



International Congress on
Statistics, Stochastic Analysis, and Data Science (SSADS'25)
Faculty of Science, Department of Mathematics, Amphitheater G
October 15 – 16, 2025, Oujda Morocco

Scientific Program

Wednesday, October 15

Time	Activity
08:00–09:00	Reception and Registration
09:00–09:30	Opening Ceremony
09:30–10:10	Plenary Session 1: Prof. Sophie Dabo-Niang, France Dimension reduction properties and supervised learning of complex Functional Data
10:10–10:30	Coffee Break
10:30–11:10	Plenary Session 2: Prof. Mohammed El Haj Tirari, Morocco The use of weighting to improve data representation and generalization of machine learning models
11:10–12:50	Session I
12:50–14:50	Lunch
14:50–15:30	Plenary Session 3: Prof. Mohamed Nadif, France A Concise Overview of Multi-View Clustering
15:30–17:10	Session II
17:10–17:30	Coffee Break
17:30–19:10	Session III

Thursday, October 16

Time	Activity
09:00–09:40	Plenary Session 4: Prof. Nicole El Karoui, France Forward Stochastic Utility. A Unifying Framework for Choice Theory, and Portfolio Optimization
09:40–10:20	Plenary Session 5: Prof. Josep Vives, Spain Computation of Greeks under Rough Volterra Stochastic Volatility Models Using the Malliavin Calculus Approach
10:20–10:40	Coffee Break
10:40–12:50	Session IV
12:50–14:50	Lunch
14:50–15:30	Plenary Session 6: Prof. Xavier Bardina, Spain Stochastic Models for Bacteriophage Systems
15:30–16:30	Session V
16:30–16:50	Coffee Break
16:50–18:10	Session VI
18:10	Closing of the Congress

Wednesday October 15

Time	AMPHI G – FSO	
8h00-9h00	Reception and Registration	
9h00-9h30	Opening Ceremony	
9h30-10h10	PL1 : Pr. Sophie Dabo-Niang Chair : Pr. Nouredine Rhomari Dimension reduction properties and supervised learning of complex Functional Data	
10h10-10h30	Coffee break (FSO)	
10h30-11h10	PL2 : Pr. Mohammed El Haj Tirari Chair : Pr. Said El Melhaoui The use of weighting to improve data representation and generalization of machine learning Models	
Session I		Chair : Pr. Mohammed Badaoui
11h10-11h30	I-1	Idir Ouassou : Adaptive ridge estimators for constrained models with spherically symmetric errors
11h30-11h50	I-2	Stephane Bouka : Non Parametric Breakpoint Detection for Weakly Dependent Spatiotemporal Series
11h50-12h10	I-3	Aziz Lmakri : Detecting Threshold Effects in Short Panel Data An Environmental Application
12h10-12h30	I-4	Marouane Insaf : Comparative Study of GSTAR and QSTAR Spatio-Temporal Models
12h30-12h50	I-5	Imane Salhi : Forecasting Crude Oil Prices with a Hybrid LSTM_RCA Approach
12h50-14h50	Lunch (CRI)	
14h50-15h30	PL3 : Pr. Mohamed Nadif Chair : Pr. Driss Driouchi A Concise Overview of Multi-View Clustering	
Session II		Chair : Pr. Mohamed Derouch
15h30-15h50	II-1	Mory Ouattara : Sparse Feature Grouping KMeans (SFGKM)
15h50-16h10	II-2	Zineb Khaldoun : Advances in Feature Selection through Fuzzy Rough Set Theory
16h10-16h30	II-3	Abdellah Amzil : Stochastic Modeling and Machine Learning for Low-Latency Healthcare Monitoring in Fog-Cloud Architectures
16h30-16h50	II-4	Cherifa Fatima Choukhan : Advanced Models for the Diagnosis and Forecasting of Infectious Diseases: The Case of SARS-Cov-2
16h50-17h10	II-5	Abdelmounaim Kerkri : Machine Learning Prediction of Chronic Kidney Disease Development from Electronic Health Records: A Multi-Algorithm Comparison and Feature Analysis

