

• Djillali Liabès University — Sidi Bel Abbès, Algeria

ICSA'2026

CONFERENCE PROGRAM

First International Conference on Statistics
and Its Applications

• April 8–9, 2026

~ Hybrid — In-Person & Online

• Sidi Bel Abbès

Organized by

Statistics and Stochastic Processes Laboratory

Faculty of Exact Sciences
Djillali Liabès University

General Chair: Dr. Sid Ahmed Benchiha



• Conference Website

• **Scan to Access**

- icsa2026@univ-sba.dz
- www.univ-sba.dz/icsa2026/
- April 8–9, 2026

Program, abstracts & online access

Scopus

• Registration & Welcome

- 08:30 – 09:00** Check-in, badge collection & distribution of conference kits
- Main Entrance Hall — The Central Library “Abbouni Bouziane” of the University Campus

• Opening Ceremony

- 09:00** Quran Recitation followed by the National Algerian Anthem
- 09:10 – 09:20** **Dr. Benchiha Sid Ahmed** *President, Organizing Committee*
Opening remarks and overview of ICSA 2026 objectives and scope
- 09:20 – 09:30** **Prof. Attouch Mohammed Kadi** *Dean, Faculty of Exact Sciences*
Address from the Faculty
- 09:30 – 09:40** **Prof. Bouziani Merahi** *Rector, Djillali Liabès University*
Official welcome and remarks on the academic significance of the conference
- 09:40 – 09:50** **Prof. Guendouzi Toufik** *Secretary General of Ministry of Higher Education and Scientific Research*
Message on behalf of the Ministry
- 09:50 – 10:00** **Prof. Oukaci Kamel** *Director General, National Office of Statistics*
Inaugural Address
- 10:00 – 10:10** **Mr. Hadji Kamel** *Wali of Sidi Bel Abbes*
Formal declaration of the conference opening
- Signature of the Convention between Djillali Liabès University and Higher National School of Statistics and Applied Economics — 10:10
- Official Group Photo — 10:20

• Coffee Break #1 — Welcome Coffee

- 10:20 – 10:45** Refreshments served in the main hall • The “Abbouni Bouziane” central library on the university campus

★ Plenary Lecture 1

- 10:45 – 11:30** **Prof. Fouad Ben Abdelaziz** *NEOMA Business School, France*
Title: Multiobjective Stochastic Optimization: An Application to Portfolio Selection. ▷ **Chairman:** Prof. Tebboune Fethallah Ouahbi, Prof. Yousfate Abderrahmane, Prof. Toumache Rachid ▷ [Live stream — online participants](#)

★ Plenary Lecture 2

- 11:30 – 12:30** **Prof. Salim Bouzebda** *Université de Technologie de Compiègne, France*
Title: Recent Advances in U-Processes and Related Topics ▷ **Chairman:** Prof. Toufik Guendouzi, Prof. Oukaci Kamel, Prof. Bouziani Merahi ▷ [Live stream — online participants](#)

★ Lunch Break

- 12:30 – 14:00** Seated lunch served at Eden Hôtel restaurant

14:00 – 17:00

Seven sessions running simultaneously. *Full presenter & paper details: see Session Details at end.*

IN-PERSON

Session A-1 Eden Hôtel Hall 1

pres. **IN-PERSON**

▷ **Chairman:** Prof. Abdeldjebbar Kandouci, Prof. Samir Benaissa

Session A-2 Eden Hôtel Hall 2

pres. **IN-PERSON**

▷ **Chairman:** Prof. Ouahab Abdelghani, Prof. Boukhetala Kamel

Session A-3 Eden Hôtel Hall 3

pres. **IN-PERSON**

▷ **Chairman:** Prof. Sofiane Boukli Hacene, Prof. M'hamed Sahnoun

ONLINE

Session A-4 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Khobzaoui Abdelkader

Session A-5 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Semmar Sihem

Session A-6 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Allal Anis

Session A-7 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Righi Ali

o Coffee Break #2 — Afternoon

17:00 – 17:30

Afternoon refreshments • Eden Hôtel Hall

• Poster Session 1 — Day 1

17:00 – 17:30

Interactive poster displays and discussions with authors

- Poster boards located in the Main Hall
- Authors available at their posters during this session

★ **Plenary Lecture 3**

09:00 – 09:45 **Prof. M'hammed Sahnoun** *Research and Innovation Department, Rouen Campus, France*
 Title: Human-Centric Industry 5.0: Stochastic Modeling and Optimization for Resilient Industrial Systems.▷ **Chairman:** Prof. Faraoun Kamel Mohammed , Prof. Benchikh Tawfik ▷ [Live stream — online participants](#)

