION MODEL USING DEMOGRAPHIC ASSUMPTIONS</p> |
| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-456 | "NATIONAL TRANSFER ACCOUNTS AS A TOOL TO MEASURE THE IMPACT OF DEMOGRAPHICS CHANGES" | EZATUL NISHA ABDUL RAHMAN, DEPARTMENT OF STATISTICS MALAYSIA | <p><b>EZATUL NISHA ABDUL RAHMAN, DEPARTMENT OF STATISTICS MALAYSIA</b></p> <p>TOPIC: DEMOGRAPHICS CHANGES IN MALAYSIA: IMPACT ON SHRINKAGE OF WORKING AGE POPULATION</p>   |
|                  |                   |         |  |  | <p><b>WANCHAT SUWANKITTI, NATIONAL ECONOMIC AND SOCIAL DEVELOPMENT BOARD, THAILAND</b></p> <p>TOPIC: TBU</p>   |



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|                  |                     |         |                                      |   | DISCUSSANT: <b>NORMAH MANSOR, SOCIAL SECURITY RESEARCH CENTER, UNIVERSITY OF MALAYA</b>   |
| 20TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-459 | STATISTICAL METHODS AND APPLICATIONS | BEE WAH YAP,<br>UNIVERSITI TEKNOLOGI MARA, MALAYSIA | <b>XINYING CHEW,<br/>UNIVERSITI SAINS MALAYSIA</b><br><br>TOPIC: ADAPTIVE CONTROL CHART WITH RUN RULES FOR MULTIVARIATE COEFFICIENT OF VARIATION INTEGRATING ADVANCED DATA VISUALIZATION PLATFORM FOR SUSTAINABLE MANUFACTURING |
|                  |                     |         |                                      |   | <b>CHEW PENG GAN,<br/>SUNWAY UNIVERSITY, MALAYSIA</b><br><br>TOPIC: THE EFFECTS OF MACROECONOMIC VARIABLES ON FUTURE CREDIT RATINGS   |
|                  |                     |         |                                      |   | <b>WAN FAIROS WAN YAACOB,<br/>UNIVERSITI TEKNOLOGI MARA, KAMPUS KELANTAN, MALAYSIA</b><br><br>TOPIC: STATISTICAL MODEL AND ITS EXTENSION FOR COUNT DATA   |

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|                  |                   |         |   |  | <p><b>NORSHAHIDA SHAADAN,</b><br/> <b>UNIVERSITI TEKNOLOGI MARA, MALAYSIA</b></p> <p>TOPIC: THE EFFECTS DETERMINING THE BEST PROBABILITY DISTRIBUTION MODEL FOR PREDICTING OZONE (O<sub>3</sub>) EXCEEDANCES AT SEVERAL AIR QUALITY MONITORING SITES IN MALAYSIA</p> |
|                  |                   |         |   |  | <p>DISCUSSANT: <b>NURULKAMAK MASSERAN,</b><br/> <b>UNIVERSITI KEBANGSAAN MALAYSIA</b></p>  |
| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM | STS-460 | THE IMPORTANCE OF EVIDENCE-BASED STATISTICS FOR ENVIRONMENTAL MANAGEMENT AND SUSTAINABLE PATHWAYS | ZAITUN MOHD TAHA<br>ABD. RAHMAN,<br>DEPARTMENT OF<br>STATISTICS MALAYSIA | <p><b>DANIEL CLARKE,</b><br/> <b>ESCAP</b></p> <p>TOPIC: USING GIS AND OFFICIAL STATISTICS TO SUPPORT ASSESSMENTS OF RISK TO SUSTAINABLE DEVELOPMENT FROM ENVIRONMENTAL DEGRADATION</p>  |
|                  |                   |         |   |  | <p><b>KECUK SUHARIYANTO,</b><br/> <b>BADAN PUSAT STATISTIK INDONESIA</b></p> <p>TOPIC: BUILDING ENVIRONMENTAL-ECONOMIC INTEGRATED ACCOUNT FOR SUSTAINABLE DEVELOPMENT GOALS IMPLEMENTATION: INDONESIA EXPERIENCE</p>   |

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|                  |                   |         |  |                                      | <p><b>ETJIH TASRIAH,</b><br/><b>BADAN PUSAT STATISTIK</b></p> <p>TOPIC: INDONESIA LAND ACCOUNT FOR SUSTAINABLE DEVELOPMENT GOALS IMPLEMENTATION</p>                                 |
|                  |                   |         |  |                                      | <p><b>ZAITUN MOHD TAHA ABD. RAHMAN,</b><br/><b>DEPARTMENT OF STATISTICS MALAYSIA</b></p> <p>TOPIC: THE EVOLUTION OF ENVIRONMENT STATISTICS IN DEPARTMENT OF STATISTICS MALAYSIA</p> |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-461 | NORDIC EXPERIENCES IN COORDINATION OF GLOBAL SDG INDICATOR COMPILATION AND ESTABLISHING DATABASE REPORTING PLATFORMS | JUKKA HOFFRÉN,<br>STATISTICS FINLAND | <p><b>JUKKA HOFFRÉN,</b><br/><b>STATISTICS FINLAND</b></p> <p>TOPIC: THE DEVELOPMENT OF NATIONAL REPORTING PLATFORM FOR GLOBAL SDG INDICATORS IN FINLAND</p>                        |
|                  |                   |         |  |                                      | <p><b>MACIEJ TRUSZCZYNSKI,</b><br/><b>STATISTICS DENMARK</b></p> <p>TOPIC: COLLABORATION ON SDG-DATA BETWEEN NATIONAL STAKEHOLDER GROUPS</p>  |
|                  |                   |         |  |                                      | <p><b>KARIN HANSSON,</b><br/><b>STATISTIC SWEDEN</b></p> <p>TOPIC: COORDINATED COMMUNICATION FOR BETTER FOLLOW-UP OF THE 2030 AGENDA IN SWEDEN</p>                                  |

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| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-462 | YOUTH EMPOWERMENT FOR SUSTAINABLE URBAN DEVELOPMENT | MARKANDEY RAI,<br>UN-HABITAT                          | <b>GUENTER OTTO KARL,</b><br><b>UN-HABITAT</b><br><br>TOPIC: YOUTH EMPLOYMENT AND EMPOWERMENT  |
|                  |                   |         |   |   | <b>NOOR MD. LARIK,</b><br><b>STATISTICAL OFFICE ISLAMABAD, PAKISTAN</b><br><br>TOPIC: STATISTICS FOR HELPING THE YOUTH IN BIG CITIES IN PAKISTAN WITH GENDER DIMENTION |
|                  |                   |         |   |   | <b>ARUN KUMAR SINHA,</b><br><b>CENTRAL UNIVERSITY BIHAR, PATNA, INDIA</b><br><br>TOPIC: YOUTH EMPOWERMENT AND SUSTAINABLE URBAN DEVELOPMENT                            |
|                  |                   |         |   |   | DISCUSSANT: <b>GORA MBUP, GORA</b>   |
| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-463 | MATERIALIZING LABOUR ACCOUNT: WAYS AND CHALLENGES   | NUR LAYALI MOHD ALI KHAN,<br>DEPARTMENT OF STATISTICS | <b>SITI ASIAH AHMAD,</b><br><b>MALAYSIAN BUREAU OF LABOUR STATISTICS, DOSM</b><br><br>TOPIC: THE NEED TO DEVELOP LABOUR ACCOUNT IN MALAYSIA: AN ASSESSMENT             |
|                  |                   |         |   |   | <b>FARHAD MEHRAN,</b><br><b>INDEPENDENT CONSULTANT</b><br><br>TOPIC: THE DEVELOPMENT OF LABOUR ACCOUNTS IN IRAN: COMPARISON WITH AUSTRALIA AND DENMARK                 |

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|                  |                   |         |  |  | <p><b>NORALIZA MOHAMAD ALI,</b><br/> <b>MANPOWER &amp; SOCIAL STATISTICS DIVISION,</b><br/> <b>DOSM</b></p> <p>TOPIC: TBU</p>  |
|                  |                   |         |  |  | <p>DISCUSSANT: <b>TITE HABİYAKARE,</b><br/> <b>INTERNATIONAL LABOUR ORGANISATION</b></p>   |
| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM | STS-466 | INTELLIGENT DATA WAREHOUSE ENRICH SMART STATISTICS | ROSNAH MUHAMAD ALI,<br>DEPARTMENT OF STATISTICS MALAYSIA | <p><b>ROSNAH MUHAMAD ALI,</b><br/> <b>DEPARTMENT OF STATISTICS MALAYSIA</b></p> <p>TOPIC: LEVERAGING INTELLIGENT DATA WAREHOUSE FOR A SEAMLESS STATISTICS</p>                                  |
|                  |                   |         |  |  | <p><b>SASONGKO YUDHO,</b><br/> <b>EBDESK</b></p> <p>TOPIC: MANAGING UNSTRUCTURED DATA THROUGH BIG DATA ANALYTICS TOWARDS INTELLIGENT INSIGHTS</p>  |
|                  |                   |         |  |  | <p><b>STACE CHOW,</b><br/> <b>MICROSTRATEGY PTE LTD</b></p> <p>TOPIC: GOVERNED DATA DISCOVERY: DEPLOYING SELF-SERVICE ANALYTICS TO BUSINESS TEAMS WITH CERTIFIED DOSSIERS</p>                  |
|                  |                   |         |  |  | <p><b>ISMAT BINTI MOHD. SULAIMAN,</b><br/> <b>MINISTRY OF HEALTH MALAYSIA</b></p> <p>TOPIC: MYHARMONY: GENERATING STATISTICS FROM CLINICAL TEXT FOR MONITORING CLINICAL QUALITY INDICATORS</p> |

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| 19TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-468 | PROGRESS IN MEASURING INTERNATIONAL LABOUR MIGRATION: UPDATE ON CURRENT CONCEPTS, AND DERIVED STATISTICS IN SELECTED COUNTRIES | TITE HABIYAKARE, INTERNATIONAL LABOUR ORGANIZATION (ILO) | <b>HAKKI OZEL,</b><br><b>INTERNATIONAL LABOUR ORGANIZATION</b><br><br>TOPIC: CURRENT INTERNATIONAL STANDARDS ON MEASURING LABOUR MIGRATION, FROM THE GUIDELINES BY THE 20TH INTERNATIONAL CONFERENCE OF LABOUR STATISTICIANS |
|                  |                   |         |  |  | <b>BOUCHRA BOUZIANI,</b><br><b>HIGH COMMISSION FOR PLANNING OF MOROCCO</b><br><br>TOPIC: INSIGHTS FOR SHARED MEASUREMENTS ON INTERNATIONAL LABOUR MIGRATION THROUGH THE LFSS OF MENA COUNTRIES                               |
| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-474 | SPATIAL AND SPATIO-TEMPORAL ANALYSIS IN SOCIAL SCIENCE   | YASUMASA MATSUUDA, TOHOKU UNIVERSITY                     | <b>HIDEATSU TSUKAHARA,</b><br><b>SEIJO UNIVERSITY</b><br><br>TOPIC: A COPULA APPROACH TO SPATIAL ECONOMETRICS WITH APPLICATIONS TO FINANCE   |
|                  |                   |         |  |  | <b>YOSHIHIRO YAJIMA,</b><br><b>TOHOKU UNIVERSITY</b><br><br>TOPIC: ON GAUSSIAN SEMIPARAMETRIC ESTIMATORS FOR TWO-DIMENSIONAL INTRINSIC STATIONARY RANDOM FIELDS  |

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|                  |                     |         |  |  | <p><b>TAKAKI SATO,</b><br/><b>TOHOKU UNIVERSITY</b></p> <p>TOPIC: SPATIAL EXTENSION OF GARCH MODELS FOR HIGH DIMENSIONAL FINANCIAL TIME SERIES</p>  |
|                  |                     |         |  |  | <p><b>GIGIH FITRIANTO,</b><br/><b>HIROSHIMA UNIVERSITY OF ECONOMICS</b></p> <p>TOPIC: ANALYSIS OF REGIONAL ECONOMIC GROWTH AGAINST CRISIS: US-JAPAN STATISTICAL COMPARATIVE STUDY BEFORE-AFTER LEHMAN’S SHOCK</p> |
| 19TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-479 | LEVERAGING SOUTH-SOUTH COOPERATION IN THE MODERNIZATION OF OFFICIAL STATISTICS TOWARDS SUPPORTING THE PRODUCTION OF SDG INDICATORS | AHMAD MOHAMAD HUSSEIN, PLANNING AND STATISTICS AUTHORITY | <p><b>NEBIL DABUR,</b><br/><b>SESRIC</b></p> <p>TOPIC: PRIORITISATION OF SUSTAINABLE DEVELOPMENT GOALS AND EFFORTS OF SESRIC TO SUPPORT STATISTICAL MODERNISATION IN OIC MEMBER COUNTRIES</p>                     |
|                  |                     |         |  |  | <p><b>OLA AWAD,</b><br/><b>PALESTINIAN CENTRAL BUREAU OF STATISTICS</b></p> <p>TOPIC: MODERNIZATION AND MONITORING SDGS IN AREA OF CONFLICTS OR IN FRAGILE CONDITIONS</p>   |

