

# PROGRAMME AND ABSTRACTS

## 6th International Conference on Econometrics and Statistics (EcoSta 2023)

<http://cmstatistics.org/EcoSta2023>

Waseda University, Tokyo, Japan

1-3 August 2023



## SCHEDULE (Japan time, GMT+9)

2023-08-01	2023-08-02	2023-08-03
<b>Opening</b> , 08:35 - 08:50		<b>K</b> EcoSta2023 07:30 - 09:10
<b>A</b> EcoSta2023 08:50 - 09:40	<b>F</b> EcoSta2023 08:15 - 10:20	
<b>Coffee break</b> 09:40 - 10:10	<b>Coffee break</b> 10:20 - 10:50	<b>L</b> EcoSta2023 09:20 - 11:00
<b>B</b> EcoSta2023 10:10 - 11:50	<b>G</b> EcoSta2023 10:50 - 12:30	<b>Coffee break</b> 11:00 - 11:30
<b>Lunch break</b> 11:50 - 13:20	<b>Lunch break</b> 12:30 - 14:00	<b>M - Keynote</b> EcoSta2023 11:30 - 12:20
<b>C</b> EcoSta2023 13:20 - 15:00	<b>H</b> EcoSta2023 14:00 - 15:40	<b>Lunch break</b> 12:20 - 13:40
<b>D - Keynote</b> EcoSta2023 15:10 - 16:00	<b>Coffee break</b> 15:40 - 16:10	<b>N</b> EcoSta2023 13:40 - 14:55
<b>Coffee break</b> 16:00 - 16:30	<b>I</b> EcoSta2023 16:10 - 17:50	<b>Coffee break</b> 14:55 - 15:25
<b>E</b> EcoSta2023 16:30 - 18:35	<b>J</b> EcoSta2023 18:00 - 19:15	<b>O</b> EcoSta2023 15:25 - 17:05
<b>Welcome reception</b> 18:35 - 19:30		<b>P - Keynote</b> EcoSta2023 17:15 - 18:05
	<b>Conference dinner</b> 19:30 - 21:30	<b>Closing</b> , 18:05 - 18:20

## TUTORIAL, MEETINGS, SOCIAL EVENTS AND ACCESS TO THE CONFERENCE

### TUTORIAL

The tutorial “Confidence distribution: A new statistical inference approach and its applications in meta-analysis and fusion learning” will take place on Monday, 31st of July 2023, 15:00-19:30 (GMT+9) in the Room 201 (floor 2), Building 57, Nishi-Waseda Campus (see map on page VII), 3-chome-4 Okubo, Shinjuku City, Tokyo 169-0072, Japan. It will be delivered by Prof. Regina Liu, Rutgers, USA. Only participants who had subscribed for the tutorial can attend. Registered participants will be able to access the tutorial either in person or virtually.

### SPECIAL MEETINGS by invitation to group members

The EcoSta (Econometrics and Statistics) and CSDA (Computational Statistics and Data Analysis) Editorial Board meetings will take place on Monday the 31st of July 2023, 17:30-18:15 (GMT+9). Indications to attend the Editorial Board meetings will be sent to the associate editors participating in the conference in due course.

### ACCESS TO THE CONFERENCE

- Participants can attend virtually or in person according to what they selected while registering.
- The in-person venue is the Waseda University, 1 Chome-6 Nishiwaseda, Shinjuku City, Tokyo, Japan, Buildings 11 and 15 (see maps on page VIII). Please note that the university opens at 8:00, so you will not be able to enter before that time.
- The **registration, coffee breaks, welcome reception and lunches** will be located in the entrance (pilotis) of the ground floor of Building 11. The conference dinner will be in Rihga Royal Hotel Tokyo (see maps on page VIII and floor maps on page IX).
- For environmental sustainability reasons, the conference endeavors to minimize paper usage and overall consumption. While there will be a limited number of printed Book of Abstracts, bags, pens, and pads available for those who require them, we strongly encourage all participants to opt for digital materials by downloading them onto their personal devices. For those who do utilize printed materials, we kindly request that they be returned after use to be reused or recycled. QR codes will be displayed in the registration area. These codes will enable participants to quickly access essential information, further reducing the need for printed materials and promoting a paperless conference experience.
- The conference is live streaming, and it will not be recorded. The oral presentations will take place through Zoom, while the virtual social events and poster presentations will run in Gather Town. The conference programme time is set at GMT+9.
- In order to access the virtual conference, you must first log in to the registration tool, get the daily password there and leave the session open. Then you should open another tab and go to the interactive programme (schedule). Click on the slot you wish to attend and then on the session. If it is hybrid, click on the blinking room of the floor map. You will be redirected to Zoom, where you will need to use the daily password.
- Please note that for security reasons, the Zoom links will not be sent to the speakers, and they can only be found on the online interactive programme (schedule).
- Detailed indications for virtual and in-person attendance, hybrid sessions, speakers, chairs, posters, networking, test sessions, as well as FAQ, can be found on the webpage.

### Presentation instructions

The paper presentations must be shared through Zoom. The in-person rooms will be visible in Zoom as the corresponding hybrid session. Virtual speakers should install the application, have a stable internet connection, and make sure their video and audio work. They will share their slides when the chair requires it, present their talk, and be ready to answer the question after the presentation. Detailed indications for speakers can be found on the website. Each speaker has 20 minutes for the talk and 3-4 mins for discussion as a general rule. Strict timing must be observed.

### Posters

The poster sessions will take place through Gather Town. The posters should be sent in **png format** to [info@CMStatistics.org](mailto:info@CMStatistics.org) by the 27th July 2023. Landscape orientation is advisable. Detailed indications for the poster presentations can be found on the website.