★ **Plenary Lecture 4**

09:45 – 10:30 **Prof. Kamel Boukhetala** *Laboratoire MSTD, Faculté de Mathématiques, USTHB CRMA U. Sidi Abdellah, membre permanent du Conseil National des Assurances, Ministère des Finances.*
 Title: La modélisation stochastique instrument décisionnel pour la gestion du volume des réserves de contrats d'assurances selon la norme IFRS' 17.▷ **Chairman:** Prof. Benchohra Mouffak ,Prof. Chouaf Abdelhak ▷ [Live stream — online participants](#)

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○ **Coffee Break #3**

10:30 – 11:00 Morning refreshments • Main Hall

★ **Plenary Lecture 5**

11:00 – 11:45 **Prof. Andrei Volodin** *University of Regina, Canada*
 Title: Risk ratio, cross-product ratio, and Yule's Q for different sampling schemes ▷ **Chairman:** Prof. Rabhi Abbes Boubaker, Prof. Bouchentouf Amina Angelika ▷ [Live stream — online participants](#)

★ **Plenary Lecture 6**

11:45 – 12:30 **Prof. Merouane Debbah** *President of the Algerian AI Scientific Council*
 Title: Pioneering Intelligent Connectivity for the Future of Generative AI ▷ **Chairman:** Prof. Sofiane Boukli Hacene, Prof. Attouch Mohammed Kadi
 ▷ [Live stream — online participants](#)

★ **Lunch Break**

12:30 – 14:00 Seated lunch served at the Eden Hôtel restaurant

14:00 – 16:00

Seven sessions running simultaneously. *Full presenter & paper details: see Session Details at end.*

IN-PERSON

Session B-1 Eden Hôtel Hall 1

pres. **IN-PERSON**

▷ **Chairman:** Prof. Mechab Boubaker, Prof. Allam Abdelaziz

Session B-2 Eden Hôtel Hall 2

pres. **IN-PERSON**

▷ **Chairman:** Prof. Limam-Belarbi Faiza, Prof. Salim Bouzebda

Session B-3 Eden Hôtel Hall 3

pres. **IN-PERSON**

▷ **Chairman:** Dr. Hamri Mehdi Mohamed, Prof. Fouad Ben Abdelaziz

ONLINE

Session B-4 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Baouche Mohamed El Ouard

Session B-5 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Fetitah Omar

Session B-6 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Fahsi Mahmoud

Session B-7 Join Session

pres. **ONLINE**

▷ **Chairman:** Dr. Benchiha Abbassia

o **Coffee Break #4**

16:00 – 16:30

Afternoon refreshments • Main Hall

• **Poster Session 2 — Day 2**

16:00 – 16:30

Interactive poster displays and discussions with authors

- Poster boards located in the Main Hall
- Authors available at their posters during this session

* **Closing Ceremony**

16:30 – 17:00

Session A-1 **IN-PERSON** —

▷ **Chairman:** Prof. Abdeldjebbar Kandouci, Prof. Benaissa Samir

#	Presenter(s)	Paper Title
1	Benaouda Oumelkheir	<i>Strong Uniform Consistence of Limit Theorems for Kernel Regression Estimator for Quasi-Associated Functional Censored Time Series Within Single Index Structure</i>
2	Limam-Belarbi Faiza	<i>Asymptotic Properties of a Single Index Estimator with Functional Covariates and Doubly Censored Data</i>
3	Benchiha Abbassia	<i>Approximation of Functional Regression with Missing Data at Random: Dependent Case</i>
4	Kada Zair Mohamed Amine	<i>Uniform Convergence of a Nonparametric Robust Estimator under Dependence with Functional Regressor and Response</i>
5	Messabihi Nafissa	<i>Relative Error Regression under Spatial Dependence and MAR Responses</i>
6	Djerfi Kouider	<i>On Hybrid Hazard Rate Estimation</i>
7	Bensmain Nawel	<i>On Estimation of Functional Autoregressive Process</i>