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|                  |                   |         |  |                                      | <p><b>BELKACEM ABDOUS,</b><br/> <b>HIGH COMMISSION FOR PLANNING, MOROCCO</b><br/>           TOPIC: MOROCCO’S EXPERIENCE IN SOUTH/SOUTH COOPERATION AND STATISTICAL CAPACITY BUILDING</p> <p><b>HEDI SAIDI,</b><br/> <b>NATIONAL INSTITUTE OF STATISTICS OF TUNISIA</b><br/>           TOPIC: MODERNIZATION OF THE TUNISIAN STATISTICAL SYSTEM AND ITS IMPACT ON STATISTICAL PRODUCTION FOR SDGS</p> <p>DISCUSSANT: <b>MOHD UZIR MAHIDIN,</b><br/> <b>DEPARTMENT OF STATISTICS MALAYSIA</b></p> |
| 22ND AUGUST 2019 | 2.00 PM - 3.40 PM | STS-480 | UNLEASH THE VALUE OF ADVANCED ANALYTICS IN INSURANCE | WEI JIE SEE,<br>BANK NEGARA MALAYSIA | <p><b>ANTOINE THIBAUT,</b><br/> <b>SCOR GLOBAL LIFE</b><br/>           TOPIC: USING WEARABLE DATA TO EMPOWER HEALTHIER LIVES WITH BIOLOGICAL AGE MODEL</p> <p><b>MOHD AZMAN BIN MOHD ISMAIL,</b><br/> <b>ATILZE DIGITAL SDN. BHD</b><br/>           TOPIC: THE INFLUENCE OF TELEMATICS DEVICE ON DRIVING BEHAVIOUR OF COMMERCIAL VEHICLES ACROSS LONG AND SHORT HAUL DRIVERS</p> <p>DISCUSSANT: <b>WEI JIE SEE,</b><br/> <b>BANK NEGARA MALAYSIA</b></p>                                       |



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| 21ST AUGUST 2019 | 10.30 AM - 12.30 PM | STS-483 | ADVANCES IN SPATIAL AND TEMPORAL MODELLING FOR ENVIRONMENTAL DATA | SUJIT SAHU,<br>UNIVERSITY OF SOUTHAMPTON | <b>MARTA BLANGIARDO,</b><br><b>IMPERIAL COLLEGE, LONDON, UK</b><br><br>TOPIC: BAYESIAN MODELING FOR SPATIALLY MISALIGNED HEALTH AND AIR POLLUTION DATA THROUGH THE INLA-SPDE APPROACH                     |
|                  |                     |         |   |  | <b>ELIANE R. RODRIGUES,</b><br><b>UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO</b><br><br>TOPIC: A BIVARIATE SPATIOTEMPORAL MODEL TO ESTIMATE THE PROBABILITY OF AIR POLLUTION EMERGENCY ALERTS IN MEXICO CITY |
|                  |                     |         |   |  | <b>SHUVO BAKAR,</b><br><b>CSIRO, CANBERRA, AUSTRALIA</b><br><br>TOPIC: BAYESIAN SPATIO-TEMPORAL MODELLING FOR PRECIPITATION VOLUME WITH AN APPLICATION TO HUBBARD BROOK ECOSYSTEM STUDY                   |
|                  |                     |         |   |  | <b>DEBASHIS MONDAL,</b><br><b>OREGON STATE UNIVERSITY</b><br><br>TOPIC: SPATIAL-TEMPORAL GAUSSIAN STATE-SPACE MODELS  |
|                  |                     |         |   |  | DISCUSSANT: <b>SUJIT SAHU,</b><br><b>UNIVERSITY OF SOUTHAMPTON</b>  |

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|------------------|-------------------|---------|---|---|--|
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-486 | ENVIRONMENTAL STATISTICS AND CLIMATE CHANGE | ALESSANDRO FASSÒ,<br>DIPARTIMENTO DI INGEGNERIA GESTIONALE, DELL'INFORMAZIONE E DELLA PRODUZIONE, UNIVERSITY OF BERGAMO, BERGAMO, ITALY | ALESSANDRO FASSÒ, DIPARTIMENTO DI INGEGNERIA GESTIONALE, DELL'INFORMAZIONE E DELLA PRODUZIONE, UNIVERSITY OF BERGAMO, BERGAMO, ITALY<br><br>TOPIC: CHANGE DETECTION AND HARMONISATION OF ATMOSPHERIC LARGE SPATIOTEMPORAL SERIES |
|                  |                   |         |   |   | TONIO DI BATTISTA,<br>G. D'ANNUNZIO UNIVERSITY OF CHIETI-PESCARA, ITALY<br><br>TOPIC: INSPECTING ECOLOGICAL COMMUNITIES' STRUCTURE VIA FUNCTIONAL DATA ANALYSIS  |
|                  |                   |         |   |   | AYESHA ALI,<br>UNIVERSITY OF GUELPH, CANADA<br><br>TOPIC: RECENT ADVANCES IN MODELLING ECOLOGICAL NETWORKS   |
|                  |                   |         |   |   | RAPHAËL HUSER,<br>KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KAUST), SAUDI ARABIA<br><br>TOPIC: FLEXIBLE SUB-ASYMPTOTIC MODELING OF THRESHOLD EXCEEDANCES USING HIERARCHICAL MIXTURE MODELS                             |

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| 21ST AUGUST 2019 | 10.30 AM - 12.30 PM | STS-489 | ADVANCES IN BAYESIAN SPATIO-TEMPORAL MODELLING OF DISEASE RISK BASED COMPLEX HOUSEHOLD SURVEYS IN SUB-SAHARAN AFRICA (SSA) | NGIANGA-BAKWIN KANDALA, UNIVERSITY OF WITWATERSRAND | <b>GLORY O ATILOLA,</b><br><b>NORTHUMBRIA UNIVERSITY, UK</b><br>TOPIC: GEOGRAPHIC VARIATION, TRENDS AND DETERMINANTS OF HYPERTENSION IN SOUTH AFRICAN ADULT POPULATION, 2008-2017                         |
|                  |                     |         |  |   | <b>LAWRENCE KAZEMBE,</b><br><b>UNIVERSITY OF NAMIBIA</b><br>TOPIC: MODELLING SPATIO-TEMPORAL PATTERNS OF DISEASE FOR SPATIALLY MISALIGNED DATA: AN APPLICATION TO DISEASE DATA IN NAMIBIA, 2006-2013      |
|                  |                     |         |  |   | <b>CHRISTOPHER NNANATU,</b><br><b>NORTHUMBRIA UNIVERSITY, UK</b><br>TOPIC: MODELLING AND MAPPING PREVALENCE OF FEMALE GENITAL MUTILATION/CUTTING AMONG 0-14 YEARS OLD GIRLS IN KENYA, NIGERIA AND SENEGAL |
|                  |                     |         |  |   | <b>DANIELLE JADE ROBERTS,</b><br><b>UNIVERSITY OF KWAZULU-NATAL</b><br>TOPIC: SPATIAL HETEROGENEITY OF CHILDHOOD ANAEMIA IN FOUR SUB-SAHARAN AFRICAN COUNTRIES  |
|                  |                     |         |  |   | DISCUSSANT: <b>SAMUEL MANDA,</b><br><b>SOUTH AFRICA MEDICAL RESEARCH COUNCIL</b>  |

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| 23RD AUGUST 2019 | 2.15 PM - 3.55 PM | STS-490 | SETTING UP COLLABORATIVE SUPPORT SYSTEMS BETWEEN ACADEMIC INSTITUTIONS TO ENHANCE DELIVERY ON INDUSTRY-INTEGRATED SKILLS DEVELOPMENT PROJECTS | DELIA NORTH, UKZN        | <b>TEMESGEN ZEWOTIR, UKZN, SOUTH AFRICA</b><br><br>TOPIC: STATISTICS POSTGRADUATE PROGRAM CAPACITY ENHANCEMENT THROUGH REGIONAL PARTNERSHIP                                      |
|                  |                   |         |   |                          | <b>MURRAY DE VILLIERS, SAS HEAD OF GLOBAL ACADEMIC PROGRAMS, NORTH CAROLINA, USA</b><br><br>TOPIC: AN INDUSTRY PERSPECTIVE ON ANALYTICS PROGRAMS AT DEGREE GRANTING INSTITUTIONS |
|                  |                   |         |   |                          | <b>PIETER JURIAAN DE JONGH, NORTH-WEST UNIVERSITY, SOUTH AFRICA</b><br><br>TOPIC: PROFESSIONAL STATISTICIANS / DATA SCIENTISTS: WHO ARE THEY AND HOW DO WE TRAIN THEM?           |
|                  |                   |         |   |                          | <b>GOUTAM CHAKRABORTY, SPEAR'S BUSINESS SCHOOL, OKLAHOMA STATE UNIVERSITY, USA</b><br><br>TOPIC: DELIVERING INDUSTRY-FOCUSED BUSINESS ANALYTICS SKILLS                           |

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| 23RD AUGUST 2019 | 2.15 PM - 3.55 PM | STS-493 | VISION ON FUTURE DATA COLLECTION FOR OFFICIAL STATISTICS                                  | MARCEL VAN DER STEEN,<br>STATISTICS<br>NETHERLANDS                       | <b>IRENE SALEMINK, CBS - THE NETHERLANDS</b><br><br>TOPIC: ADVANCED DATA COLLECTION – AN OUTLOOK TO THE FUTURE  |
|                  |                   |         |   |  | <b>STÉPHANE DUFOUR,<br/>STATISTICS CANADA</b><br><br>TOPIC: NEW DATA COLLECTION METHODS   |
|                  |                   |         |   |  | <b>BARRY SCHOUTEN,<br/>CENTER FOR BIG DATA STATISTICS (CBS)</b><br><br>TOPIC: BIG DATA AT THE HEART OF INNOVATION IN OFFICIAL STATISTICS  |
| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-496 | SAFEGUARDING THE PROFESSIONAL INDEPENDENCE OF STATISTICIANS; THE INTERNATIONAL EXPERIENCE | EVELIO O, FABBRONI,<br>INTER-AMERICAN<br>STATISTICAL INSTITUTE<br>(IASI) | <b>MARIO PALMA,<br/>INSTITUTO NACIONAL DE ESTADÍSTICA Y GEOGRAFÍA (INEGI), MEXICO CITY, MEXICO</b><br><br>TOPIC: INEGI'S STATISTICAL AUTONOMY: INSTITUTIONAL GOVERNANCE AND SOME EVER-PRESENT RISKS |
|                  |                   |         |   |  | <b>ROELAND BEERTEN,<br/>FLEMISH STATISTICAL AUTHORITY, BRUSSELS, BELGIUM</b><br><br>TOPIC: THE REQUIREMENTS FOR A WELL-FUNCTIONING STATISTICAL SYSTEM IN A MODERN DEMOCRATIC SOCIETY                |

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|                  |                   |         |  |  | <p><b>ALPHONSE L. MACDONALD,</b><br/> <b>GENERAL BUREAU OF STATISTICS (ABS),</b><br/> <b>PARAMARIBO. SURINAME</b></p> <p>TOPIC: STATISTICIANS MISBEHAVING: THE ETHICAL DIMENSIONS OF AN ESSENTIAL PROFESSION</p> |
|                  |                   |         |  |  | <p><b>PILAR MARTIN-GUZMAN,</b><br/> <b>UNIVERSIDAD AUTÓNOMA DE MADRID,</b><br/> <b>MADRID, SPAIN</b></p> <p>TOPIC: SAFEGUARDS FOR THE PROFESSIONAL INDEPENDENCE OF STATISTICIANS IN EUROPE</p>                   |
| 23RD AUGUST 2019 | 2.15 PM - 3.55 PM | STS-497 | DIGITAL ECONOMY: THE DEVELOPMENT OF INDUSTRY 4.0 | JOO CHIET YONG,<br>DEPARTMENT OF STATISTICS MALAYSIA | <p><b>MOHD SABERI MOHAMAD,</b><br/> <b>UNIVERSITI MALAYSIA KELANTAN</b></p> <p>TOPIC: A SYSTEMATIC REVIEW OF NATIONAL AI STRATEGIC PLANS</p>   |
|                  |                   |         |  |  | <p><b>NORUL ANISA ABU SAFRAN,</b><br/> <b>DEPARTMENT OF STATISTICS MALAYSIA</b></p> <p>TOPIC: MEASURING THE DIGITAL ECONOMY: MALAYSIA'S EXPERIENCE</p>   |
|                  |                   |         |  |  | <p><b>MARIA DENISE MEDENILLA PEÑA,</b><br/> <b>ASIAN DEVELOPMENT BANK</b></p> <p>TOPIC: RECORD LINKAGE FOR MULTI-SOURCED STATISTICAL BUSINESS REGISTER DATA</p>  |