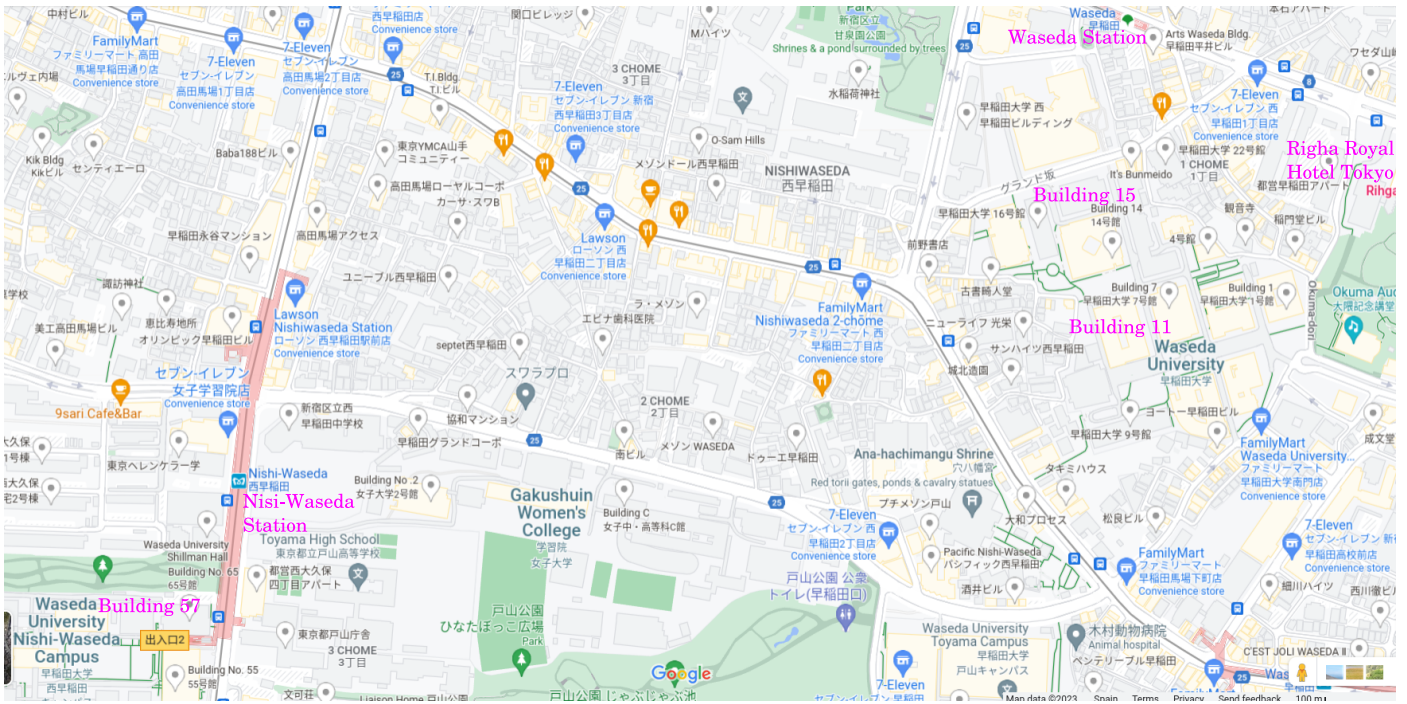
### Session chairs

The session chairs will be responsible for introducing the session, the speakers and coordinating the discussion time. A member of the conference staff, identified by the name *Angel* followed by the room number, will assist in giving the rights to participate as the chair requests it. If any speaker is missing or has a technical problem, the chair can pass to the next speaker and come back later to resume if possible. Detailed indications for the (virtual or in-person) session chairs can be found on the website.