▷ **Chairman:** Prof. Ouahab Abdelghani, Prof. Boukhetala Kamel

#	Presenter(s)	Paper Title
1	Bouaka Aicha	<i>Limiting Distributions Associated with Brownian Motion</i>
2	Benaissa Fadila	<i>Martingale-Based Convergence Analysis of the Wolverton-Wagner Recursive Density Estimator</i>
3	Balaska Lamia	<i>Statistical Inference for a Diffusion-Type Process with Delay</i>
4	Hadjou Belaid Asma	<i>Stochastic Differential Equations Applied to Population Dynamics under Environmental Fluctuations</i>
5	Djillali Seba	<i>Tempered Generalized Harmonically Weighted Process</i>
6	Abbaci Younsi Leila	<i>An Exact Algorithm for Interval Fractional Optimization under Chance-Constrained Multi-Objective Stochastic Programming</i>
7	Barache Bahia	<i>Almost Complete Convergence of the Solution of Fredholm's Integro-Differential Equations using Mann's Stochastic Scheme</i>

▷ **Chairman:** Prof. Sofiane Boukli Hacene, Prof. M'hamed Sahnoun

#	Presenter(s)	Paper Title
1	Graba Dalila Djoher	<i>Bio-Inspired Hybrid Deep Learning for Credit Card Fraud Detection: A State-of-the-Art Review and Conceptual TCN-LSTM Framework</i>
2	Hallam Mama	<i>Statistical Inference and Machine Learning-Based Performance Prediction for an M/M/1 Queue with Working Vacations, Balking, and Feedback</i>
3	Ladlani Randa	<i>FA-ED: A Feature Attention Encoder-Decoder for Natural Gas Consumption Forecasting</i>
4	Nait Chalal Mohamed Hichem	<i>IBIGP vs CNN for Incipient Brain Anomaly Detection in MRI</i>
5	Sassi Mohammed Miloud Moussa	<i>Automatic Detection of Epileptic Seizures from EEG Signals</i>
6	Belgheir Imene	<i>Canonical Correlation Analysis for Early Parkinson's Disease Detection: A Signal-Level Multimodal Fusion Framework</i>
7	Hadj Djilani Mossaab	<i>Modeling Professional Communication Performance Using AI and Statistical Analysis: Evidence from the Algerian Oil and Gas Sector</i>

▷ Chairman: Dr. Khobzaoui Abdelkader

#	Presenter(s)	Paper Title
1	Amokrane Zina	<i>Statistical Assessment of Explainability Robustness in Machine Learning Models for Cardiovascular Disease Prediction</i>
2	Bensaoula Hadjer Imene	<i>Investigating the Usage of Online Ensemble Classifiers for Efficient Healthcare Data Stream Classification</i>
3	Bezzaoucha Fatima Souad	<i>Explainable AI in Wind Turbine Fault Detection: A Systematic Literature Review</i>
4	Boutlilis Khadra	<i>Comparative Analysis of Data Curation Platforms: Artificial Intelligence vs Human Intelligence</i>
5	Messaoudi Dhayaeddine	<i>Stochastic CNN-SDE Model for Robust Character Level Arabic POS Tagging</i>
6	Hadri Lylia	<i>Unsupervised Entity Types Discovery using Graph and Contextual Embeddings for LLM-Based Schema Construction</i>
7	Khedimi Somia	<i>CamelBERT for Arabic Medical Question Classification</i>
8	Imedjdouben Fayçal	<i>Arabic Corpus Processing for Use in Machine Learning</i>
9	Attari Selma	<i>AI-Based Estimation & Prediction in Dynamic Mixed Models for Longitudinal Data</i>
10	Bouhata Djamila and Moumen Hamouma	<i>Popularity-Aware Evaluation of Geometric Median Aggregation in Federated Recommendation</i>

▷ Chairman: Dr. Semmar Sihem

#	Presenter(s)	Paper Title
1	Affane Setti Louiza	<i>Nonparametric Estimation of the Conditional Hazard Function for Incomplete Data</i>
2	Maloum Aghiles	<i>Conditional Copula Modelling with Random Right-Censored Margins: A Semiparametric Approach</i>
3	Akrimi Ahmed	<i>A Supervised Learning Strategy for Bandwidth Selection in Local Linear Estimation of the Functional Regression Model with Missing Data</i>
4	Kenouza Jamel	<i>A Supervised Learning Strategy for Bandwidth Selection in Functional Local Linear Estimation of the Conditional Hazard Function with Missing Data</i>
5	Belhas Hadjer	<i>Asymptotic Theory for Multivariate Nonparametric Quantile Regression</i>
6	Afroun Faïrouz	<i>Nonparametric Estimation of the Reliability Characteristics of a Standby System</i>
7	Ladaouri Nour El-Hayet	<i>Calculate the Smoothing Parameter in the Kernel Estimation of the Conditional Density Function</i>
8	Abeiza Chaima	<i>Bias-Reduced Tail Index Estimation for Randomly Right-Truncated Heavy-Tailed Data</i>
9	Zitout Yasmina	<i>Gamma Kernel-Based Estimation of Parallel System and ANFIS Computing of Availability Density</i>
10	Abdouche Safia	<i>From Standardization to Power Transformation: Evaluating the Impact of Data Scaling on Model Performance</i>