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| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-498 | BALANCING ACCURACY AND INTERPRETABILITY OF MACHINE LEARNING MODELS       | TSUNG FEI KHANG,<br>UNIVERSITY OF MALAYA                      | <b>WEI-YIN LOH,</b><br><b>UNIVERSITY OF WISCONSIN-MADISON</b><br><br>TOPIC: THE GUIDE APPROACH   |
|                  |                   |         |  |   | <b>CHEE SENG CHAN,</b><br><b>UNIVERSITY OF MALAYA</b><br><br>TOPIC: DEEP LEARNING — THE CONCEPTS AND TECHNOLOGY THAT ALLOW COMPUTERS TO SEE AND LEARN                        |
|                  |                   |         |  |   | DISCUSSANT: <b>FOO HOONG LEONG, PERSISTENT SYSTEMS MALAYSIA SDN. BHD.</b>  |
|                  |                   |         |  |   | DISCUSSANT: <b>SENG HUAT ONG, UNIVERSITY OF MALAYA</b>   |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-500 | BIG DATA IN OFFICIAL STATISTICS: A NEW DIMENSION FOR OPERATIONAL OFFICES | MASLINA BINTI SAMSUDIN,<br>DEPARTMENT OF STATISTICS, MALAYSIA | <b>JOKO PARIYANTO,</b><br><b>BADAN PUSAT STATISTIK (BPS), INDONESIA</b><br><br>TOPIC: TRIP IDENTIFICATION PROCESS USING MOBILE POSITIONING DATA                              |
|                  |                   |         |  |   | <b>FAUZANA HJ. ISMAIL,</b><br><b>DEPARTMENT OF STATISTICS, MALAYSIA</b><br><br>TOPIC: USE OF WEB-SCRAPING FOR THE COMPILATION OF CONSUMER PRICE INDEX: MALAYSIA'S EXPERIENCE |

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|                  |                   |         |  |  | <p><b>KIT HOONG CHOO,</b><br/> <b>DEPARTMENT OF STATISTICS, SINGAPORE</b><br/>           TOPIC: PROFILING THE INTERNET ECONOMY IN SINGAPORE</p>  |
|                  |                   |         |  |  | <p><b>JIAJING LI,</b><br/> <b>BEIJING MUNICIPAL BUREAU OF STATISTICS</b><br/>           TOPIC: RESEARCH ON DEEPENING THE APPLICATION OF BIG DATA IN GOVERNMENT STATISTICS</p>  |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-505 | PRACTICAL APPLICATIONS OF ROBUST METHODS FOR MODELLING AND ANALYZING ENVIRONMENTAL- RELATED DATA HAVING OUTLIERS | HABSHAH MIDI,<br>UNIVERSITI PUTRA MALAYSIA | <p><b>HABSHAH MIDI,</b><br/> <b>UNIVERSITI PUTRA MALAYSIA</b><br/>           TOPIC: ANALYSING AIR QUALITY DATA AT DIFFERENT LOCATIONS IN MALAYSIA USING ROBUST TECHNIQUES</p>  |
|                  |                   |         |  |  | <p><b>MAZNI MOHAMAD,</b><br/> <b>UNIVERSITY TECHNOLOGY MARA</b><br/>           TOPIC: AN APPLICATION OF PARTIAL ROBUST-M REGRESSION (PRM) BASED METHODS IN PREDICTING SURFACE OZONE (O3) CONCENTRATION LEVELS</p>                        |
|                  |                   |         |  |  | <p><b>SYAIBA BALQISH ARIFFIN,</b><br/> <b>UNIVERSITY PUTRA MALAYSIA</b><br/>           TOPIC: AN IMPROVISATION OF WEIGHTED BIANCO AND YOHAI ESTIMATOR FOR ANALYZING ENVIRONMENTAL DATA HAVING HIGH LEVERAGE INFLUENTIAL OBSERVATIONS</p> |



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| 20TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-506 | BAYESIAN MODELLING OF PUBLIC HEALTH DATA IN THE PRESENCE OF SPATIAL OR TEMPORAL DEPENDENCE | MARTA BLANGIARDO,<br>IMPERIAL COLLEGE | <b>LETICIA L. RAMIREZ RAMIREZ,</b><br><b>CIMAT, GUANAJUATO, MEXICO</b><br><br>TOPIC: ON THE USE OF SURROGATE MODELS TO SPEED THE ABC INFERENCE FOR EPIDEMIC MODELS IN NETWORKS.  |
|                  |                     |         |  |                                       | <b>MONICA PIRANI,</b><br><b>IMPERIAL COLLEGE LONDON, UK</b><br><br>TOPIC: ASSESSING THE ACUTE HEALTH EFFECTS OF APPORTIONED POLLUTANT MIXTURES   |
|                  |                     |         |  |                                       | <b>GARYFALLOS KONSTANTINOUDIS, UNIVERSITY OF BERN,</b><br><b>INSTITUTE OF SOCIAL AND PREVENTIVE MEDICINE, SWITZERLAND</b><br><br>TOPIC: DISCRETE VERSUS CONTINUOUS DOMAIN MODELS FOR DISEASE MAPPING AND APPLICATIONS ON CHILDHOOD CANCERS |
|                  |                     |         |  |                                       | <b>PATRICK BROWN,</b><br><b>UNIVERSITY OF TORONTO</b><br><br>TOPIC: AIR QUALITY, MORTALITY, AND THE INDIAN MILLION DEATHS STUDY  |
|                  |                     |         |  |                                       | DISCUSSANT: <b>GIANLUCA BAILO,</b><br><b>UNIVERSITY COLLEGE LONDON</b>   |

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|------------------|---------------------|---------|---|---|--|
| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM   | STS-507 | RISING TO THE CHALLENGES OF A CHANGING OFFICIAL STATISTICS WORLD  | SYBILLE MCKEOWN,<br>AUSTRALIAN BUREAU OF STATISTICS | <b>VINCE GALVIN, STATISTICS NEW ZEALAND</b><br><br>TOPIC: ADDING STATISTICAL VALUE IN A RAPIDLY CHANGING GOVERNMENT DATA “ECO-SYSTEM”  |
|                  |                     |         |   |   | <b>SUSIE FORTIER, STATISTICS CANADA</b><br><br>TOPIC: METHODOLOGY LEADERSHIP AND POSITIONING ON A MODERNISATION JOURNEY  |
|                  |                     |         |   |   | <b>KATHERINE JENNY THOMPSON, US CENSUS BUREAU</b><br><br>TOPIC: CHALLENGES IN IMPLEMENTING A NEW IMPUTATION METHOD INTO PRODUCTION IN THE 2017 ECONOMIC CENSUS OR WHAT TO DO WHEN THE RESEARCH APPROACH OVERSIMPLIFIES THE PROBLEM |
| 22ND AUGUST 2019 | 10.30 AM - 12.30 PM | STS-508 | SPECIAL STS: THE AFFORDABLE LIVING IN KUALA LUMPUR CITY-REGION : ACCELERATING THE IMPLEMENTATION OF THE NEW URBAN AGENDA. | DR.AZMIZAM ABDUL RASHID,<br>URBANICE MALAYSIA       | <b>NORLIZA HASHIM, URBANICE MALAYSIA</b><br><br>TOPIC: THE AFFORDABLE LIVING IN KUALA LUMPUR CITY-REGION: ACCELERATING THE IMPLEMENTATION OF THE NEW URBAN AGENDA  |
|                  |                     |         |   |   | <b>DR. SURAYA ISMAIL, KHAZANAH RESEARCH INSTITUTE</b><br><br>TOPIC: THE NEED FOR GRANULAR DATA IN EVIDENCE-BASED POLICY: THE CASE OF HOUSING AFFORDABILITY IN MALAYSIA   |

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|------------------|---------------------|---------|---|---|--|
|                  |                     |         |   |   | DISCUSSANT: <b>JAYASELAN K.NAVARATNAM, MALAYSIA MINISTRY OF HOUSING AND LOCAL GOVERNMENT</b>   |
|                  |                     |         |   |   | DISCUSSANT: <b>IHSAN MOKHTAR, MALAYSIAN INSTITUTE OF PLANNERS</b>  |
|                  |                     |         |   |   | DISCUSSANT: <b>ANWAR SYAHRIN ABDUL AJIB, UEM SUNRISE BERHAD</b>  |
| 19TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-513 | THE DEVELOPMENT OF SUSTAINABLE DEVELOPMENT GOALS (SDGS) INDICATOR SYSTEM: THE PHILIPPINE CASE | JOSEFINA VENEGAS ALMEDA, PHILIPPINE STATISTICAL RESEARCH AND TRAINING INSTITUTE | <b>BERNADETTE BALAMBAN, PHILIPPINE STATISTICS AUTHORITY</b><br><br>TOPIC: THE INDICATOR SYSTEM FOR SUSTAINABLE DEVELOPMENT GOALS (SDGS) MONITORING IN THE PHILIPPINES: ITS CURRENT STATUS<br><br><b>JESSA SARITA LOPEZ, UNIVERSITY OF THE PHILIPPINES</b><br><br>TOPIC: EXPANDING THE PHILIPPINE INDICATOR SYSTEM FOR SUSTAINABLE DEVELOPMENT GOALS (SDGS) MONITORING THROUGH RESEARCH |

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|                  |                   |         |  |  | <p><b>SABRINA OCAMPO ROMASOC,</b><br/> <b>PHILIPPINE STATISTICAL RESEARCH AND TRAINING INSTITUTE</b></p> <p>TOPIC: OPERATIONALIZATION AND INSTITUTIONALIZATION OF THE NEWLY DEVELOPED INDICATORS FOR MONITORING THE SUSTAINABLE DEVELOPMENT GOALS (SDGS): THE NEXT STEP</p> |
|                  |                   |         |  |  | <p><b>MARIA PRAXEDES REYES PEÑA,</b><br/> <b>PHILIPPINE STATISTICAL RESEARCH AND TRAINING INSTITUTE</b></p> <p>TOPIC: COLLABORATIVE ARRANGEMENTS IN PROMOTING THE SUSTAINABLE DEVELOPMENT GOALS (SDGS) AT THE LOCAL LEVEL</p>   |
|                  |                   |         |  |  | <p>DISCUSSANT: <b>ARTURO MARTINEZ, ASIAN DEVELOPMENT BANK</b></p>   |
|                  |                   |         |  |  | <p>DISCUSSANT: <b>WILMA GUILLEN, PHILIPPINE STATISTICS AUTHORITY</b></p>  |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-514 | APPROACHES IN VALIDATING MACHINE-LEARNING MODELS FOR MANAGEMENT OF CREDIT RISK | SYAZWANI HAMSANI,<br>BANK NEGARA<br>MALAYSIA | <p><b>YOON TIEN YAP,</b><br/> <b>RHB BANKING GROUP</b></p> <p>TOPIC: APPLICATION OF MACHINE LEARNING IN THE PREDICTION OF CREDIT DEFAULTS</p>   |

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|                  |                   |         |  |                                    | <p><b>VISHNU KAMALNATH,<br/>MCKINSEY &amp; CO</b></p> <p>TOPIC: TECHNIQUE AND CHALLENGES IN VALIDATION MACHINE LEARNING MODEL</p>                       |
|                  |                   |         |  |                                    | <p><b>SHAFI UR RAHMAN,<br/>SR. PRINCIPAL SCIENTIST, FICO</b></p> <p>TOPIC: OVERCOMING REGULATORY CHALLENGES IN USING MACHINE LEARNING MODELS</p>        |
| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-515 | TRAINING DATA SCIENTISTS AT UNIVERSITY FOR REWARDING CAREERS | JOHN HARRAWAY,<br>OTAGO UNIVERSITY | <p><b>JIM RIDGWAY,<br/>SMART CENTRE DURHAM UNIVERSITY, UK</b></p> <p>TOPIC: LOOKING BACK, LOOKING FORWARD – STATISTICS AND THE DATA SCIENCE TSUNAMI</p> |
|                  |                   |         |  |                                    | <p><b>STEVE MACFEELY,<br/>UNITED NATION CONFERENCE FOR TRADE AND DEVELOPMENT</b></p> <p>TOPIC: TEACHING DATA SCIENCE – A USER PERSPECTIVE</p>           |
|                  |                   |         |  |                                    | <p><b>SOTIRIOS DAMOURAS,<br/>UNIVERSITY OF TORONTO AT SCARBOROUGH</b></p> <p>TOPIC: EVOLVING STATISTICS EDUCATION FOR A DATA SCIENCE WORLD</p>          |

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|------------------|-------------------|---------|---|---|--|
|                  |                   |         |   |   | <b>JEREMIAH DENG,</b><br><b>UNIVERSITY OF OTAGO</b><br><br>TOPIC: DATA SCIENCE PROGRAMMES: IS THERE AN IDEAL DESIGN?   |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-517 | CLASSICAL AND NONCLASSICAL INFINITE DIVISIBILITY, THEIR ANALYSIS AND APPLICATIONS: PART 1 | VICTOR PEREZ ABREU,<br>CENTER FOR RESEARCH IN MATHEMATICS | <b>ANDREAS BASSE-O'CONNOR,</b><br><b>AARHUS UNIVERSITY, DENMARK</b><br><br>TOPIC: FUNCTIONAL APPROXIMATION OF INFINITELY DIVISIBLE PROCESSES WITH APPLICATIONS |
|                  |                   |         |   |   | <b>GENNDADY SAMORODNITSKY,</b><br><b>CORNELL UNIVERSITY, USA</b><br><br>TOPIC: EXTREMA OF LONG RANGE DEPENDENT INFINITELY DIVISIBLE RANDOM FIELDS              |
|                  |                   |         |   |   | <b>JAN ROSINSKI,</b><br><b>UNIVERSITY OF TENNESSEE KNOXVILLE, USA</b><br><br>TOPIC: INFINITELY DIVISIBLE PROCESSES THEIR RANDOM TRANSLATIONS                   |
| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-518 | CLASSICAL AND NONCLASSICAL INFINITE DIVISIBILITY, THEIR ANALYSIS AND APPLICATIONS: PART 2 | VICTOR PEREZ ABREU,<br>CENTER FOR RESEARCH IN MATHEMATICS | <b>STEEN THORBJØRNSEN,</b><br><b>AARHUS UNIVERSITY, DENMARK</b><br><br>TOPIC: FREE INFINITELY DIVISIBLE PROBABILITY MEASURES – PROPERTIES AND MAIN EXAMPLES    |