17h10-17h30	Coffee break (FSO)	
Session III		Chair : Pr. Moustapha Faizi
17h30-17h50	III-1	Safaa Kahil : The Impact of Preprocessing and Hyperparameter Tuning in Time Series Modeling
17h50-18h10	III-2	Lahcen Ait mensseur : Financial Integration and Segmentation among Stock Markets: Developed, Emerging, and Frontier (Application of Cointegration Tests)
18h10-18h30	III-3	Bouchra Labloul : An extreme value theory under exponential normalization: A study based on CAC 40 index
18h30-18h50	III-4	Khawla Belarrem : Handling Imbalanced Datasets: Weighted vs Resampled Probit Estimators, an Application on WBES Morocco 2023
18h50-19h10	III-5	Soumia Ngadi : Generalized Bézier Curves Based on Exponential B-splines and Applications to Neural Networks

Thursday October 16

Time	AMPHI G - FSO	
09h00-09h40	PL4 : Pr. Nicole El Karoui Forward Stochastic Utility. A Unifying Framework for Choice Theory, and Portfolio Optimization	
09h40-10h20	PL5 : Pr. Josep Vives Computation of Greeks under Rough Volterra Stochastic Volatility Models Using the Malliavin Calculus Approach	
10h20-10h40	Coffee break (FSO)	
Session IV		Chair : Pr. Soufiane Moussaten
10h40-11h00	IV-1	Abdelhadi Es-Sarhir : Ergodicity for a class of semilinear diffusion in infinite dimension
11h00-11h20	IV-2	Samir El Mouchid : Absolute continuity of invariant measures for semilinear diffusion in Hilbert spaces
11h20-11h40	IV-3	Abderrahim Aslimani : Formal proof of the approximation of a random phenomenon by a chaotic phenomenon
11h40-12h00	IV-4	Badr Elmansouri : Doubly Reflected BSDEs with default time under stochastic Lipschitz coefficients and Applications
12h00-12h20	IV-5	Hajar Ahalli : L2-estimates for the Local Time of Fractional Brownian Motion with Respect to the Hurst Parameter
12h20-12h40	IV-6	Mohamed Bounouira : Kolmos theorem for Pettis integrable multifunctions
12h40-14h40	Lunch (CRI)	

14h40-15h20	PL6 : Pr. Xavier Bardina Stochastic Models for Bacteriophage Systems		Chair : Pr. Abdessalam Boutayeb
Session V			Chair : Pr. Ahmed Ouazza
15h20-15h40	V-1	Rim Adenane : Calibration and Comparison of SIR, SEIR/SLIR, and SLAIR Models for In_uenza Dynamics: Insights from the 2016-2017 Season in the Valencian Community, Spain	
15h40-16h00	V-2	Nafia Aghoutane : Dynamical analysis of a stochastic SEIR model with half-saturated incidence rate influenced by non-linear Lévy jumps	
16h00-16h20	V-3	Mohamed El Yahyaoui : Mathematical Modeling of Labor Market Dynamics: Deterministic and Stochastic Perspectives	
16h20-16h40	Coffee break (FSO)		
Session VI			Chair : Pr. Aslimani Abderrahim
16h40-17h00	VI-1	Mohamed Baroudi : Dynamics and Control Strategies of Measles: A Mathematical Approach	
17h00-17h20	VI-2	Ouafae Ouaali : A Numerical Scheme for Nonlinear Stochastic Volterra Integral Equations with Weakly Singular Kernels	
17h20-17h40	VI-3	Benasquar Mohamed : Stochastic modeling of group testing with random total sample size	
17h40-18h00	VI-4	Hala Kharkhour : Spectral Analysis of Fractional Gaussian Processes in Biomedical Imaging with Applications	