▷ Chairman: Dr. Allal Anis

#	Presenter(s)	Paper Title
1	Kali Abdesselam	<i>Minimizing Expected Tardiness in Single-Machine Scheduling with Stochastic Job Processing-Times</i>
2	Hakim Maroua	<i>Metaheuristic Approaches to Solve the Fixed Charge Transportation Problem</i>
3	Boussaid Ibrahim	<i>Comparative Performance Evaluation of PSO and GWO Algorithms for Optimizing Fractional-Order PI Sliding Mode Controllers in DFIG Wind Energy Systems</i>
4	Rabia Lydia	<i>Adaptive Parameter Control for NSGA-II using Reinforcement Learning: Application to Multi-Objective Set Covering Problem</i>
5	Mamar Samia	<i>Optimization of the Regularization Parameter for SVM-Based Outlier Detection</i>
6	Meansri Khaoula	<i>New Method of Conjugate Gradient Coefficient with Modified Condition for Solving Unconstrained Optimization</i>
7	Hammouda Saïd	<i>Modularity-Based Detection in the Dial-A-Ride Problem with Transfer Centers</i>
8	Lama Rahma	<i>MO-BDOA: A Multi-Objective Binary Dream Optimization Algorithm for Robust Cancer Gene Selection</i>
9	Benziane Sarah	<i>A Hybrid Statistical-Learning Framework for Multi-Objective Optimization: Integrating Deep Neural Networks with Fuzzy Inference for Eco-Efficient Material Design</i>

▷ **Chairman:** Dr. Righi Ali

#	Presenter(s)	Paper Title
1	Aissaoui Faris	<i>Consistency of the QMLE for Several Locally Stationary Autoregressive Processes Using Monte Carlo Simulations</i>
2	Laiche Nabil	<i>Estimation of Bilinear Time Series Models Driven by GARCH(1,1) and GJR-GARCH Noise Processes: Simulation with TDA</i>
3	Graiche Farid	<i>Epidemic Change in Autoregressive Process with Weakly Dependent Innovations</i>
4	Bouni Nora	<i>On a Spectral Density Estimator-Based Similarity Test for Correlated Time Series</i>
5	Khettab Zahira	<i>Kernel Estimate of Spectral Density Functions of Sample Covariance Matrices with Relaxed Independence Conditions</i>
6	Aouri Atika	<i>A Comparative Simulation Study of EM Algorithm and Local Linear Least Squares for Spatiotemporal GARCH Models</i>
7	Ouicher Fahima	<i>An Exact Method Using Toeplitz Matrices for Autoregressive Modeling</i>
8	Sadoun Mohamed	<i>Local Asymptotic Normality for Optimal Nonlinearity Testing in Self-Excited Threshold Generalized Integer-Valued Autoregressive Models</i>
9	Bassoudi Mohammed	<i>Theoretical Analysis of Regression Estimation under Correlated Errors</i>

Session B-1 **IN-PERSON** —

▷ **Chairman:** Prof. Mechab Boubaker, Prof. Allam Abdelaziz

#	Presenter(s)	Paper Title
1	Takhedmit Baya	<i>Pricing of Basket Options Model using Finance-Informed Neural Networks (FINN)</i>
2	Khalfallah Mohammed El-Arbi	<i>Alpha Power One-Parameter Weibull Distribution: Its Properties, Simulations and Applications</i>
3	Benkamra Zohra	<i>Best-Fixed and Sequential Design for Estimating the Sum of Two Exponential Rate Parameters with Sampling Cost</i>
4	Guermah Toufik	<i>Spatial Extreme Values Modeling by Smith and Brown-Resnick Max-Stable Processes (Case Study: Maximum Yearly Rainfall in Chlef Region)</i>
5	Haddouche Hesna	<i>Generation of Numerical Experiment Designs Based on Shot Noise Weighted Point Processes</i>
6	Djeridi Zohra	<i>A Multi-Stage Predictive Framework for Quality Control Using Hypothesis Testing</i>