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|                  |                   |         |  |  | <p><b>BARBARA HELENA JASIULIS-GOLDYN, UNIVERSITY OF WROCLAW, POLAND</b></p> <p>TOPIC: INFINITELY DIVISIBLE PROBABILITY MEASURES UNDER GENERALIZED CONVOLUTIONS</p> |
|                  |                   |         |  |  | <p><b>OCTAVIO ARIZMENDI, CENTER FOR RESEARCH IN MATHEMATICS, MEXICO</b></p> <p>TOPIC: CUMULANTS IN FINITE FREE PROBABILITY</p>                                     |
| 21ST AUGUST 2019 | 2.00 PM - 3.40 PM | STS-520 | SMART CITIES IN ISKANDAR MALAYSIA: PERSPECTIVE ON BIG DATA APPLICATION | WAN MOHD SHAHRULNIZAM BIN WAN MOHD NAJURI, DEPARTMENT OF STATISTICS MALAYSIA, STATE OF JOHOR | <p><b>FAREZA BIN MOHAMED SANI, DEPARTMENT OF STATISTICS MALAYSIA, JOHOR</b></p> <p>TOPIC: STATISTICAL ANALYSIS VERSUS PREDICTIVE ANALYTICS</p>                     |
|                  |                   |         |  |  | <p><b>DATUK DR. ISMAIL IBRAHIM, ISKANDAR REGIONAL DEVELOPMENT AUTHORITY (IRDA)</b></p> <p>TOPIC: ISKANDAR MALAYSIA (IM) SMART CITY INITIATIVES</p>                 |
|                  |                   |         |  |  | <p><b>MOHAMAD FAUZI YAHAYA, MIMOS BERHAD</b></p> <p>TOPIC: BIG DATA ANALYTICS (BDA) TECHNOLOGY AND MACHINE LEARNING.</p>   |

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|                  |                   |         |  |  | <p><b>MINGCUI DU, BEIJING MUNICIPAL BUREAU OF STATISTICS</b></p> <p>TOPIC: RESEARCH ON METHOD OF POPULATION PREDICTION BY BIG DATA FROM MOBILE PHONES</p> <p>DISCUSSANT: <b>WAN MOHD SHAHRULNIZAM BIN WAN MOHD NAJURI, DEPARTMENT OF STATISTICS MALAYSIA</b></p>  |
| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-523 | ADMINISTRATIVE DATA AS ALTERNATIVE AND RELIABLE SOURCES OF OFFICIAL STATISTICS | SHAZURA ZAINOL ABIDIN,<br>BANK NEGARA MALAYSIA | <p><b>SITI HASLINDA MOHD. DIN, DEPARTMENT OF STATISTICS MALAYSIA</b></p> <p>TOPIC: USE OF ADMINISTRATIVE DATA AS AN ALTERNATIVE SOURCE OF OFFICIAL STATISTICS: OPPORTUNITIES AND CHALLENGES</p> <p><b>SHAZURA ZAINOL ABIDIN, BANK NEGARA MALAYSIA</b></p> <p>TOPIC: HARNESSING THE VALUE OF ADMINISTRATIVE DATA: A CENTRAL BANK'S EXPERIENCE</p> <p><b>FARID AHMAD, SURUHANJAYA SYARIKAT MALAYSIA</b></p> <p>TOPIC: SOURCING OF ADMINISTRATIVE RECORD FOR OFFICIAL COMPILERS</p> <p>DISCUSSANT: <b>KENNETH SIMLER, WORLD BANK GROUP</b></p> |



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| 23RD AUGUST 2019 | 10.30 AM - 12.30 PM | STS-524 | SPECIAL STS: THE FEEDBACK LOOP: IMPACT OF EXCHANGE RATES TO ECONOMIC DATA AND ITS INVERSE              | MOHD DZULL FEFRY<br>MOHD BAKRI,<br>PNB       | <b>PROF. DATIN PADUKA FATIMAH MOHAMED ARSHAD, UNIVERSITI PUTRA MALAYSIA</b><br><br>TOPIC: TBU   |
|                  |                     |         |  |  | <b>MOHAMMAD BAZLI CHE ROZENAN, PNB</b><br><br>TOPIC: TBU  |
|                  |                     |         |  |  | DISCUSSANT: <b>FRAZIALI ISMAIL, BANK NEGARA MALAYSIA</b>  |
|                  |                     |         |  |  | DISCUSSANT: <b>SAKTIANDI SAPAAT, MAYBANK</b>  |
| 19TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-535 | JOINT MODELING OF TIME-TO-EVENTS AND LONGITUDINAL MARKERS WITH RELEVANCE TO PERSONALIZED INTERVENTIONS | EDEL A PENA,<br>UNIVERSITY OF SOUTH CAROLINA | <b>SOMNATH DATTA, UNIVERSITY OF FLORIDA</b><br><br>TOPIC: PERSONALIZED TREATMENT SELECTION FOR JOINT OPTIMIZATION OF SURVIVAL AND OTHER OUTCOMES                        |
|                  |                     |         |  |  | <b>ANANDA SEN, UNIVERSITY OF MICHIGAN</b><br><br>TOPIC: A BAYESIAN JOINT MODEL UNDER COMPETING RISKS  |
|                  |                     |         |  |  | <b>SANJIB BASU, UNIVERSITY OF ILLINOIS AT CHICAGO</b><br><br>TOPIC: JOINT MODELING OF CORRELATED LONGITUDINAL MEASURES AND A TIME-TO-EVENT OUTCOME WITH LIMITED FAILURE |

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|                  |                   |         |  |   | <p><b>EDSEL ALDEA PENA,</b><br/> <b>UNIVERSITY OF SOUTH CAROLINA</b></p> <p>TOPIC: JOINT MODELING OF COMPETING RECURRENT EVENTS, LONGITUDINAL MARKER, AND A TERMINAL EVENT</p>   |
| 23RD AUGUST 2019 | 2.15 PM - 3.55 PM | STS-538 | ISSUES AND CHALLENGES IN THE MEASUREMENT OF COST OF LIVING - INTERNATIONAL PERSPECTIVES. | <p>RAMESHWAR SRIVASTAVA,<br/>           THE ROYAL STATISTICAL SOCIETY, UK AND RPS ASSOCIATES &amp; IBRAHIM SORIE YANSANEH,<br/>           INTERNATIONAL CIVIL SERVICE COMMISSION, UNITED NATIONS, NEW YORK, USA</p> | <p><b>RAMESHWAR SRIVASTAVA,</b><br/> <b>RPS ASSOCIATES AND THE ROYAL STATISTICAL SOCIETY</b></p> <p>TOPIC: COMPILATION OF CONSUMER PRICE INDICES AT THE NATIONAL LEVEL, SOME EXPERIENCES FROM AFRICA, ASIA AND THE CARIBBEAN</p>   |
|                  |                   |         |  |   | <p><b>IBRAHIM SORIE YANSANEH,</b><br/> <b>INTERNATIONAL CIVIL SERVICE COMMISSION, UNITED NATIONS, NEW YORK, USA</b></p> <p>TOPIC: ISSUES AND CHALLENGES IN THE MEASUREMENT OF COST OF LIVING FOR THE ADJUSTMENT OF SALARIES OF EXPATRIATE OFFICIALS OF INTERNATIONAL ORGANIZATIONS</p> |
|                  |                   |         |  |   | <p><b>PEDRO LUIS DO NASCIMENTO SILVA,</b><br/> <b>THE BRAZILIAN INSTITUTE FOR GEOGRAPHY AND STATISTICS (IBGE)</b></p> <p>TOPIC: CHALLENGES AND OPPORTUNITIES FOR COST OF LIVING MEASUREMENT IN THE BIG DATA ERA – PERSPECTIVES FROM BRAZIL</p>   |

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| 22ND AUGUST 2019 | 10.30 AM - 12.30 PM | STS-539 | STATISTICAL PROCESS MONITORING IN TWENTY FIRST CENTURY | AMITAVA MUKHERJEE,<br>XLRI - XAVIER SCHOOL OF MANAGEMENT | <b>QURAT-UL-AIN KHALIQ,</b><br><b>DEPARTMENT OF STATISTICS, ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD, PAKISTAN</b><br><br>TOPIC: APPLICATION OF THE TUKEY-ARIMA (AUTOREGRESSIVE INTEGRATED MOVING AVERAGE) CONTROL CHART IN MONITORING THE ROBOTICS PIONEER DATA |
|                  |                     |         |  |  | <b>KHAW KHAI WAH, SCHOOL OF MANAGEMENT, UNIVERSITI SAINS MALAYSIA, 11800 PULAU PINANG, MALAYSIA</b><br><br>TOPIC: VARIABLE PARAMETER CONTROL CHART FOR MULTIVARIATE COEFFICIENT OF VARIATION IN SUSTAINABLE MANUFACTURING                                       |
|                  |                     |         |  |  | <b>CHENGLONG LI,</b><br><b>SCHOOL OF MANAGEMENT, NORTHWESTERN POLYTECHNICAL UNIVERSITY, XI'AN, CHINA</b><br><br>TOPIC: MODELING AND OPTIMIZATION OF THE SPRT CONTROL CHART FOR INDIVIDUAL OBSERVATIONS  |
|                  |                     |         |  |  | <b>MUHAMMAD ABID,</b><br><b>GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD, PAKISTAN</b><br><br>TOPIC: A NEW NONPARAMETRIC HOMOGENEOUSLY WEIGHTED MOVING AVERAGE CONTROL CHART FOR MONITORING THE PROCESS LOCATION   |

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|                  |                     |         |   |  | <p><b>RIDWAN ADEYEMI SANUSI,</b><br/> <b>DEPARTMENT OF SYSTEMS ENGINEERING AND ENGINEERING MANAGEMENT, CITY UNIVERSITY OF HONG KONG, KOWLOON, HONG KONG</b></p> <p>TOPIC: AN IMPROVED MONITORING PROCEDURE OF MAGNITUDE AND FREQUENCY OF EVENTS</p> <p>DISCUSSANT: <b>MIN XIE, DEPARTMENT OF SYSTEM ENGINEERING AND ENGINEERING MANAGEMENT, CITY UNIVERSITY OF HONG KONG, KOWLOON, HONG KONG</b></p>   |
| 21ST AUGUST 2019 | 10.30 AM - 12.30 PM | STS-540 | RECENT ADVANCEMENT IN STATISTICAL PROCESS MONITORING AND ITS APPLICATIONS | AMITAVA MUKHERJEE,<br>XLRI - XAVIER SCHOOL OF MANAGEMENT | <p><b>SIN YIN THE,</b><br/> <b>SCHOOL OF MANAGEMENT, UNIVERSITI SAINS MALAYSIA, 11800 MINDEN, PENANG, MALAYSIA</b></p> <p>TOPIC: A NONPARAMETRIC GWMA CONTROL CHART BASED ON THE MOVING SIGN STATISTICS</p> <p><b>TAHIR MAHMOOD,</b><br/> <b>DEPARTMENT OF SYSTEM ENGINEERING AND ENGINEERING MANAGEMENT, CITY UNIVERSITY OF HONG KONG, KOWLOON, HONG KONG</b></p> <p>TOPIC: PROCESS MONITORING AND DECISION BASED ON ZERO-INFLATED MODELS</p> |

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|     |      |      |               |                          | <p><b>ZHI SONG,</b><br/> <b>DEPARTMENT OF MATHEMATICS, LIAONING UNIVERSITY AND COLLEGE OF SCIENCE, SHENYANG AGRICULTURAL UNIVERSITY</b></p> <p>TOPIC: OPTIMAL DESIGN OF DISTRIBUTION-FREE EXPONENTIALLY WEIGHTED MOVING AVERAGE SCHEMES WITH DYNAMIC FAST INITIAL RESPONSE FOR JOINT MONITORING OF LOCATION AND SCALE</p> |
|     |      |      |               |                          | <p><b>MARIEN A. GRAHAM,</b><br/> <b>DEPARTMENT OF SCIENCE, MATHEMATICS &amp; TECHNOLOGY EDUCATION, UNIVERSITY OF PRETORIA, SOUTH AFRICA</b></p> <p>TOPIC: SHEWHART X-BAR MONITORING SCHEMES WITH SUPPLEMENTARY SIDE-SENSITIVE RUNS-RULES FOR THE BURR-TYPE XII DISTRIBUTION</p>   |
|     |      |      |               |                          | <p><b>ZHI LIN CHONG,</b><br/> <b>DEPARTMENT OF PHYSICAL AND MATHEMATICAL SCIENCE, FACULTY OF SCIENCE, UNIVERSITI TUNKU ABDUL RAHMAN, 31900 KAMPAR, PERAK, MALAYSIA</b></p> <p>TOPIC: A COMPARATIVE STUDY BETWEEN THE STANDARD DEVIATION OF THE TIME TO SIGNAL (SDTS) PERFORMANCE OF THE GR AND SSGR SCHEMES</p>           |
|     |      |      |               |                          | <p>DISCUSSANT: <b>AMITAVA MUKHERJEE, XLRI - XAVIER SCHOOL OF MANAGEMENT</b></p>   |