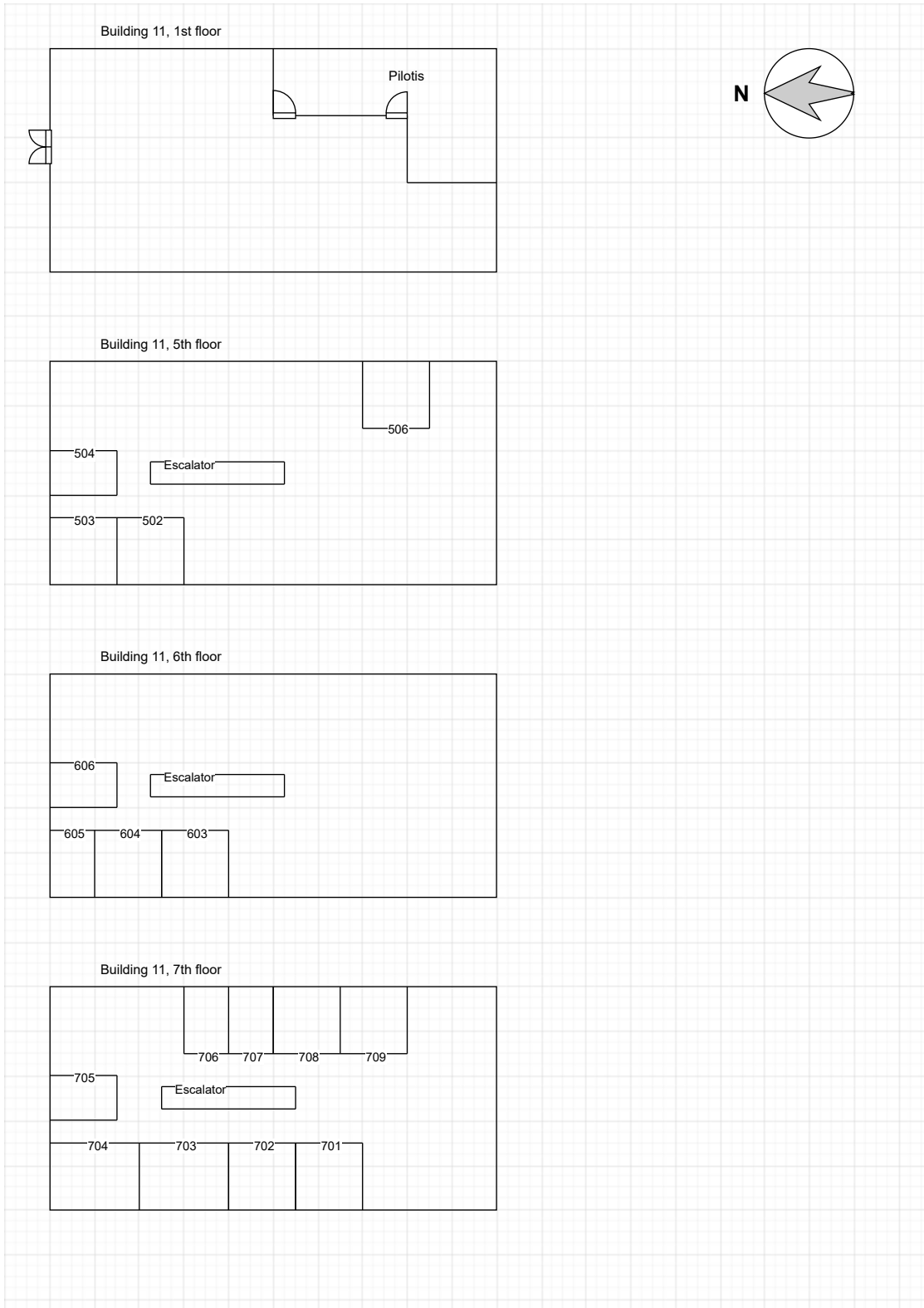
### Test session

A test session will be set up for Saturday the 29th of July 2023, from 15:00 to 15:30 GMT+9 (Japan time). The participants will be able to enter through the Virtual Room R01 in the programme to test their presentations, (e.g., through Parallel session A) to test their presentations, video, micro and audio. Detailed indications for the test session can be found on the website.