▷ **Chairman:** Prof Limam-Belarbi Faiza, Prof. Salim Bouzebda

#	Presenter(s)	Paper Title
1	Kaci Chalah	<i>Workability and Compressive Strength of Concrete Material from Crushed Sand and Dune Sand: Experimental and Analytical Study</i>
2	Meradji Selma	<i>Stability of Swelling Soils According to the Lord–Shulman Model with Consideration of Microtemperatures</i>
3	Ouedjedi Yamina	<i>Caputo Time Fractional Non-Linear Reaction Diffusion Equations</i>
4	Ouadah Saliha	<i>Dynamique de la Population en Algérie : Analyse Statistique et Tendances Démographiques</i>
5	Dich Anfal Amira	<i>A Logistic Growth Model for Slang Diffusion in Algerian Digital Spaces: A Comparative Statistical Analysis of Reddit and TikTok</i>
6	Chergui Zhor	<i>Enhanced FUCOM Methods for Interval Data Priority Modeling: Comparative Evaluation and Guidance</i>

▷ **Chairman:** Dr. Hamri Mehdi Mohamed, Prof. Fouad Ben Abdelaziz

#	Presenter(s)	Paper Title
1	Abrous Mohammed	<i>Statistical Performance Analysis of Hybrid OFDM/CDMA Systems Using Adaptive K-Means</i>
2	Benaissa Mohamed	<i>Encryption of Audio Stream (Wav File) by Cryptographic Algorithms Followed by a Comparative Study</i>
3	Khellat-Kihel Souad	<i>Secure and Explainable Face Liveness Detection for Intelligent Systems: A Biologically-Inspired Spatio-Temporal Approach</i>
4	Nemmich Mohamed Amine	<i>Coverage Maximization for Wireless Sensor Networks using a Learning-Inspired Coati Optimization Algorithm</i>
5	Boukhari Noureddine	<i>Enhancing the Crested Ibis Algorithm via an Adaptive Trend-Aware Trajectory Mechanism for Complex Global Optimization</i>
6	Aidene Zahia	<i>RIP-Based Low-Rank Matrix Recovery under Noise Folding and Perturbation with Truncated Nuclear-Frobenius Regularization</i>

▷ **Chairman:** Dr. Baouche Mohamed El Ouard

#	Presenter(s)	Paper Title
1	Ahmed Yahia Rakia	<i>Controllability Result for Second-Order Neutral Stochastic Differential Equations with Non-Lipschitz Coefficient Driven by Rosenblatt Process</i>
2	Atil Abdelmadjid	<i>Reaction–Diffusion SIR with Saturated Incidence: Global Stability, R_0, and Uncertainty Quantification</i>
3	Bellaoui Oum Kelthoum	<i>Analysis of Mild Solutions for Random Fractional Evolution Equations in Banach Spaces</i>
4	Berrighi Fatma	<i>A Fixed Point Approach to Conformable Fractional Functional Evolution Equations in Separable Banach Spaces</i>
5	Dehamnia Abdelhakim	<i>Space-Time Multiscale Model of Second Order SPDEs</i>
6	Souar Moussa	<i>The Regularity of Solutions to Fractional Stochastic Differential Equations</i>
7	Messaoudi Djemaa	<i>A Saddle-Point Approach for the Simultaneous Reconstruction of Diffusion and Reaction Coefficients in Parabolic Systems</i>
8	Aimene Imad	<i>A Study on the Qualitative Properties of Solutions to Nonlinear Plate Equations</i>
9	Zitouni Mohamed	<i>Ground State Solutions for a Kirchhoff-Type $p(x)$-Laplacian System Using the Nehari Manifold Method</i>
10	Tadj Moustafa	<i>λ-Affine Harmonic Maps on Flat Statistical Manifolds</i>

▷ **Chairman:** Dr. Fetitah Omar

#	Presenter(s)	Paper Title
1	Benkhadra Sana	<i>Advanced Estimation Methods for the Three-Parameter Weibull Model: MLE, LSE and Supervised Machine Learning</i>
2	Raghdi Mourad and Kouadria Mohamed	<i>Generalized Beta-New XLindley Distribution: Mathematical Properties and Application in Medicine</i>
3	Grine Razika	<i>Une version biaisée par la taille d'une nouvelle distribution à un paramètre</i>
4	Mecene Rahmouna	<i>The Sine-Skewed Power Gamma Distribution: A Flexible Model for Heavy-Tailed and Asymmetric Data</i>
5	Laifa Djamilia	<i>Maximum Likelihood Estimation of Archimedean Copulas: Evidence from Financial Market Returns</i>
6	Bouaziz Asma	<i>A Modified Chi-Square Test for Repairable System of Bi-Weibull Model</i>
7	Grabsia Imen	<i>A New Compound Poisson Process: Properties and Applications</i>
8	Manseur Sara	<i>Asymptotic Analysis of Rare Events via Large Deviations</i>
9	Guettai Ghania	<i>Probabilistic Representation for Generalized Bell Polynomials</i>