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| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-541 | THE RESPONSE OF THE NATIONAL STATISTICAL OFFICES IN CASE OF NATURAL DISASTERS. | JOSE ARTURO BLANCAS,<br>NATIONAL INSTITUTE OF STATISTICS AND GEOGRAPHY OF MEXICO | <b>JOSE ARTURO BLANCAS,<br/>NATIONAL INSTITUTE OF STATISTICS AND GEOGRAPHY OF MEXICO</b><br><br>TOPIC: RESPONSE OF THE NATIONAL INSTITUTE OF STATISTICS AND GEOGRAPHY (INEGI) TO NATURAL DISASTERS IN MEXICO |
|                  |                   |         |  |  | <b>VIVIAN ILLARINA, PHILIPPINE STATISTICS AUTHORITY</b><br><br>TOPIC: THE DEVELOPMENT OF DISASTER STATISTICS IN THE PHILIPPINES: EXPENDITURE ACCOUNTS ON DISASTER RISK REDUCTION                             |
|                  |                   |         |  |  | <b>MASAO TAKAHASHI,<br/>STATISTICS BUREAU OF JAPAN</b><br><br>TOPIC: RESPONSES OF THE STATISTICS BUREAU OF JAPAN TO NATURAL DISASTERS  |
| 19TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-543 | MEASURING THE IMPACT OF POLICIES WITH CREDIT REGISTRY DATA                     | KAREN LEE,<br>CENTRAL BANK OF MALAYSIA   | <b>MUHAMMAD KHAIRUL MUIZZ ABD AZIZ,<br/>BANK NEGARA MALAYSIA</b><br><br>TOPIC: EFFECTIVENESS OF POLICIES TO ADDRESS HOUSEHOLD INDEBTEDNESS: EVIDENCE FROM CREDIT REGISTRY DATA IN MALAYSIA                   |
|                  |                   |         |  |  | <b>LUIS TELES DIAS,<br/>BANK OF PORTUGAL</b><br><br>TOPIC: THE NEW PORTUGUESE CENTRAL CREDIT REGISTER: A POWERFUL TOOL FOR A CENTRAL BANK  |

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|------------------|---------------------|---------|--|---|--|
|                  |                     |         |  |   | <p><b>VERONICA BATALLONES BAYANGOS, CENTRAL BANK OF THE PHILIPPINES</b></p> <p>TOPIC: HAVE DOMESTIC PRUDENTIAL POLICIES BEEN EFFICIENT: PRELIMINARY INSIGHTS FROM BANKLEVEL PROPERTY LOAN DATA IN THE PHILIPPINES</p>            |
|                  |                     |         |  |   | <p>DISCUSSANT: <b>JEANMARC ISRAEL, EUROPEAN CENTRAL BANK</b></p>   |
| 22ND AUGUST 2019 | 10.30 AM - 12.30 PM | STS-544 | NOWCASTING AND FORECASTING OF MACROECONOMIC VARIABLES: ROLE OF INDICATORS AND REAL-TIME DATA | BAOLINE CHEN, BUREAU OF ECONOMIC ANALYSIS | <p><b>BAOLINE CHEN, US BUREAU OF ECONOMIC ANALYSIS</b></p> <p>TOPIC: NOWCASTING ADVANCE ESTIMATES OF PRIVATE CONSUMPTION OF SERVICES IN THE US NATIONAL ACCOUNTS: GENERAL BRIDGE EQUATION AND BRIDGING WITH FACTOR FRAMEWORK</p> |
|                  |                     |         |  |   | <p><b>LAURA D'AMATO, CENTRAL BANK OF ARGENTINA</b></p> <p>TOPIC: DIFFERENT APPROACHES TO GDP NOWCASTING IN ARGENTINA</p>   |
|                  |                     |         |  |   | <p><b>PETER A. ZADROZNY, U.S. BUREAU OF LABOR STATISTICS</b></p> <p>TOPIC: FORECASTING QUARTERLY GDP AT REAL-TIME MONTHLY INTERVALS USING BAYESIAN LINEAR LEAST-SQUARES METHODS</p>  |

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|                  |                   |         |  |  | <p><b>RAFAEL DOMÉNECH,</b><br/> <b>BANCO BIBAO VIZCAYA ARGENTARIA, S.A.,</b><br/> <b>SPAIN (BBVA), BBVA RESEARCH</b></p> <p>TOPIC: NOWCASTING AND FORECASTING WITH DYNAMIC FACTORS MODELS: SOME EXPERIENCES AND LESSONS</p> |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-545 | STATISTICAL EDUCATION OR STATISTICAL LITERACY? WAYS TO ADDRESS THEM. | ADRIANA GRACIELA D'AMELIO,<br>UNIVERSIDAD NACIONAL DE CUYO | <p><b>LILIANA ADRIANA MENDOZA SABOYA,</b><br/> <b>UNIVERSIDAD DE COLOMBIA</b></p> <p>TOPIC: STATISTICAL EDUCATION OR STATISTICAL LITERACY. EFFECT ON THE COLLEGE STUDENT</p>  |
|                  |                   |         |  |  | <p><b>ERNESTO ALONSO SÁNCHEZ SÁNCHEZ,</b><br/> <b>UNIVERSIDAD AUTÓNOMA DE MÉJICO</b> TOPIC:</p> <p>STATISTICAL LITERACY AS PART OF STATISTICAL EDUCATION</p>  |
|                  |                   |         |  |  | <p><b>MÓNICA BLAZARINI, UNIVERSIDAD NACIONAL DE CÓRDOBA</b></p> <p>TOPIC: THE TEACHING OF STATISTICAL CONSULTING AND PROFESSIONAL LITERACY</p>  |
|                  |                   |         |  |  | <p>DISCUSSANT: <b>REIJA HELENIUS,</b><br/> <b>INTERNATIONAL STATISTIC LITERACY PROJECT</b></p>  |



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| 21ST AUGUST 2019 | 10.30 AM - 12.30 PM | STS-547 | WHAT TO DO WHEN OUR ASSUMPTIONS FAIL? EXTENDING DUAL AND MULTIPLE SYSTEMS POPULATION ESTIMATION TO MEET THE CHALLENGES OF MODERN DATA SOURCES. | TRACEY SAVAGE,<br>STATS NZ | <b>JOHN DUNNE,<br/>CSO IRELAND</b><br><br>TOPIC: NEW POPULATION ESTIMATION<br>METHODS: NEW ZEALAND AND IRELAND   |
|                  |                     |         |  |                            | <b>OWEN ABBOTT,<br/>OFFICE FOR NATIONAL STATISTICS</b><br><br>TOPIC: DUAL-SYSTEM ESTIMATION BY ANOTHER<br>NAME: POPULATION SIZE ESTIMATION USING<br>WEIGHTING CLASSES  |
|                  |                     |         |  |                            | <b>PETER G.M. VAN DER HEIJDEN,<br/>UTRECHT UNIVERSITY AND UNIVERSITY OF<br/>SOUTHAMPTON</b><br><br>TOPIC: FURTHER EXAMPLES OF POPULATION<br>SIZE ESTIMATION WHEN LINKING REGISTERS<br>RESULTS IN INCOMPLETE COVARIATES |
|                  |                     |         |  |                            | <b>DAAN ZULT,<br/>CBS NETHERLAND</b><br><br>TOPIC: A GENERAL FRAMEWORK FOR MULTIPLE<br>- RECAPTURE ESTIMATION THAT INCORPORATES<br>LINKAGE ERROR CORRECTION  |
|                  |                     |         |  |                            | DISCUSSANT: <b>PAUL SMITH, UNIVERSITY OF<br/>SOUTHAMPTON</b>   |

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| 20TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-550 | NOWCASTING AND FORECASTING OF MACROECONOMIC VARIABLES: MODEL AVERAGING AND SIMILAR TECHNIQUES | KYLE HOOD,<br>U.S. BUREAU OF ECONOMIC ANALYSIS | <b>DANILO LEIVA-LEON,</b><br><b>BANK OF SPAIN</b><br><br>TOPIC: MARKOV-SWITCHING THREE-PASS REGRESSION FILTER   |
|                  |                     |         |   |  | <b>KATHERINE TUCK,</b><br><b>TREASURY DEPARTMENT</b><br><br>TOPIC: FORECASTING HOUSEHOLD CONSUMPTION COMPONENTS: A FORECAST COMBINATION APPROACH                                      |
|                  |                     |         |   |  | <b>PAOLO FORNARO,</b><br><b>THE RESEARCH INSTITUTE OF THE FINNISH ECONOMY</b><br><br>TOPIC: NOWCASTING FINNISH REAL ECONOMIC ACTIVITY: A MACHINE LEARNING APPROACH                    |
|                  |                     |         |   |  | <b>MATTEO MOGLIANI,</b><br><b>BANK OF FRANCE</b><br><br>TOPIC: BAYESIAN MIDAS PENALIZED REGRESSIONS: ESTIMATION, SELECTION, AND PREDICTION  |
|                  |                     |         |   |  | <b>KYLE HOOD,</b><br><b>U.S. BUREAU OF ECONOMIC ANALYSIS</b><br><br>TOPIC: COMBINATION NOWCASTS OF ADVANCE ESTIMATES OF PRIVATE CONSUMPTION OF SERVICES IN THE U.S. NATIONAL ACCOUNTS |

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|------------------|---------------------|---------|--|---|--|
| 22ND AUGUST 2019 | 10.30 AM - 12.30 PM | STS-551 | ON SOME APPLICATIONS OF BAYESIAN STATISTICAL MODELLING | ADRIANA IRAWATI NUR IBRAHIM, UNIVERSITY OF MALAYA | <b>KAMARULZAMAN IBRAHIM, UNIVERSITI KEBANGSAAN MALAYSIA, MALAYSIA</b><br><br>TOPIC: EMPIRICAL BAYES METHOD FOR MODELLING AIR POLLUTION INDEX   |
|                  |                     |         |  |   | <b>ZAMIRA HASANAH ZAMZURI, UNIVERSITI KEBANGSAAN MALAYSIA, MALAYSIA</b><br><br>TOPIC: ESTIMATING THE PROPORTION OF UNREPORTED TRAFFIC ACCIDENTS USING BAYESIAN POISSON LOGNORMAL MODEL WITH AN ADJUSTED MEAN |
|                  |                     |         |  |   | <b>STEPHEN WU, INSTITUTE OF STATISTICAL MATHEMATICS, TOKYO, JAPAN</b><br><br>TOPIC: ENGINEERING APPLICATIONS OF HIERARCHICAL BAYESIAN MODELING   |
|                  |                     |         |  |   | <b>ADRIANA IRAWATI NUR IBRAHIM, UNIVERSITY OF MALAYA</b><br><br>TOPIC: BAYESIAN APPROACH TO ERRORS-IN-VARIABLES IN POISSON MULTIPLE REGRESSION MODEL   |
|                  |                     |         |  |   | <b>DISCUSSANT: WAN ZAWIAH WAN ZIN @ WAN IBRAHIM, UNIVERSITI KEBANGSAAN MALAYSIA, MALAYSIA</b>  |

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|------------------|-------------------|---------|---|--|--|
| 22ND AUGUST 2019 | 2.00 PM - 3.40 PM | STS-552 | MANAGING EXTERNAL SECTOR STATISTICS (ESS) COMPILATION IN A HIGHLY INTER-CONNECTED AND DIGITAL WORLD | NORHAYATI RAZI,<br>BANK NEGARA<br>MALAYSIA | <b>NORHAYATI RAZI, CENTRAL BANK OF MALAYSIA</b><br><br>TOPIC: SECTORISATION AND INFORMATION GRANULARITIES ON PORTFOLIO INVESTMENT STATISTICS   |
|                  |                   |         |   |  | <b>CAROL BERTAUT, BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM, UNITED STATES OF AMERICA</b><br><br>TOPIC: FINANCIAL INTEGRATION AND GLOBALIZATION: CHALLENGES AND OPPORTUNITIES FOR EXTERNAL FINANCIAL STATISTICS |
|                  |                   |         |   |  | <b>NATALIA NEHREBECKA, NATIONAL BANK OF POLAND</b><br><br>TOPIC: FORECASTING THE RECOVERY RATE OF NON-FINANCIAL CORPORATIONS   |
|                  |                   |         |   |  | <b>JOÃO FALCAO SILVA, CENTRAL BANK OF PORTUGAL</b><br><br>TOPIC: USES OF MIRROR DATA: ESTIMATION OF HOUSEHOLD ASSETS AND LIABILITIES WITH BANKS ABROAD   |