### Map of the venue and nearby area

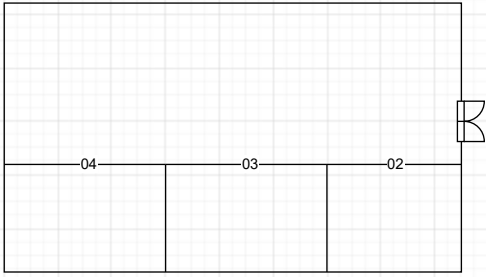


# Floor maps

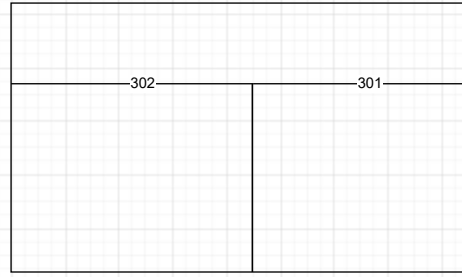


## Building 11

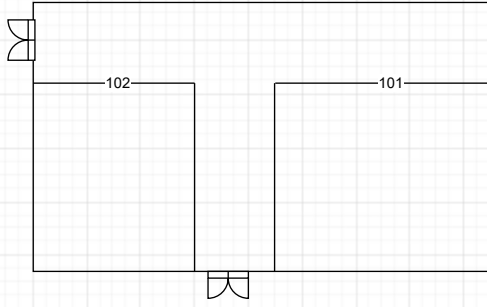
Building 15, 0th floor



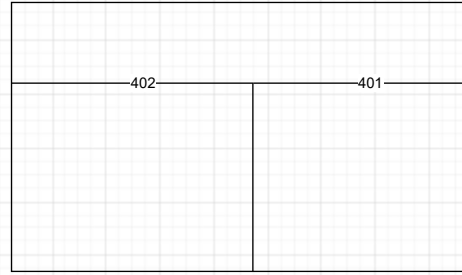
Building 15, 3rd floor



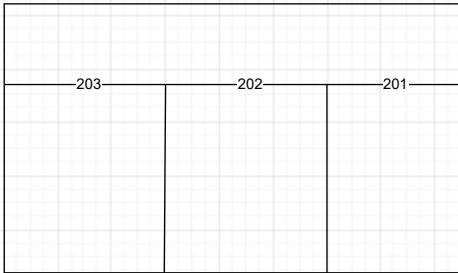
Building 15, 1st floor



Building 15, 4th floor



Building 15, 2nd floor



**Building 15**

<b>Keynote talk 1</b>	<b>Tuesday 01.08.2023</b>	<b>15:10 - 16:00</b>
FUSION LEARNING: COMBINING INFERENCES FROM DIVERSE DATA SOURCES WITH HETEROGENEOUS DATA		
Speaker: Regina Liu, Rutgers University, United States		
<b>Keynote talk 2</b>	<b>Thursday 03.08.2023</b>	<b>11:30 - 12:20</b>
NETWORK APPROACHES IN HEALTHCARE, BUSINESS AND SOCIAL SCIENCES		
Speaker: Mike So, The Hong Kong University of Science and Technology, Hong Kong		
<b>Keynote talk 3</b>	<b>Thursday 03.08.2023</b>	<b>17:15 - 18:05</b>
SUFFICIENT DIMENSION REDUCTION MEETS TWO-SAMPLE REGRESSION ESTIMATION		
Speaker: Masayuki Hirukawa, Ryukoku University, Japan		
<b>Parallel Session A – EcoSta2023</b>	<b>Tuesday 01.08.2023</b>	<b>08:50 - 09:40</b>
EV316 FUNCTIONAL DATA ANALYSIS (Room Virtual R01)		
EI053 ADVANCES IN ECONOMETRICS AND STATISTICS (Room 604)		
EO096 PERSONALIZED DECISION-MAKING WITH LONGITUDINAL DATA (Room 02)		
EO011 MODERN ANALYTICAL METHODS FOR BIOMEDICAL RESEARCH (Room 03)		
EO204 ADVANCED AND PRACTICAL BAYESIAN METHODS FOR BIOMEDICAL RESEARCH (Room 04)		
EO051 RECENT ADVANCES IN ANALYSIS OF POINT PROCESS DATA (Room Virtual R02)		
EO073 SPATIAL EPIDEMIOLOGY (Room 102)		
EO077 NONPARAMETRIC CAUSAL INFERENCE (Room 201)		
EO165 RECENT STATISTICAL ADVANCES IN BIOMEDICAL SCIENCES (Room 203)		
EO018 ADVANCES IN NONPARAMETRIC INFERENCE, FAIRNESS, AND IV REGRESSION (Room 503)		
EO032 ADVANCED STATISTICAL LEARNING APPROACHES IN ANALYZING COMPLEX MODERN DATA (Room 506)		
EO112 NONPARAMETRIC METHODS IN FINANCE AND ECONOMETRICS (Room 603)		
EO212 TOPICS IN STATISTICAL LEARNING (Room 605)		
EO078 RECENT DEVELOPMENTS IN COPULA MODELING (Room 606)		
EO170 RECENT DEVELOPMENTS IN DEGRADATION ANALYSIS AND RELATED TOPICS I (Room 701)		
EO047 STATISTICS IN NEUROSCIENCE (Room 702)		
EO158 ADVANCES IN CONTEMPORARY SPATIAL AND SPATIOTEMPORAL DATA ANALYSIS (Room 703)		
EO081 DESIGN AND ANALYSIS OF COMPLEX EXPERIMENTS: THEORY AND APPLICATIONS (Room 704)		
EO155 RECENT ADVANCES IN STATISTICAL METHODS AND THEORY (Room 705)		
EO062 RECENT ADVANCE IN NEUROIMAGING STUDIES (Room 708)		
EO215 CURRENT DEVELOPMENTS IN INDUSTRIAL AND APPLIED STATISTICS (Room 709)		
<b>Parallel Session B – EcoSta2023</b>	<b>Tuesday 01.08.2023</b>	<b>10:10 - 11:50</b>
EO183 ADVANCES OF HIGH-DIMENSIONAL STATISTICS IN BIOLOGICAL AND BIOMEDICAL RESEARCH (Room 02)		
EO059 MODERN STATISTICAL METHODS FOR DATA ANALYSIS (Room 03)		
EO180 RECENT ADVANCES IN THE ANALYSIS OF CENSORED DATA (Room 04)		
EO012 SPATIAL STATISTICS (Room Virtual R01)		
EO187 STATISTICAL METHODS IN HEALTH RESEARCH (Room Virtual R02)		
EO114 NETWORK, GRAPHICAL MODEL AND MIXTURE MODELS (Room 102)		
EO154 ADVANCES IN SEMIPARAMETRIC METHODS FOR CAUSAL INFERENCE (Room 201)		
EO189 RECENT ADVANCES IN NETWORK ANALYSES (Room 203)		
EO242 BAYESIAN MODELING AND COMPUTATION WITH BEHAVIORAL AND SOCIAL APPLICATIONS (Room 503)		
EO104 TRUSTWORTHY MACHINE LEARNING METHODS AND APPLICATIONS (Room 506)		
EO207 CHANGE POINTS DETECTION FOR TIME SERIES (Room 603)		
EO009 RECENT ADVANCES IN FINANCIAL ECONOMETRICS (Room 604)		
EO239 ANALYSIS CHALLENGES FOR COMPLEX FEATURED DATA (Room 605)		
EO123 NONSTATIONARY AND HIGH-DIMENSIONAL TIME SERIES: SOLUTIONS FOR CHALLENGES (Room 606)		
EO172 RECENT DEVELOPMENTS IN DEGRADATION ANALYSIS AND RELATED TOPICS II (Room 701)		
EO205 TOPICS IN MICROBIOME DATA ANALYSIS (Room 702)		
EO070 STATISTICAL ANALYSIS FOR DATA WITH COMPLEX STRUCTURES (Room 703)		
EO093 ADVANCED DEVELOPMENTS IN COMPLEX DATA ANALYSIS AND EXPERIMENTAL DESIGN (Room 704)		
EO079 STATISTICAL CHALLENGES FOR COMPLEX BRAIN SIGNALS AND IMAGES (Room 705)		
EO197 STATISTICAL METHODOLOGIES FOR INFINITE DIMENSIONAL DATA (Room 708)		
EO181 STATISTICAL LEARNING ON COMPLEX DATA (Room 709)		
<b>Parallel Session C – EcoSta2023</b>	<b>Tuesday 01.08.2023</b>	<b>13:20 - 15:00</b>
EI003 NEW DEVELOPMENTS OF BAYESIAN ECONOMETRICS AND STATISTICS (Room 102)		
EO044 HIGH DIMENSIONAL DATA ANALYSIS, COPULA ESTIMATION, AND GENETIC STATISTICS (Room 02)		
EO057 THE STEIN METHOD, LIMIT THEOREMS AND APPLICATIONS (Room 03)		
EO072 RECENT ADVANCES IN GAUSSIAN PROCESS THEORY AND APPLICATIONS (Room Virtual R01)		
EO225 ADVANCES IN BAYESIAN NONPARAMETRICS AND MODEL-BASED CLUSTERING (Room 503)		
EO195 RECENT ADVANCES IN STATISTICAL MODELING (Room 506)		
EO074 FISCAL AND MONETARY POLICIES (Room 603)		
EO196 RECENT ADVANCES IN METHODOLOGICAL ECONOMETRICS (Room 604)		
EO086 STATISTICAL THEORY FOR STOCHASTIC PROCESSES (Room 605)		
EO075 DEVELOPMENTS IN TIME SERIES MODELLING AND INFERENCE (Room 606)		
EO111 NETWORK DATA ANALYSIS (Room 701)		
EO064 STATISTICAL MODELS FOR COMPLEX BRAIN IMAGING DATA (Room 702)		
EO056 RECENT DEVELOPMENTS IN DESIGN OF EXPERIMENTS (Room 703)		
EO121 SKEW DISTRIBUTIONS ON THE CIRCLE AND THEIR APPLICATIONS (Room 704)		
EO238 SPATIAL STATISTICS (Room 705)		
EO240 ADVANCES IN FUNCTIONAL DATA ANALYSIS AND THEIR APPLICATIONS (Room 708)		
EO166 HIGH-DIMENSIONAL/SPATIAL TIME SERIES ANALYSIS: THEORY AND APPLICATIONS (Room 709)		
EC321 MULTI-STATE AND COX MODELS (Room 04)		
EC261 METHODOLOGICAL STATISTICS AND ECONOMETRICS (Room 201)		
EC329 TIME SERIES I (Room 203)		
<b>Parallel Session E – EcoSta2023</b>	<b>Tuesday 01.08.2023</b>	<b>16:30 - 18:35</b>
EV257 FINANCIAL ECONOMETRICS (VIRTUAL) (Room 701)		
EO138 LEARNING METHODS FOR LATENT STRUCTURES (Room 02)		
EO148 INNOVATIVE DESIGN AND ANALYSIS METHODS FOR OPTIMIZING HEALTHCARE (Room 03)		
EO234 RECENT ADVANCEMENTS IN RELIABILITY AND QUANTILE MODELING (Room 04)		
EO094 EXTREME VALUE ANALYSIS FOR COMPLEX DATA (Room Virtual R01)		
EO226 ASYMPTOTIC STATISTICS FOR STOCHASTIC PROCESSES (Room Virtual R02)		
EO063 EMERGING STATISTICAL APPROACHES TO IMPROVE THE DEVELOPMENT OF CULTIVARS (Room 102)		
EO247 INFERENCE AND PREDICTION IN BAYESIAN NONPARAMETRICS (Room 503)		
EO176 MATHEMATICS OF DATA SCIENCE (Room 506)		
EO036 CURRENT DEVELOPMENTS IN QUANTITATIVE FINANCE (Room 603)		
EO026 BAYESIAN COMPUTATION FOR COMPLEX MODELS (Room 604)		
EO089 RECENT ADVANCES IN TIME SERIES MODELING (Room 605)		
EO076 PROGRESS IN LEARNING AND MODELLING OF COMPLEX TIME SERIES AND SPATIAL DATA (Room 606)		