▷ **Chairman:** Dr. Fahsi Mahmoud

#	Presenter(s)	Paper Title
1	Bensalem Amel	<i>Forecasting Urban Growth Using a CA–Markov Model: A Case Study of Sétif, Algeria</i>
2	Nichani Rabiaa	<i>Comparing LSTM and CNN-LSTM Models for Wavelet-Based Stock Forecasting</i>
3	Tabet Helal Chifaa Fouzia	<i>Develop an Efficient Routing Scheme Based on Machine Learning Techniques for Wireless Sensor Networks</i>
4	Bousahba Nassima	<i>Enhancing Real-Time Pest Detection Accuracy Using Confidence-Weighted Fusion of YOLOv12 and RF-DETR</i>
5	Griche Sonia	<i>Hybrid Geostatistics and Machine Learning in R for Petrophysical Mapping and Uncertainty</i>
6	Douch Leila	<i>Measuring Investor Sentiment in Behavioral Finance: Textual Sentiment Analysis, Modeling Approaches, and Bibliometric Evidence</i>
7	Daoud Fatma Zohra	<i>Reliable Prediction through Stacked Conformal Ensembles</i>
8	Mekranfar Zohra	<i>GIS-Based AHP and BORDA Methods for Land Suitability Analysis for Agriculture</i>
9	Laidi Keyssa	<i>L'utilisation des fonctions de Ripley (L et G) pour l'étude de la distribution spatiale du sapin de Numidie dans la forêt mixte du Babor</i>

▷ **Chairman:** Dr. Benchiha Abbassia

#	Presenter(s)	Paper Title
1	Bensaci Fatima Zohra	<i>Bernoulli Polynomials and Prime-Modular Congruences for Partial Harmonic Sums</i>
2	Hassi Ilheme	<i>Hosoya Polynomial of Line Graph and Subdivision Graph and Total Graph of Banana Tree Graph</i>
3	Khelloul Fatima Zohra	<i>Pure LCD Codes and Hull Dimension over Finite Fields</i>
4	Slimi Farida	<i>On the Hermite Kampé de Fériet Polynomials and Connection to Exponential Distributions</i>
5	Djabri Amina	<i>Ab Initio Study of GdCo5 Structural and Electronic Properties by Simulation-Based Methods</i>
6	Benchikh Lehocine Ghanem	<i>Efficient Allocation Scheme for Estimating a Linear Combination of Normal Means under LINEX-Loss and Linear Cost</i>
7	Benaicha Zohra	<i>An Introduction to Statistical Models for Social and Behavioral Sciences</i>
8	Helaimi Karim	<i>Monte Carlo Methods for Vibration-Based Fault Diagnosis and Reliability Analysis of Gas Turbines</i>
9	Fadhli Fatima Zohra	<i>Extended Reality (XR) as a Support Tool for University Laboratories in Low-Budget Institutions</i>

Poster Session P-1 **POSTER** —

▷ **Coordinator:** Prof. Saliha OUADAH, Prof. Assia CHERIF

#	Presenter(s)	Paper Title
1	Abeidallah Mohammed	<i>The Conditional Estimator of Cumulative Distribution in Functional Spatial Data Case</i>
2	Naas Amel	<i>Nonparametric Estimation of the Conditional Distribution Function on a Riemannian Manifold</i>
3	Ardjoun Fatima Zohra	<i>Recursive Kernel Estimation of the Conditional Mode in Functional Regression under Ergodic Dependence</i>
4	Benziadi Fatima	<i>Asymptotic Results of Recursive Kernel Estimator for Functional Conditional Mode Function</i>
5	Hamidi Nesrine	<i>A Convergence Rate of Regression Operator under Functional Censored Data</i>
6	Kadiri Nadia	<i>Conditional Density Estimation in Single Functional Index Models for Random Left-Truncated Data</i>
7	Kebir Hadjer	<i>Semi-Recursive Kernel Estimate of the Conditional Hazard Function</i>
8	Mekki Sanaä Dounya	<i>Properties of Functional Conditional Quantile Estimator for Data MAR</i>
9	Nacera Helal	<i>Kernel Conditional Quantile Estimator under Left Truncation for Functional Regressors</i>
10	Naceri Amina	<i>Local Linear-kNN Smoothing for Semi-Functional Partial Linear Regression</i>
11	Dib Abdessamad	<i>Asymptotic Normality for Functional Index Models with SDE Dynamics: Applications to Disordered Systems with Incomplete Data</i>
12	Benyahia Wahiba	<i>On Maximum Likelihood Estimation of the Density for Diffusion Process</i>
13	Bensaber Fatna	<i>On Minimum Distance Estimation of the Density for a Diffusion Process</i>