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| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM   | STS-555 | RECENT NON-PARAMETRIC APPROACHES : APPLICATIONS TO ENVIRONNEMENTALES, HYDROLOGICAL, OCEANOLOGICAL AND ECONOMIC DATA ANALYSES | SOPHIE DABO-NIANG, UNIVERSITY OF LILLE, INRIA-MODAL | <b>SOPHIE DABONIANG, UNIVERSITY OF LILLE, FRANCE</b><br>TOPIC: GENERALIZED PARTIALLY LINEAR SPATIAL PROBIT MODELS AND APPLICATIONS              |
|                  |                     |         |  |   | <b>NOUREDDINE RHOMARI, UNIVERSITY MOHAMED 1ER, OUJDA, MOROCCO</b><br>TOPIC: ON NONPARAMETRIC ESTIMATION OF RELATIVE RISK FUNCTION               |
|                  |                     |         |  |   | <b>PATRICE BERTAIL, UNIVERSITY OF NANTERRE, FRANCE</b><br>TOPIC: ROBUST ESTIMATORS FOR SOME PIECEWISEDETERMINISTIC MARKOV PROCESSES             |
|                  |                     |         |  |   | <b>RONALD VAN NOOYEN, DELFT UNIVERSITY OF TECHNOLOGY</b><br>TOPIC: HOW HARD IS IT TO DETECT ABRUPT CHANGES IN THE STATISTICS OF TIME SERIES?    |
| 21ST AUGUST 2019 | 10.30 AM - 12.30 PM | STS-556 | ADVANCED STATISTICAL MODELING FOR DATA ANALYSTS  | ROSSITA M YUNUS, UNIVERSITY OF MALAYA, MALAYSIA     | <b>MOHD BAKRI ADAM, UNIVERSITI PUTRA MALAYSIA</b><br>TOPIC: RECOVERY SIGNAL OF HEAVY-TAILED DATA FROM NOISE WITH OUTLIERS AND HIGHER VOLATILITY |

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|                  |                   |         |  |  | <p><b>HERLINA HANUM, UNIVERSITAS SRIWIJAYA, INDONESIA</b></p> <p>TOPIC: MODELING INDONESIAN RAINFALL DATA USING GAMMA PARETO GENERALIZED LINEAR MODEL</p>   |
|                  |                   |         |  |  | <p><b>SAFWATI IBRAHIM, UNIVERSITI MALAYSIA PERLIS</b></p> <p>TOPIC: PARAMETER ESTIMATION AND OUTLIER DETECTION METHOD USING DFBETAC STATISTIC FOR MULTIVARIATE EYE DATA WITH THE MULTIPLE CIRCULAR REGRESSION MODEL</p> |
|                  |                   |         |  |  | <p><b>NUR ANISAH MOHAMED, UNIVERSITY OF MALAYA</b></p> <p>TOPIC: ESTIMATION USING RIDGE QUADRATIC INFERENCE FUNCTION FOR LONGITUDINAL OUTCOME</p>   |
|                  |                   |         |  |  | <p><b>AZIZUR RAHMAN, CHARLES STURT UNIVERSITY</b></p> <p>TOPIC: A NOVEL BAYESIAN MATRIX ANALYTIC APPROACH FOR SMALL AREA ESTIMATION</p>   |
| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-557 | APPLYING QUANTITATIVE TECHNIQUES TO DEVELOP OPTIMAL INVESTMENT STRATEGIES FOR INSURERS | DAVID ROSEBURGH, ABERDEEN STANDARD INVESTMENTS | <p><b>DAVID ROSEBURGH, ABERDEEN STANDARD INVESTMENTS</b></p> <p>TOPIC: OPTIMAL SECURITY SELECTION UNDER REGULATORY CONSTRAINTS</p>  |

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|                  |                   |         |   |  | <p><b>OUAILE EL FETOUHI, ABERDEEN STANDARD INVESTMENTS</b><br/>           TOPIC: PORTFOLIO OPTIMIZATION FOR INSURERS UNDER RISK BASED CAPITAL REGIMES</p> <p><b>PAUL MANSON, MOODY'S ANALYTICS</b><br/>           TOPIC: A LIGHT STOCHASTIC ASSET LIABILITY MANAGEMENT (ALM) FOR STRATEGIC ASSET ALLOCATION (SAA)</p>   |
| 19TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-558 | DEVELOPMENT OF END-TO-END INTEGRATED SOLUTION FOR STATISTICAL REPORTING: OPPORTUNITIES AND CHALLENGES | ALEX CHIN THIAM KHOR, OCEAN BRIDGE SDN BHD | <p><b>ALEX CHIN THIAM KHOR, OCEAN BRIDGE SDN BHD</b><br/>           TOPIC: THE INTEGRATED DATA SUBMISSION/COLLECTION PLATFORM FOR REGULATOR AND STATISTICAL COMMUNITY</p> <p><b>CHIN KUAN LOW, INFOSCAPE SDN BHD</b><br/>           TOPIC: DATA ANALYTICS PLATFORM FOR BOTH XBRL &amp; NON XBRL CONTENT</p> <p><b>SACHVINDER SINGH, HANDSHAKES TECHNOLOGY (M) SDN BHD</b><br/>           TOPIC: HANDSHAKES CORPORATE INTELLEGECE PLATFORM</p> <p><b>DANIEL BROMLEY, COREFILING LIMITED</b><br/>           TOPIC: HANDSHAKES CORPORATE INTELLEGECE PLATFORM</p> <p><b>PHILIP ALLEN, COREFILING LIMITED</b><br/>           TOPIC: TBU</p> |

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| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-559 | PRE-EMPTIVE STRIKE AGAINST MONEY LAUNDERING AND TERRORIST FINANCING USING BIG DATA ANALYTICS AND ARTIFICIAL INTELLIGENCE | XIANG LEE,<br>BANK NEGARA MALAYSIA       | <b>CLAUDE COLASANTE, AUSTRAC</b><br>TOPIC: DATA ANALYTICS APPLICATIONS FROM REGULATOR'S POINT OF VIEW  |
|                  |                   |         |  |  | <b>KIMMO SORAMÄKI, FINANCIAL NETWORK ANALYTICS (FNA)</b><br>TOPIC : GRAPH BASED PREDICTIVE ANALYTICS FOR ANOMALY DETECTION IN PAYMENT SYSTEMS  |
|                  |                   |         |  |  | <b>DAVID RICH, VOCALINK</b><br>TOPIC: DATA ANALYTICS BY MASTERCARD TO COUNTER ML/TF RISK   |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-560 | ADVANCING TO THE NEXT STAGE OF TALENT ANALYTICS USING PSYCHOMETRIC ASSESSMENTS   | MAZLINA MUHAMAD,<br>BANK NEGARA MALAYSIA | <b>RAINER KURZ, CUBIKS GROUP LIMITED (UK)</b><br>TOPIC: CROSS-VALIDATION OF A POTENTIAL MODEL AND DEVELOPMENT OF A PEOPLE ANALYTICS ASSESSMENT SOLUTION  |
|                  |                   |         |  |  | <b>KOK MUN YEE, GLOBAL PSYTECH SDN. BHD.</b><br>TOPIC: EXPLORATORY STUDY OF KEY TRAITS FOR THE FOURTH INDUSTRIAL REVOLUTION AMONG EMPLOYEES OF FINANCIAL INSTITUTIONS IN MALAYSIA              |
|                  |                   |         |  |  | <b>JAMES HOURAN, AETHOS CONSULTING GROUP (USA)</b><br>TOPIC: USING COVERT RESPONSE BIASES IN PSYCHOMETRIC ASSESSMENTS FOR IMPROVED JOB CANDIDATE INTERVIEWS: AN EXAMPLE WITH HOSPITALITY ROLES |



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|                  |                     |         |  |                          | DISCUSSANT: <b>RENSE LANGE, GLOBAL PSYCHTECH (MALAYSIA)</b>   |
| 20TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-563 | PRODUCING POPULATION ESTIMATES FROM ADMINISTRATIVE DATA SOURCES – HOW TO DEAL WITH UNDER- AND OVER-COVERAGE ERROR. | TRACEY SAVAGE, STATS NZ  | <b>PIERO DEMETRIO FALORSI, ISTAT</b><br>TOPIC: POPULATION COVERAGE SURVEY SAMPLING IN THE NEW ITALIAN REGISTER BASED CENSUS   |
|                  |                     |         |  |                          | <b>PETER JONES, OFFICE FOR NATIONAL STATISTICS</b><br>TOPIC: DEVELOPING AN INTEGRATED SURVEY FOR ADMIN BASED POPULATION ESTIMATES AND LABOUR MARKET STATISTICS                            |
|                  |                     |         |  |                          | <b>SHAODAN (ANNA) LIN, STATS NZ</b><br>TOPIC: RECENT PROGRESS ON IMPLEMENTING A BAYESIAN APPROACH TO POPULATION ESTIMATION FROM AN ADMINISTRATIVE LIST SUBJECT TO UNDER AND OVER-COVERAGE |
|                  |                     |         |  |                          | <b>DAVIDE DI CECCO, ISTAT</b><br>TOPIC: POPULATION SIZE ESTIMATION FROM INCOMPLETE MULTISOURCE LISTS: A BAYESIAN PERSPECTIVE ON LATENT CLASS MODELLING                                    |
|                  |                     |         |  |                          | DISCUSSANT: <b>LI-CHUN ZHANG, UNIVERSITY OF SOUTHAMPTON AND STATISTICS NORWAY</b>   |

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| 19TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-564 | SPECIAL STS: INTEGRATING MICRO- AND MACRO-DATA FOR BETTER CREDIT ASSESSMENT | CHEE MAY YEE,<br>BANK NEGARA MALAYSIA | <b>ROSNIZAM SAARI, BANK NEGARA MALAYSIA</b><br>TOPIC: CCRIS AND ITS ROLE IN PROMOTING FINANCIAL STABILITY   |
|                  |                     |         |   |                                       | <b>ERIC ERIC CHIN, CTOS DATA SYSTEMS SDN BHD</b><br>TOPIC: DEVELOPING A WORLD-CLASS CREDIT REPORTING INDUSTRY IN MALAYSIA: CHALLENGES AND THE WAY FORWARD |
|                  |                     |         |   |                                       | <b>VINCENT MOK, ALLIANCE BANK BERHAD</b><br>TOPIC: CREDIT ASSESSMENT: FROM A CREDIT PROVIDER'S PERSPECTIVE  |
| 23RD AUGUST 2019 | 2.15 PM - 3.55 PM   | STS-566 | FORECASTING FOR CURRENCY DEMAND   | MASITA,<br>BANK NEGARA MALAYSIA       | <b>RICHARD FINLAY, RESERVE BANK OF AUSTRALIA</b><br>TOPIC: FORECASTING BANKNOTE DEMAND AT THE RESERVE BANK OF AUSTRALIA                                   |
|                  |                     |         |   |                                       | <b>ILUMINADA TAPIRU SICAT, REGIONAL OPERATIONS SUB-SECTOR EMAIL</b><br>TOPIC: FORECASTING CURRENCY DEMAND: THE PHILIPPINE EXPERIENCE                      |
|                  |                     |         |   |                                       | <b>JONAS GOLTZ, GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH</b><br>TOPIC: VOLUME FORECASTING IN THE CASH CYCLE   |
|                  |                     |         |   |                                       | <b>DOUG BROOKS, DE LA RUE</b><br>TOPIC: FORECASTING DEMAND FOR CURRENCY   |

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| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-567 | EFFECTIVE COMMUNICATION: WHAT EVERY YOUNG STATISTICIAN SHOULD KNOW     | MST HOWLADER<br>TAMANNA,<br>UNIVERSITY OF DHAKA | <b>LOUISE M RYAN, UNIVERSITY OF TECHNOLOGY SYDNEY</b><br><br>TOPIC: THE ART OF COMMUNICATION - KNOW THINE AUDIENCE!                          |
|                  |                   |         |  |   | <b>JOHN BAILER, MIAMI UNIVERSITY</b><br><br>TOPIC: WORKING WITH JOURNALISTS TO DISCUSS AND REPORT STATISTICAL WORK                           |
|                  |                   |         |  |   | <b>EMI TANAKA, THE UNIVERSITY OF SYDNEY</b><br><br>TOPIC: WHAT CAN SOCIAL MEDIA DO FOR ACADEMIC AND PROFESSIONAL STATISTICIANS?              |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-570 | MULTINATIONAL PROFIT SHIFTING AND ILLICIT FLOWS – CAN WE MEASURE THEM? | FERNANDO CANTU,<br>STATISTICS<br>NETHERLANDS    | <b>MARY EVERETT, CENTRAL BANK, IRELAND</b><br><br>TOPIC: TRACKING THE INTERNATIONAL FOOTPRINTS OF GLOBAL FIRMS                               |
|                  |                   |         |  |   | <b>DYLAN RASSIER, U.S. BUREAU OF ECONOMIC ANALYSIS</b><br><br>TOPIC: MULTINATIONAL PROFIT SHIFTING AND MEASURES THROUGHOUT ECONOMIC ACCOUNTS |
|                  |                   |         |  |   | DISCUSSANT 1: <b>PETER VANDEVEN, OECD</b>  |
|                  |                   |         |  |   | DISCUSSANT 2: <b>ANGELA ME, UNITED NATIONS OFFICE ON DRUGS AND CRIME (UNODC)</b>   |