EO020 MULTIVARIATE PROBLEMS FOR STRUCTURED DEPENDENT DATA I (Room 702)  
 EO122 SPATIAL AND SPATIO-TEMPORAL METHODS (Room 703)  
 EO312 STATISTICAL DESIGN AND MODELING FOR LIFE AND CLIMATE SCIENCES (Room 704)  
 EO015 RECENT ADVANCES IN HIGH-DIMENSIONAL DATA ANALYSIS (Room 705)  
 EO178 NEW TOPICS IN MATHEMATICAL STATISTICS (Room 709)  
 EC324 APPLIED ECONOMETRICS I (Room 201)  
 EC319 MIXED MODELS (Room 203)  
 EC317 FUNCTIONAL DATA ANALYSIS (Room 708)

**Parallel Session F – EcoSta2023****Wednesday 02.08.2023****08:15 - 10:20**

EO252 RECENT ADVANCES IN STATISTICAL THEORY AND METHODS (Room 03)  
 EO008 RECENT ADVANCES IN CAUSAL INFERENCES (Room 04)  
 EO139 RECENT ADVANCES IN THE ANALYSIS OF DATA WITH COMPLEX STRUCTURES (Room Virtual R01)  
 EO090 ESTIMATION OF EIGENVECTORS AND COVARIANCE MATRICES IN HIGH DIMENSIONS (Room Virtual R02)  
 EO052 RECENT DEVELOPMENTS IN ESTIMATION METHODS: THEORY AND APPLICATIONS (Room 102)  
 EO050 WEIGHTING AND DYNAMIC APPROACHES TO CAUSAL INFERENCE (Room 201)  
 EO169 CAUSAL MACHINE LEARNING WITH HIGH DIMENSIONAL MODELING (Room 203)  
 EO227 ADVANCES IN BAYESIAN THEORY AND COMPUTING (Room 503)  
 EO193 RECENT ADVANCES AT THE INTERSECTION OF STATISTICS AND MACHINE LEARNING (Room 506)  
 EO128 APPLIED MATHEMATICS, STATISTICS, AND AI IN PORTFOLIO OPTIMIZATION (Room 603)  
 EO030 RECENT ADVANCES IN TIME SERIES ECONOMETRICS (Room 604)  
 EO216 STOCHASTIC FRONTIER AND PRODUCTIVITY ANALYSIS WITH PANEL DATA APPLICATIONS (Room 605)  
 EO149 RECENT ADVANCES IN TIME SERIES AND CHANGE-POINT ANALYSIS (Room 606)  
 EO177 RECENT DEVELOPMENT IN NETWORK DATA ANALYSIS (Room 702)  
 EO107 TRUSTWORTHY AND EFFICIENT MACHINE LEARNING (Room 703)  
 EO198 BAYESIAN STRUCTURE DISCOVERY (Room 704)  
 EO109 NOVEL METHODS, ALGORITHMS AND THEORY FOR HIGH-DIMENSIONAL DATA (Room 705)  
 EO083 NOVEL STATISTICAL APPROACHES TO BRAIN SIGNALS AND IMAGES (Room 708)  
 EO228 STATISTICAL ML IN CYBERSECURITY (Room 709)  
 EC323 DATA MINING AND EDUCATION (Room 02)  
 EC320 FORECASTING IN APPLICATIONS (Room 701)