▷ **Coordinator:** Prof. Saliha OUADAH, Prof. Assia CHERIF

#	Presenter(s)	Paper Title
14	Mesri Fatima	<i>Periodic Dynamics of Delayed Stochastic Fractional Integro-Differential Equations with Singular Kernels</i>
15	Bougoussa Souaad	<i>On the Theory of Fractional Two-Dimensional Systems</i>
16	Gafour Asma	<i>Convergence of a Weighted Logarithmic Barrier Algorithm for Stochastic Convex Quadratic Second-Order Cone Optimization</i>
17	Mokhtari Fatiha	<i>Kernel Estimators for Some Characteristics of Continuous-Time Semi-Markov Processes</i>
18	Dja Daouadji Asmaa Rayhana	<i>Impact of Memory Effects and Discretization on the Dynamics of a Conformable Fractional HIV–Cancer Model</i>
19	Yahiaoui Mohamed	<i>Well-Posedness and Stability of a Lamé System with Internal Fractional Damping</i>
20	Cheheb Farida	<i>Global Existence and Energy Decay of Solutions to a Bresse System with Delay Terms</i>
21	Belhia Souaad	<i>SINet-PVT: Edge-Guided Pyramid Vision Transformer for Camouflaged Object Detection</i>
22	Bennafla Djamila	<i>Feature Selection Based on Copula Dependence Measures for Artificial Intelligence Models</i>
23	Boucheta Benabdellah	<i>Collaborative Approaches in Multi-Agent Systems: A State-of-the-Art Survey</i>
24	Filali Mohamed Amine	<i>Interpretable Hybrid Models Combining Generalized Linear Models and Machine Learning Algorithms</i>
25	Douini Hennia	<i>Bayesian Causal Forests: Targeted Regularization and Hierarchical Selection for High-Dimensional Causal Inference</i>
26	Hadjadj Houari	<i>Machine Learning Estimation of Hidden Retrial Rates in Queues with Negative Customers</i>
27	Makri Mohamed El Habib	<i>Preprocessing Impact on Reported Performance in Credit Card Fraud Detection Systems: A Critical Study</i>
28	Rayeh Mohammed Riad	<i>Enhanced Deep Learning Approach for Handwritten Biometric Classification: A Comparative Study with Advanced Preprocessing and Transfer Learning</i>
29	Rouane Rachida	<i>Regression Estimation for Continuous-Time Functional Data under Ergodicity: Robust and Deep Learning Methods</i>
30	Bouanani Rania	<i>SINet-PVT: Edge-Guided Pyramid Vision Transformer for Camouflaged Object Detection</i>

▷ **Coordinator:** Prof. Gherbially Abdelkader, Dr. Moulay Abdelkader

#	Presenter(s)	Paper Title
1	Derrar Saliha	<i>M-Estimation of the Regression Function under Random Left Truncation and Functional Time Series Model</i>
2	Djebbouri Tayeb	<i>Estimation of the Hazard Function Using Bernstein Polynomials</i>
3	Chemikh Souheyla	<i>A Local Linear Approach to Regression Function Estimation in Stationary Ergodic Functional Single Index Models with MAR Responses</i>
4	Boulenoir Zouaouia	<i>Almost Complete Convergence of a Functional Local Linear Estimator for Expectile Regression under Missing-at-Random Data</i>
5	Guenani Somia	<i>Robust Equivariant Nonparametric Regression Estimator by kNN Approach for Functional Ergodic Data</i>
6	Ouahiba Litimein	<i>kNN Local Linear Estimation of the Conditional Quantile with Data Missing at Random</i>
7	Oumima Habchi	<i>The k Nearest Neighbors Estimation of the Conditional Hazard Function with Responses Missing at Random for Functional Data</i>
8	Senouci Kheira	<i>Asymptotic Properties of the Conditional Cumulative Distribution Estimator for Censored and Dependent Data</i>
9	Bouabsa Wahiba	<i>Robust Local Polynomial M-Estimation for Dependent Functional Regression with Unknown Scale: Almost Complete Convergence and Asymptotic Normality</i>
10	Djefel Nour El Houda	<i>Asymptotic Normality of Nonparametric Robust Regression for Continuous Time with Stationary Ergodic Data</i>
11	Baghli Yassine	<i>Local Linear Regression for Functional Ergodic Data with Missing at Random Responses</i>
12	Gourari Ines	<i>A Polynomial Framework for Relative Error Regression Analysis</i>
13	Semmar Sihem	<i>Polynomial Approximation Strategies for Regression with Outliers</i>