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| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM   | STS-571 | DEVELOPING MOBILE POSITIONING DATA FOR OFFICIAL STATISTICS: EXPERIENCES FROM EUROPE AND ASIA                           | TITI KANTI LESTARI,<br>BPS STATISTICS INDONESIA   | <b>JAANUS KROON, EESTI PANK</b><br>TOPIC: MOBILE PHONE AND CREDIT CARD DATA: EXPERIENCE FROM 10 YEARS OF PUBLIC PRIVATE PARTNERSHIP                           |
|                  |                     |         |  |   | <b>SARPONO DIMULJO, BPS STATISTICS INDONESIA</b><br>TOPIC: COMBINING MOBILE PHONE DATA AND SURVEY DATA FOR THE BEST RESULT: EXPERIENCE FROM INDONESIA         |
|                  |                     |         |  |   | <b>OSSI NURMI, STATISTICS FINLAND</b><br>TOPIC: THE USE OF MOBILE PHONE DATA  |
|                  |                     |         |  |   | DISCUSSANT: <b>ERKI SALUVEER, POSITIUM LBS</b>  |
| 23RD AUGUST 2019 | 10.30 AM - 12.30 PM | STS-573 | E-COMMERCE PLATFORM AND SEARCH ENGINE AS BIG DATA SOURCE: A SIMULATION FOR BETTER ECONOMIC STATISTIC DATA IN INDONESIA | ERLI WIJAYANTI<br>PRASTIWI,<br>STATISTICS INDONESIA<br>(BADAN PUSAT STATISTIK REPUBLIK INDONESIA) | <b>AMANDA PRATAMA PUTRA, BPS - STATISTICS INDONESIA</b><br>TOPIC: USING BIG DATA FOR ACCOMODATION STATISTICS: A NEW CHALLENGE IN PRODUCING TOURISM STATISTICS |
|                  |                     |         |  |   | <b>CHINDY SAKTIAS PRATIWI, BPS - STATISTICS INDONESIA</b><br>TOPIC: ONLINE PRICE DATA FOR CPI MEASUREMENT IN INDONESIA  |

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|------------------|-------------------|---------|---|--|---|
|                  |                   |         |   |  | <p><b>RENDRA ACHYUNDA ANUGRAH PUTRA, BPS - STATISTICS INDONESIA (DIRECTORATE OF STATISTIC INFORMATION SYSTEM)</b></p> <p>TOPIC: SEARCH ENGINE AS BIG DATA SOURCE: AN APPROACH FOR MEASURING SUSTAINABLE ECONOMIC WELFARE IN THE DIGITAL AGE</p> |
|                  |                   |         |   |  | <p><b>WIDA SIDDIKARA PERWITASARI, BPS - STATISTICS INDONESIA</b></p> <p>TOPIC: NOWCASTING MODELLING OF VOLATILE AND NON-VOLATILE FOOD PRICES USING CROWDSOURCING DATA (CASE STUDY OF SOME FOOD COMMODITIES PRICES ON LOMBOK ISLAND IN 2015)</p> |
|                  |                   |         |   |  | <p>DISCUSSANT: <b>SETIA PRAMANA, POLYTECHNIC STATISTICS STIS JAKARTA</b></p>  |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-577 | RECENT ADVANCES IN STATISTICS AND COMPUTATION | NOR AISHAH HAMZAH,<br>UNIVERSITY OF MALAYA | <p><b>MAHDI ROOZBEH, SEMNAN UNIVERSITY, IRAN</b></p> <p>TOPIC: OPTIMAL SECURITY SELECTION UNDER REGULATORY CONSTRAINTS</p>  |
|                  |                   |         |   |  | <p><b>NOOR AKMA IBRAHIM, UNIVERSITI PUTRA MALAYSIA</b></p> <p>TOPIC: JOINT MODELLING OF LONGITUDINAL 3MS SCORES AND SURVIVAL FOR COGNITIVELY IMPAIRED INDIVIDUAL</p>  |

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|------------------|---------------------|---------|---|---|--|
|                  |                     |         |   |   | <p><b>MD. SABIRUZZAMAN, DEPARTMENT OF STATISTICS, UNIVERSITY OF RAJSHAHI</b><br/>           TOPIC: A LIGHT STOCHASTIC ASSET LIABILITY MANAGEMENT (ALM) FOR STRATEGIC ASSET ALLOCATION (SAA)</p> <p><b>K.M SAKTHIVEL, BHARATHIAR UNIVERSITY</b><br/>           TOPIC: A ROLE OF STATISTICAL MODELS IN THE ERA OF ARTIFICIAL INTELLIGENCE</p>                      |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM   | STS-578 | ADVANCES IN STATISTICS AND MACHINE LEARNING FOR FINANCE                         | BRUNO DUPIRE, BLOOMBERG L.P.                      | <p><b>BRUNO DUPIRE, BLOOMBERG L.P.</b><br/>           TOPIC: MACHINE LEARNING FOR FINANCE</p> <p><b>ARUN VERMA, BLOOMBERG L.P.</b><br/>           TOPIC: QUANTAMENTAL MODELS FOR INVESTING</p> <p><b>AAKRITI MITTAL, BLOOMBERG L.P.</b><br/>           TOPIC: CORRELATIONS IN ASYNCHRONOUS MARKETS</p> <p>DISCUSSANT: <b>ALEXANDRE ALESI, BLOOMBERG L.P.</b></p> |
| 21ST AUGUST 2019 | 10.30 AM - 12.30 PM | STS-579 | ASYMPTOTIC BEHAVIOR AND NUMERICAL SIMULATION OF STOCHASTIC EVOLUTIONARY SYSTEMS | ELENA YAROVAYA, LOMONOSOV MOSCOW STATE UNIVERSITY | <p><b>ELENA YAROVAYA, LOMONOSOV MOSCOW STATE UNIVERSITY</b><br/>           TOPIC: STOCHASTIC EVOLUTIONARY SYSTEM ON MULTIDIMENSIONAL LATTICES</p>  |

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|-----|------|------|---------------|--------------------------|--|
|     |      |      |               |                          | <p><b>CARMEN MINUESA ABRIL, UNIVERSITY OF EXTREMADURA</b></p> <p>TOPIC: BAYESIAN INFERENCE FOR A TWO-TYPE CONTROLLED BRANCHING MODEL FOR AN OLIGODENDROCYTE CELL POPULATION</p>                          |
|     |      |      |               |                          | <p><b>MIGUEL GONZÁLEZ, EXTREMADURA UNIVERSITY, BADAJOZ, SPAIN</b></p> <p>TOPIC: NONPARAMETRIC BAYESIAN INFERENCE FOR YLINKED TWOSEX BRANCHING PROCESSES WITH BLIND CHOICE USING MCMC AND ABC METHODS</p> |
|     |      |      |               |                          | <p><b>DARIA BALASHOVA, LOMONOSOV MOSCOW STATE UNIVERSITY</b></p> <p>TOPIC: SIMULATION OF BRANCHING RANDOM WALKS WITH DIFFERENT INTENSITY OF BRANCHING SOURCES</p>  |
|     |      |      |               |                          | <p><b>ANASTASIYA RYTOVA, LOMONOSOV MOSCOW STATE UNIVERSITY</b></p> <p>TOPIC: SURVIVAL ANALYSIS OF PARTICLE POPULATIONS IN BRANCHING RANDOM WALKS</p>   |

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|                  |                     |         |   |   | <p><b>MAROUSSIA NIKIFOROVA NIKIFOROVA SLAVTCHOVA-BOJKOVA, UNIVERSITY "ST. KLIMENT OHRIDSKI"</b></p> <p>TOPIC: COMPUTATIONAL MODELLING OF CANCER EVOLUTION BY MULTI-TYPE BRANCHING PROCESSES</p> |
|                  |                     |         |   |   | <p>DISCUSSANT: <b>LARISA AFANAS'EVA, LOMONOSOV MOSCOW STATE UNIVERSITY</b></p>  |
| 19TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-580 | ADVANCES AND APPLICATIONS OF STATISTICAL PROCESS MONITORING | SOTIRIS BERSIMIS, UNIVERSITY OF PIRAEUS | <p><b>ROSS STEWART SPARKS, CSIRO, AUSTRALIA</b></p> <p>TOPIC: AN APPROACH TO MONITORING MULTIVARIATE TIME BETWEEN EVENTS</p>  |
|                  |                     |         |   |   | <p><b>ELISAVET NIKA, ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, GREECE</b></p> <p>TOPIC: MONITORING PHARMACEUTICAL EXPENDITURES USING SPM TECHNIQUES</p>                                      |
|                  |                     |         |   |   | <p><b>INEZ MARIA ZWETSLOOT, CITY UNIVERSITY OF HONG KONG, HONG KONG</b></p> <p>TOPIC: CONTROLLING DATA QUALITY IN THE PRESENCE OF MISSING DATA USING MULTIVARIATE CONTROL CHARTS</p>            |
|                  |                     |         |   |   | <p><b>ROB GOEDHART, UNIVERSITY OF AMSTERDAM, NETHERLANDS</b></p> <p>TOPIC: STATISTICAL CONTROL OF SHEWHART CONTROL CHARTS</p>   |



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|                  |                   |         |   |                                     | <p><b>VASSILIS PLAGIANAKOS, UNIVERSITY OF THESSALY, GREECE</b></p> <p>TOPIC: METHODS FOR MONITORING HEALTH CARE SERVICES QUALITY</p> <hr/> <p>DISCUSSANT:<br/> <b>KWOK TSUI, CITY UNIVERSITY OF HONG KONG, HONG KONG</b></p>   |
| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM | STS-582 | STATISTICAL ANALYSIS OF COMPLEX DATA IN STATISTICAL GENETICS AND BIOINFORMATICS | SHILI LIN,<br>OHIO STATE UNIVERSITY | <p><b>SHILI LIN, OHIO STATE UNIVERSITY</b></p> <p>TOPIC: DETECTING DIFFERENTIALLY METHYLATED REGIONS ACCOUNTING FOR CELL PURITY USING BAYESIAN CREDIBLE BANDS</p> <hr/> <p><b>MIJEONG KIM, EWHA WOMANS UNIVERSITY</b></p> <p>TOPIC: STATISTICAL METHODS FOR IDENTIFYING NOVEL PROMOTERS</p> <hr/> <p><b>MARIZA DE ANDRADE, MAYO CLINIC</b></p> <p>MENDELIAN RANDOMIZATION, CAUSAL TOPIC: RELATIONSHIP, AND STATISTICAL APPROACHES</p> <hr/> <p><b>JULIA PAVAN SOLER, UNIVERSITY OF SAO PAULO</b></p> <p>TOPIC: PROTEOGENOMICS: STATISTICAL ISSUES IN DATA INTEGRATION AND PREDICTION</p> |

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| 22ND AUGUST 2019 | 2.00 PM - 3.40 PM | STS-583 | GEOSPATIAL INFORMATION FOR INTERNATIONAL STATISTICS  | PIETRO GENNARI,<br>FAO                   | <b>MARIANA KOTZEVA, EUROSTAT</b><br>TOPIC: IMPLEMENTING A GEOSPATIAL DATA STRATEGY IN THE EUROPEAN STATISTICAL SYSTEM   |
|                  |                   |         |  |  | <b>YAKOB MUDESIR SEID, FAO</b><br>TOPIC: COST-EFFECTIVENESS OF REMOTE SENSING FOR AGRICULTURAL STATISTICS IN DEVELOPING AND TRANSITION COUNTRIES                                |
|                  |                   |         |  |  | <b>COEN BUSSINK, UNODC</b><br>TOPIC: THE USE OF REMOTE SENSING AND GEOGRAPHIC DATA FOR ESTIMATING THE AREA UNDER OPIUM POPPY CULTIVATION IN MEXICO                              |
|                  |                   |         |  |  | <b>MICHAEL WILD, WORLD BANK</b><br>TOPIC: ADDRESSING THE ISSUE OF MISSING OR NON-IDEAL SAMPLING FRAMES IN HOUSEHOLD SURVEYS IN DEVELOPING COUNTRIES THROUGH REMOTE SENSING DATA |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-587 | MEASUREMENT ISSUES IN AN AGE OF DIGITAL TECHNOLOGIES | YAFEI WANG,<br>BEIJING NORMAL UNIVERSITY | <b>SHUJIAN XIANG, ZHEJIANG GONGSHANG UNIVERSITY, CHINA</b><br>TOPIC: MEASURING THE STRUCTURE OF DIGITAL ECONOMY — THE CASE OF CHINA   |