**Parallel Session G – EcoSta2023****Wednesday 02.08.2023****10:50 - 12:30**

EV253 TIME SERIES AND SPATIAL STATISTICS (VIRTUAL) (Room 701)  
 EI002 MATHEMATICAL STATISTICS AND TIME SERIES ANALYSIS (Room 102)  
 EO124 NEW DEVELOPMENTS IN MICROBIOME RESEARCH (Room 02)  
 EO019 NEW ADVANCES IN STATISTICAL LEARNING FOR IMAGE, PROCESS AND CLINICAL DATA (Room 03)  
 EO308 OPTIMAL EXPERIMENTAL DESIGNS: RECENT ADVANCES AND APPLICATIONS (Room 04)  
 EO028 NEW CHALLENGES FOR COMPLEX AND LARGE-SCALE DATA (Room Virtual R01)  
 EO140 RECENT DEVELOPMENTS FOR MODELING HIGH-DIMENSIONAL AND COMPLEX DATA (Room Virtual R02)  
 EO185 RECENT ADVANCES IN CAUSAL INFERENCE AND MISSING DATA (Room 201)  
 EO202 STATISTICAL ADVANCES IN GENETIC EPIDEMIOLOGY (Room 203)  
 EO164 RECENT ADVANCES IN DESIGN AND ANALYSIS OF COMPLEX EXPERIMENTS (Room 503)  
 EO249 STATISTICS ON MANIFOLDS (Room 506)  
 EO014 STATISTICAL ANALYSIS IN CRIME, INSURANCE AND PRODUCTION (Room 603)  
 EO048 RECENT DEVELOPMENTS ON PANEL DATA ANALYSIS (Room 604)  
 EO108 NEW ADVANCES IN GAUSSIAN PROCESS MODELING AND COMPUTER EXPERIMENTS (Room 605)  
 EO129 ECONOMETRIC MODELING WITH TIME SERIES (Room 606)  
 EO098 DYNAMIC TOPOLOGICAL DATA ANALYSIS ON TIME SERIES DATA (Room 702)  
 EO103 ADVANCES IN NETWORK DATA ANALYSIS (Room 703)  
 EO088 ECOLOGICAL STATISTICS MODELING (Room 704)  
 EO065 THEORY AND METHODS FOR HIGH-DIMENSIONAL AND COMPLEX DATA (Room 705)  
 EO250 NEW STATISTICAL METHODS IN NEUROIMAGING (Room 708)  
 EO244 THE ART AND SCIENCE OF PREDICTIVE MODELING: FROM THEORY TO PRACTICE (Room 709)

**Parallel Session H – EcoSta2023****Wednesday 02.08.2023****14:00 - 15:40**

EV285 APPLIED ECONOMETRICS AND STATISTICS (Room Virtual R01)  
 EI004 ADVANCES IN BAYESIAN NONPARAMETRICS (Room 102)  
 EO171 JOINT MODELLING OF MULTI-OUTCOME DATA (Room 02)  
 EO251 ADVANCED STATISTICAL METHODS FOR BIOMEDICAL DATA (Room 03)  
 EO307 SURVIVAL ANALYSIS AND BIOMEDICAL STATISTICS (Room 04)  
 EO091 STATISTICAL METHODS AND DEPENDENCE IN SPACE AND/OR TIME (Room Virtual R02)  
 EO150 CAUSAL INFERENCE IN OBSERVATIONAL STUDIES (Room 201)  
 EO145 RECENT ADVANCES ON QUANTILE AND TAIL ANALYSIS (Room 203)  
 EO223 BAYESIAN MODELLING WITH MIXTURE MODELS (Room 503)  
 EO046 STATISTICAL LEARNING IN FINANCE (Room 506)  
 EO055 ECONOMETRICS AND STATISTICS FOR THE DIGITAL ASSET ECONOMY (Room 604)  
 EO134 RECENT DEVELOPMENTS IN TIME-SERIES AND ECONOMETRICS (Room 606)  
 EO119 NEW DIRECTIONS IN TIME SERIES ANALYSIS (Room 703)  
 EO136 RECENT ADVANCES OF HIGH-DIMENSIONAL DATA ANALYSIS (Room 705)  
 EO179 SNAPSHOT ON CURRENT FUNCTIONAL DATA METHODOLOGIES (Room 708)  
 EO151 RECENT ADVANCES IN PANEL DATA ECONOMETRICS (Room 709)  
 EC303 EMPIRICAL FINANCE (Room 603)  
 EC300 MACROECONOMETRICS (Room 605)  
 EC289 APPLIED STATISTICS (Room 701)  
 EC271 NETWORKS AND GRAPHICAL MODELS (Room 702)  
 EC260 COMPUTATIONAL STATISTICS AND ECONOMETRICS (Room 704)

**Parallel Session I – EcoSta2023****Wednesday 02.08.2023****16:10 - 17:50**

EO200 ADVANCES IN TIME SERIES ECONOMETRICS (Room 02)  
 EO099 HIGH DIMENSIONAL REGRESSION IN BIOMEDICAL APPLICATIONS (Room 03)  
 EO025 SURVIVAL ANALYSIS WITH MEDICAL AND HEALTH DATA SCIENCE (Room 04)  
 EO135 BAYESIAN NON-PARAMETRIC MODELLING WITH APPLICATIONS (Room Virtual R01)  
 EO100 MACHINE LEARNING THEORY AND ROBUSTNESS (Room Virtual R02)  
 EO201 TREATMENT EFFECT HETEROGENEITY AND RELATED TOPICS (Room 201)  
 EO222 ADVANCES IN GRAPHICAL MODELS (Room 203)  
 EO143 RECENT ADVANCES IN BAYESIAN METHODS: PREDICTION AND CAUSAL INFERENCE (Room 503)  
 EO313 FINANCIAL MODELLING IN CHANGING MARKET CONDITIONS (Room 603)  
 EO082 NEW ADVANCES IN TIME SERIES ECONOMETRICS: THEORY AND APPLICATIONS (Room 604)  
 EO246 ESTIMATION, INFERENCE AND FORECASTING IN PANEL DATA ANALYSIS (Room 605)  
 EO199 COMPLEX TIME SERIES (Room 606)  
 EO237 STATISTICS IN SPORTS (Room 701)  
 EO306 RECENT DEVELOPMENTS IN SPECTRAL IMAGE DATA ANALYSIS (Room 702)  
 EO067 SPATIAL AND NETWORK ECONOMETRICS (Room 703)