▷ **Coordinator:** Prof. Gherbially Abdelkader, Dr. Moulay Abdelkader

#	Presenter(s)	Paper Title
14	Benabdallah Benarmas Hadjer Badra	<i>Bayesian Estimation and the James Stein Estimator</i>
15	Benhalouia Tarik	<i>Analyzing Insurance Data with an Alpha Power Transformed Exponential Poisson Model</i>
16	Bouzidi Soujoud	<i>The Ideal Allocation Plan for Estimating a Parallel-Series System Reliability</i>
17	Cheraitia Hassen	<i>An Objective Tolerance-Based Criterion for GPD Threshold Selection: A Simulation Study</i>
18	Hammad Malika	<i>Comparative Study: Carr-Madan & COS Method for Calculating the Price of a European Option</i>
19	Lousdad Aymen Aziz	<i>Statistical Reliability and Risk Assessment of Friction Stir Welding FSW Processes in Air and Underwater Environments</i>
20	Sid Ahmed Mohamed Amine	<i>Poster on Stein's Paradox in Statistics in Efron & Morris (1977)</i>
21	Bentadj Cheimaa	<i>False Negative Minimization for pCR Prediction in Breast Cancer Using Differential Evolution and Neural Networks</i>
22	Bouhamidi Abdelwahab	<i>Hybrid XGBoost–Bayesian Optimization Framework for Well Placement and Well Control Parameter Optimization</i>
23	Kendi Salima	<i>Machine Learning Approaches for Chronic Kidney Disease Analysis</i>
24	Rached Sabrina	<i>Assessing Algorithmic Fairness in Educational AI Systems for Learning Analytics Dashboards through Predictive Stability Analysis</i>
25	Sait Razika	<i>Modeling the Behavior of Developing-Country Exporters under Sanitary and Phytosanitary Standards: A Sequential Game Approach</i>
26	Benlamnouar Mohamed Farid	<i>Optimization of TIG Welding Parameters for Minimizing Hardness Mismatch and Enhancing Impact Toughness in Dissimilar 304L Stainless Steel–S235 Carbon Steel Joints</i>
27	El Mestari Wahiba	<i>Energy Optimization Performance Enhancement using Statistical Methods and Evolutionary Algorithm</i>
28	Hamri Yazid Zakaria	<i>Artificial Neural Networks for Tracking the Maximum Power Point of a Variable Speed Wind Turbine</i>
29	Ahmed Tenia	<i>Optimisation of Signal Electromagnetic on Dotarem Contrast Agent</i>



★ Event Locations at a Glance

Day	Event	Location	Notes
Day 1 Apr. 8	Opening Ceremony + Plenary Sessions (Morning)	Central Library “Abbouni Bouziane”	University Campus, Sidi Bel Abbès — Morning programme only
	Lunch + Afternoon Parallel Sessions (Slot A) + Poster Session 1	Eden Hotel SBA	Free university bus from Campus → Eden Hotel (see below)
Day 2 Apr. 9	Full day: Plenary, Parallel Sessions (Slot B), Poster Session 2, Closing	Eden Hotel SBA	Entire second day at Eden Hotel

Venue 1 — Morning of April 8

Central Library
“Abbouni Bouziane”

University Campus, Sidi Bel Abbès

Hosts:

- Opening Ceremony
- Plenary Sessions — Day 1 Morning



▷ Scan for Map & Directions

University Campus — Sidi Bel Abbès, 22000

Venue 2 — Apr. 8 Afternoon & Full Apr. 9

Eden Hotel
Sidi Bel Abbès

City Centre, Sidi Bel Abbès

Hosts:

- Lunch (Day 1 & Day 2)
- Parallel Sessions — Slot A & Slot B
- Poster Sessions 1 & 2
- Full Day 2 Programme



▷ Scan for Map & Directions

Eden Hotel — Sidi Bel Abbès, Algeria

For any logistical queries: contact the registration desk in the conference lobby, or e-mail icsa2026@univ-sba.dz · website: www.univ-sba.dz/icsa2026/ · Djillali Liabès University, Sidi Bel Abbès, Algeria