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|                  |                   |         |  |                                       | <p><b>GUANGWU CHEN, THE UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA</b></p> <p>TOPIC: THE IMPACTS OF DIGITALISATION ON CHINA'S ECONOMIC SYSTEM</p>             |
|                  |                   |         |  |                                       | <p><b>HUI WEI, AUSTRALIAN BUREAU OF STATISTICS</b></p> <p>TOPIC: THE ACCURACY AND RELEVANCE OF GDP MEASURES IN A DIGITAL ECONOMY</p>                        |
|                  |                   |         |  |                                       | <p>DISCUSSANT: <b>NAN ZHANG, HIROSHIMA SHUDO UNIVERSITY, JAPAN</b></p>  |
| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-592 | RECENT ISSUES IN ACTUARY AND ECONOMICS | MOHD AZMI HARON, UNIVERSITY OF MALAYA | <p><b>MOHD AZMI HARON, UNIVERSITY OF MALAYA</b></p> <p>TOPIC: INSOLVENCY RISK MODELS AND CAPITAL ADEQUACY RULES FOR BANKING SYSTEM</p>                      |
|                  |                   |         |  |                                       | <p><b>AISHANUDDIN A.J, UNIVERSITI TEKNOLOGI MARA</b></p> <p>TOPIC: MEASUREMENT AND MODELING OF MORAL HAZARD ON EQUITY CONTRACTS IN INVESTMENT FINANCING</p> |
|                  |                   |         |  |                                       | <p><b>MICHEAL YAP HECK WEI, MAYBANK MALAYSIA</b></p> <p>TOPIC: ON THE GROWTH AND COMPETITIVE EFFECTS OF CONSTANT MARKET SHARE ANALYSIS</p>                  |

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| 19TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-633 | STATISTICAL METHODS FOR VARIABLE-GROUP SELECTION IN HIGH DIMENSIONAL REGRESSION | ANANG KURNIA,<br>BOGOR AGRICULTURAL UNIVERSITY, INDONESIA | <b>BAGUS SARTONO, BOGOR AGRICULTURAL UNIVERSITY, INDONESIA</b><br>TOPIC: ACTIVE EFFECTS SELECTION WITH CONSIDERING HEREDITY PRINCIPLE IN MULTIFACTOR EXPERIMENT DATA ANALYSIS  |
|                  |                   |         |   |   | <b>ARIEF GUSNANTO, UNIVERSITY OF LEEDS</b><br>TOPIC: SPARSESMOOTHED METHOD FOR VARIABLE SELECTION IN HIGHDIMENSIONAL DATA ANALYSIS   |
|                  |                   |         |   |   | <b>AGUS SALIM, LA TROBE UNIVERSITY &amp; BAKER INSTITUTE FOR HEART AND DIABETES, AUSTRALIA</b><br>TOPIC: POWERFUL DIFFERENTIAL EXPRESSION ANALYSIS INCORPORATING NETWORK TOPOLOGY FOR NEXTGENERATION SEQUENCING DATA |
| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-637 | NATIONAL STATISTICAL OFFICES IN THE DATA SCIENCE ERA                            | DR. MOHAMED ALI ISMAIL,<br>CAIRO UNIVERSITY               | <b>MAGUED OSMAN, FACULTY OF ECONOMY AND POLITICAL SCIENCE, CAIRO UNIVERSITY</b><br>TOPIC: STATISTICS MONOPOLY: NO ROOM FOR NOSTALGIA   |
|                  |                   |         |   |   | <b>REEM MOHAMED EL-SEBAAY, CENTRAL AGENCY FOR PUBLIC MOBILIZATION AND STATISTICS</b><br>TOPIC: USING BIG DATA IN MONITORING INDICATORS OF SUSTAINABLE DEVELOPMENT GOALS IN EGYPT                                     |

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|                  |                   |         |  |   | <p><b>RONALD JANSEN, STATISTICS DIVISION, DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS UNITED NATIONS</b></p> <p>TOPIC: UN GLOBAL PLATFORM AS A DATA SCIENCE COLLABORATION ENVIRONMENT FOR OFFICIAL STATISTICS</p> |
|                  |                   |         |  |   | <p>DISCUSSANT: <b>HUSSEIN SAYED ABDEL AZIZ, FACULTY OF ECONOMY AND POLITICAL SCIENCE</b></p>  |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-643 | NEW BAYES METHODS FOR BIG DATA SETS AND COMPLEX MODELS | GEOFFREY K. NICHOLLS, DEPARTMENT OF STATISTICS, OXFORD UNIVERSITY, UK | <p><b>DAVID J. NOTT, DEPARTMENT OF STATISTICS AND APPLIED PROBABILITY, NATIONAL UNIVERSITY OF SINGAPORE</b></p> <p>TOPIC: GAUSSIAN VARIATIONAL APPROXIMATION FOR HIGH-DIMENSIONAL STATE SPACE MODELS</p>        |
|                  |                   |         |  |   | <p><b>SCOTT A. SISSON, SCHOOL OF MATHEMATICS AND STATISTICS, UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA</b></p> <p>TOPIC: NEW MODELS FOR SYMBOLIC DATA ANALYSIS</p>   |
|                  |                   |         |  |   | <p><b>JEONG EUN LEE, UNIVERSITY OF AUCKLAND</b></p> <p>TOPIC: CALIBRATION PROCEDURES FOR APPROXIMATE BAYESIAN CREDIBLE SETS</p>   |

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| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM   | STS-699 | SPECIAL STS: HARNESSING THE POWER OF DATA FOR THE 2030 AGENDA: OPEN DATA AND BUILDING TRUST IN DATA IN THE NEW DATA ECOSYSTEMS | LUIS GONZALEZ MORALES,<br>UNITED NATIONS STATISTICS DIVISION | <b>HAISHAN FU, WORLD BANK DATA GROUP</b><br>TOPIC: TRUST IN OFFICIAL STATISTICS IN A POST-TRUTH WORLD  |
|                  |                     |         |  |  | <b>DOMINIK ROZKRUT, STATISTICS POLAND</b><br>TOPIC: ROLE OF DATA REPORTING PLATFORMS IN BUILDING TRUST IN OFFICIAL STATISTICS FOR THE 2030 AGENDA                          |
|                  |                     |         |  |  | <b>SHAIDA BADIEE, OPEN DATA WATCH</b><br>TOPIC: OUTCOMES OF THE UN WORLD DATA FORUM 2018 – AND WHAT’S NEXT?  |
|                  |                     |         |  |  | <b>OMAR SEIDU, GHANA STATISTICAL SERVICES</b><br>TOPIC: OPEN DATA AND BUILDING TRUST IN THE NEW DATA ECOSYSTEMS IN GHANA   |
| 23RD AUGUST 2019 | 10.30 AM - 12.30 PM | STS-700 | SPECIAL STS - USING BIG DATA FOR OFFICIAL STATISTICS – THE ASIA AND PACIFIC EXPERIENCE   | GEMMA VANHALDEREN,<br>UN ESCAP STATISTICS DIVISION           | <b>HATAICHANOK PUCKCHARERN, NATIONAL STATISTICS OFFICE, THAILAND</b><br>TOPIC: BIG DATA FOR OFFICIAL STATISTICS IN THAILAND  |
|                  |                     |         |  |  | <b>CANDIDO ASTROLOGO, JR., PHILIPPINES STATISTICS AUTHORITY</b><br>TOPIC: MEASURING THE RURAL ACCESS INDEX IN THE PHILIPPINES USING ROAD NETWORK DATA AND NIGHTTIME LIGHTS |

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|                  |                     |          |   |                                       | <p><b>SUMAN RAJ ARYAL, CENTRAL BUREAU OF STATISTICS, NEPAL</b></p> <p>TOPIC: ACCOMMODATING BIG DATA IN NEPAL: CHALLENGES AND OPPORTUNITIES</p>                                       |
|                  |                     |          |   |                                       | <p><b>YAJING CONG, NATIONAL BUREAU OF STATISTICS OF CHINA</b></p> <p>TOPIC: CHINA'S EXPERIENCE IN THE APPLICATION OF BIG DATA IN OFFICIAL STATISTICS</p>                             |
|                  |                     |          |   |                                       | <p>DISCUSSANT: <b>RONALD JANSEN, UN DESA STATISTICS DIVISION</b></p>   |
| 20TH AUGUST 2019 | 10.30 AM - 12.30 PM | STS-1080 | SPECIAL STS: DATA SCIENCE AND HEALTHCARE INFORMATICS FOR THE DEVELOPING COUNTRIES SPECIAL SESSION | MOHSEN FARID, UNIVERSITY OF DERBY, UK | <p><b>FIONN MURTAGH, UNIVERSITY OF HUDDERSFIELD, UK</b></p> <p>TOPIC: DATA SCIENCE AND THE BIG DATA FRAMEWORK FOR DEVELOPMENT AND TO BENEFIT FROM DISRUPTIVE TECHNOLOGY ADVANCES</p> |
|                  |                     |          |   |                                       | <p><b>MOHSEN FARID, UNIVERSITY OF DERBY, UK</b></p> <p>TOPIC: HOW CAN BIG DATA ANALYTICS PREDICT PSYCHIATRIC MORBIDITY OF CANCER PATIENTS?</p>                                       |

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|                  |                   |          |  |  | <p><b>ASMA ADNANE, UNIVERSITY OF LOUGHBOROUGH, UK</b></p> <p>TOPIC: IS BLOCKCHAIN SUITABLE FOR ELECTRONIC HEALTHCARE RECORDS AND DATA ANALYTICS?</p>   |
|                  |                   |          |  |  | <p><b>KARINA GIBERT, BEA SEVILLA-VILLANUEVA, MIQUEL SÀNCHEZ-MARRÈ</b></p> <p>TOPIC: DIET4YOU: A PERSONAL INTELLIGENT ASSISTANT FOR DIETS INTEGRATING DATA SCIENCE</p>  |
|                  |                   |          |  |  | <p><b>MARCELLO TROVATI, EDGE HILL UNIVERSITY, UK</b></p> <p>TOPIC: PREDICTION OF A&amp;E ATTENDANCE BASED ON REAL-TIME SOCIAL MEDIA FEEDS</p>  |
|                  |                   |          |  |  | <p><b>PASSANT EL-KAFRAWY, FACULTY OF SCIENCE, MENOFIA UNIVERSITY, EGYPT</b></p> <p>TOPIC: A SURVEY OF MACHINE LEARNING ALGORITHMS FOR EFFICIENT BIOMARKERS IDENTIFICATION FROM ERYTHROCYTES DYNAMIC ANTIGENS STORE</p> |
| 21ST AUGUST 2019 | 4.00 PM - 5.40 PM | STS-2279 | EXPERIMENTAL STATISTICS, STATISTICAL MODELING AND APPLICATIONS | TERESA A. OLIVEIRA, UNIVERSIDADE ABERTA AND CEAL |  |



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| 21ST AUGUST 2019 | 10.30 AM - 12.30 PM | STS-2319 | ASIAN DEVELOPMENT BANK'S SUPPORT TO INNOVATIVE DATA COLLECTION AND ANALYTICAL METHODS | MAHINTHAN JOSEPH MARIASINGHAM, ASIAN DEVELOPMENT BANK, PHILIPPINES | <b>ARTURO MARTINEZ, ASIAN DEVELOPMENT BANK</b><br>TOPIC: ENHANCING SMALL AREA POVERTY ESTIMATES USING SATELLITE IMAGERY   |
|                  |                     |          |   |  | <b>NAGRAJ RAO, ASIAN DEVELOPMENT BANK</b><br>TOPIC: MEASURING RICE YIELD FROM SPACE: THE CASE OF THAI BINH PROVINCE, VIETNAM  |
|                  |                     |          |   |  | <b>JUDE DAVID ROQUE, ASIAN DEVELOPMENT BANK</b><br>TOPIC: HOW MUCH BETTER IS BETTER? QUANTIFYING THE CAPI ADVANTAGE USING VIETNAM'S LABOR FORCE SURVEY                    |
|                  |                     |          |   |  | <b>ELISABETTA GENTILE, ASIAN DEVELOPMENT BANK</b><br>TOPIC: LESSONS LEARNED FROM CONDUCTING TWO ONLINE TRAINING COURSES ON COMPUTER-ASSISTED PERSONAL INTERVIEWING (CAPI) |
| 20TH AUGUST 2019 | 2.00 PM - 3.40 PM   | STS-2320 | MOVING FROM TRADITIONAL DATA TO BIG DATA IN ASSESSING KNOWLEDGE SOCIETIES             | ANTHONY FAKHOURY, UNITED NATIONS DEVELOPMENT PROGRAMME             | <b>ALI HADI, AMERICAN UNIVERSITY OF CAIRO</b><br>TOPIC: ON THE IDENTIFICATION AND HANDLING OF OUTLIERS IN COMPOSITE INDEX NUMBERS   |

**62<sup>nd</sup> ISI World Statistics Congress 2019 (ISI WSC 2019)**  
**18 – 23 August 2019 in Kuala Lumpur, Malaysia**  
**Special Topic Sessions (STS) Programme Schedule**

| DAY              | TIME              | STS#     | SESSION TITLE | ORGANISER / ORGANISATION      | NAME/ORGANISATION, TOPIC  |
|------------------|-------------------|----------|---------------|-------------------------------|---|
|                  |                   |          |               |                               | <b>DR. MOHAMED ALI ISMAIL, CAIRO UNIVERSITY</b><br>TOPIC: COMPOSITE INDICES AND TRADITIONAL DATA: THE GLOBAL KNOWLEDGE INDEX<br><b>BRUNO RODRIGUES, PWC</b><br>TOPIC: FUTURE OF KNOWLEDGE – REAL TIME DATA<br>DISCUSSANT: <b>HANY TORKY, UNITED NATIONS DEVELOPMENT PROGRAMME</b> |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-2321 | TBA           | ANITA SYE,<br>WILEY PUBLISHER |   |
| 20TH AUGUST 2019 | 4.00 PM - 5.40 PM | STS-2322 | TBA           | LINDA PETERS,<br>ESRI         |   |