EO068 RECENT ADVANCES IN LARGE-SCALE DATA ANALYSIS (Room 705)  
 EO023 HIGH-DIMENSIONAL AND SPATIAL FUNCTIONAL DATA (Room 708)  
 EO120 ADVANCES IN TIME SERIES, RANDOM FORESTS AND CAUSAL INFERENCE (Room 709)  
 EC256 FINANCIAL ECONOMETRICS I (Room 102)  
 EC262 BAYESIAN METHODS (Room 506)  
 EC275 FORECASTING (Room 704)  
 EP326 POSTER SESSION I (Room Poster session I)

**Parallel Session J – EcoSta2023****Wednesday 02.08.2023****18:00 - 19:15**

EV263 BAYESIAN METHODS (VIRTUAL) (Room 102)  
 EV278 MACHINE LEARNING (VIRTUAL) (Room 203)  
 EO173 SURVIVAL ANALYSIS: THEORY AND METHODS (Room 04)  
 EO027 ASSET PRICING, AND RISK ATTITUDES TOWARDS RARE DISASTERS (Room Virtual R01)  
 EO144 ENVIRONMENTAL DATA MODELING, PREDICTION AND RISK ASSESSMENT (Room Virtual R02)  
 EO035 ADVANCES IN MODELLING ORDINAL AND MIXED-TYPE DATA (VIRTUAL) (Room 201)  
 EO021 ML IN ELECTRICITY PRICING, ACTUARIAL LOSS RESERVING AND EFFICIENCY ANALYSIS (Room 506)  
 EO066 RECENT ADVANCES IN ECONOMETRICS (Room 604)  
 EO045 HAWKES PROCESSES IN ECONOMETRICS AND STATISTICS (Room 605)  
 EO152 RANDOM MATRIX THEORY FOR COMPLEX DATA (VIRTUAL) (Room 702)  
 EO192 ADVANCES IN TIME SERIES AND SPATIAL DATA ANALYSIS (Room 703)  
 EO220 ESTIMATION FOR MODELS WITH COMPLEX STRUCTURAL DATA (Room 705)  
 EC325 NON-PARAMETRIC HYPOTHESIS TESTING (Room 02)  
 EC328 MISSING DATA (Room 03)  
 EC304 ASSET ALLOCATION (Room 503)  
 EC280 RISK ANALYSIS (Room 603)  
 EC315 ECONOMETRIC THEORY (Room 606)  
 EC299 STOCHASTIC VOLATILITY (Room 701)  
 EC190 TIME SERIES II (Room 704)  
 EC268 COMPLEX DATA ANALYSIS (Room 708)  
 EC267 HIGH-DIMENSIONAL DATA ANALYSIS (Room 709)

**Parallel Session K – EcoSta2023****Thursday 03.08.2023****07:30 - 09:10**

EV269 ESTIMATION AND INFERENCE (VIRTUAL) (Room 704)  
 EO125 MODERN STATISTICAL INFERENCE FOR COMPLEX DATA (VIRTUAL) (Room 03)  
 EO153 INTERPRETABLE STATISTICS AND ML FOR BIOLOGICAL AND BIOMEDICAL DATA (Room Virtual R01)  
 EO130 MODERN AND INNOVATIVE STATISTICAL LEARNING METHODS FOR COMPLEX DATA (Room Virtual R02)  
 EO118 HIGH-DIMENSIONAL MEDIATION ANALYSIS (Room 201)  
 EO101 CAUSAL INFERENCE: METHODS AND APPLICATIONS (VIRTUAL) (Room 203)  
 EO184 BAYESIAN METHODS AND SCALABLE COMPUTATION FOR EMERGING STUDIES (VIRTUAL) (Room 503)  
 EO233 ADVANCES IN MODEL-BASED CLUSTERING (Room 506)  
 EO182 RECENT ADVANCES IN NOWCASTING (VIRTUAL) (Room 603)  
 EO031 RECENT ADVANCES IN HIGH DIMENSIONAL TIME SERIES (VIRTUAL) (Room 604)  
 EO163 RECENT ADVANCES IN STOCHASTIC MODELLING (VIRTUAL) (Room 605)  
 EO029 RECENT ADVANCES IN TIME SERIES TREND AND CHANGE POINT ANALYSIS (VIRTUAL) (Room 606)  
 EO157 EFFICIENT METHODS FOR FITTING COMPLEX NETWORK MODELS (VIRTUAL) (Room 702)  
 EO037 RECENT ADVANCES IN HIGH-DIMENSIONAL STATISTICS AND MACHINE LEARNING (VIRTUAL) (Room 705)  
 EO127 RECENT ADVANCES IN FUNCTIONAL DATA ANALYSIS (VIRTUAL) (Room 708)  
 EO248 ADVANCES IN DIMENSION REDUCTION: THEORY AND APPLICATIONS (VIRTUAL) (Room 709)

**Parallel Session L – EcoSta2023****Thursday 03.08.2023****09:20 - 11:00**

EO010 LATENT VARIABLE MODELS AND APPLICATIONS (Room 02)  
 EO022 EARLY PHASE CANCER CLINICAL TRIAL DESIGNS AND REPORTING GUIDELINES (Room 03)  
 EO071 MODELING LONGITUDINAL AND TIME-TO-EVENT DATA: NEW DIRECTIONS AND INNOVATIONS (Room 04)  
 EO137 RECENT ADVANCES IN STATISTICAL METHODS IN BIOMEDICAL APPLICATIONS (Room Virtual R01)  
 EO159 MODERN MACHINE LEARNING METHODS DEALING WITH A VARIETY OF DATA ISSUES (Room Virtual R02)  
 EO115 NEW DEVELOPMENTS IN IMAGING AND GENETICS USING LARGE SCALE STUDIES (Room 102)  
 EO113 ECONOMETRICS AND STATISTICS ON UNOBSERVED HETEROGENEITY (Room 201)  
 EO061 CAUSAL MEDIATION ANALYSIS AND PRINCIPAL STRATIFICATION (Room 203)  
 EO210 LARGE-SCALE BAYESIAN INFERENCE (Room 503)  
 EO131 COMPLEX SPACE-TIME STRUCTURES WITH MODERN SPATIO-TEMPORAL STATISTICS (Room 506)  
 EO241 RECENT ADVANCES IN FUNCTIONAL DATA/ LONGITUDINAL DATA (Room 603)  
 EO133 RECENT CONTRIBUTIONS TO NONPARAMETRIC AND SEMIPARAMETRIC MODELS (Room 604)  
 EO106 STATISTICAL MODELING OF RELATION DATA (Room 605)  
 EO310 MULTIVARIATE PROBLEMS FOR STRUCTURED DEPENDENT DATA II (Room 606)  
 EO188 TOPICS IN GRAPHICAL MODELING (Room 701)  
 EO039 RECENT ADVANCES IN EXPERIMENTAL DESIGN AND ANALYSIS (Room 702)  
 EQ236 STATISTICAL NETWORK ANALYSIS I (Room 703)  
 EO162 MODERN DEVELOPMENT IN LONGITUDINAL/SURVIVAL DATA ANALYSES (Room 704)  
 EO034 RECENT ADVANCE OF HIGH-DIMENSIONAL STATISTICS (Room 705)  
 EO229 NEW ADVANCES IN FUNCTIONAL DATA ANALYSIS (Room 708)  
 EO016 METHODS FOR CAUSAL INFERENCE, PRECISION MEDICINE AND DIMENSION REDUCTION (Room 709)  
 EP001 POSTER SESSION II (Room Poster session II)

**Parallel Session N – EcoSta2023****Thursday 03.08.2023****13:40 - 14:55**

EO211 ADVANCES IN STATISTICS (Room 02)  
 EQ214 RECENT DEVELOPMENTS IN COMPLEX DATA ANALYSIS (Room 03)  
 EO309 RECENT DEVELOPMENTS IN HIGH-DIMENSIONAL CHANGE POINT ANALYSIS (Room Virtual R01)  
 EO013 RECENT DEVELOPMENTS IN BAYESIAN METHODS AND HIGH-DIMENSIONAL STATISTICS (Room 102)  
 EO058 CAUSAL INFERENCE (Room 201)  
 EO219 CHECKING FOR MODEL STRUCTURAL CHANGE IN HIGH-DIMENSIONAL DATA (Room 203)  
 EO069 RECENT ADVANCES IN BAYESIAN ANALYSIS (Room 503)  
 EO110 RECENT ADVANCES IN HIGH-DIMENSIONAL ECONOMETRICS (Room 506)  
 EO043 ADVANCES IN LARGE-SCALE INFERENCE (Room 603)  
 EO042 CRYPTOCURRENCY, RENEWABLE ENERGY AND EFFICIENCY (Room 604)  
 EO142 STATISTICAL INFERENCE FOR NONSTATIONARY DATA STRUCTURES (Room 605)  
 EO084 ADVANCES IN BUSINESS ANALYTICS (Room 606)  
 EQ232 RECENT DEVELOPMENTS IN ECONOMETRIC THEORY (Room 701)  
 EO097 MODERN STATISTICAL METHODS FOR LONGITUDINAL AND IMAGING DATA (Room 702)  
 EO235 STATISTICAL NETWORK ANALYSIS II (Room 703)  
 EQ213 RECENT ADVANCES IN FINANCIAL BIG DATA ANALYSIS (Room 704)  
 EO038 RECENT ADVANCES IN CLUSTERING AND HIGH DIMENSIONAL DATA ANALYSIS (Room 705)  
 EO040 STATISTICAL METHODS FOR FUNCTIONAL OBSERVATIONS (Room 708)  
 EO060 NEW CHALLENGES AND INSIGHTS IN HIGH-DIMENSIONAL STATISTICS (Room 709)  
 EC322 CENSORED DATA (Room 04)

**Parallel Session O – EcoSta2023****Thursday 03.08.2023****15:25 - 17:05**

EV274 MODELLING AND FORECASTING (Room Virtual R02)  
EQ017 TEXT DATA (Room 02)  
EO132 EXTREME RISK MEASURES ESTIMATION IN VARIOUS ATTRACTION DOMAINS (Room Virtual R01)  
EO218 FORECAST COMBINATION (Room 603)  
EO080 RECENT DEVELOPMENTS IN TIME SERIES ECONOMETRICS (Room 604)  
EO147 PROBABILITY AND STOCHASTIC GEOMETRY WITH STATISTICAL APPLICATIONS (Room 605)  
EO095 ADVANCES IN COMPLEX TIME SERIES ANALYSIS (Room 606)  
EO102 REPEATED MEASURES, FDA, NONPARAMETRIC REGRESSION, AND REGULARIZED T-TEST (Room 702)  
EO024 STATISTICAL NETWORK ANALYSIS III (Room 703)  
EO168 RECENT ADVANCES IN HIGH-DIMENSIONAL AND DEPENDENT DATA ANALYSIS (Room 705)  
EO311 HIGH-DIMENSIONAL DATA ANALYSIS WITH CLUSTER STRUCTURE (Room 708)  
EO087 RECENT DEVELOPMENTS IN INSURANCE STATISTICS (Room 709)  
EC292 BIOSTATISTICS (Room 03)  
EC276 SURVIVAL ANALYSIS (Room 04)  
EC272 MULTIVARIATE STATISTICS (Room 102)  
EC283 NON- AND SEMI-PARAMETRIC METHODS (Room 201)  
EC284 APPLIED ECONOMETRICS II (Room 203)  
EC318 BAYESIAN MODELLING AND INFERENCE (Room 503)  
EC279 MACHINE LEARNING IN ECONOMICS AND FINANCE (Room 506)  
EC295 FINANCIAL ECONOMETRICS II (Room 701)  
EC296 ECONOMETRIC AND STATISTICAL MODELLING (Room 704)  
EP327 POSTER SESSION III (Room Poster session III)