


# Conference Schedule

*ENSET Skikda, Algeria • May 18–19, 2026 • All times GMT+1*

One plenary room • Tracks: Mathematics / Computer Sciences • Oral presentations: 15 min (10 min talk + 5 min Q&A) • Posters during coffee break

## Day 1 — Monday, May 18, 2026

*08:30 – 16:45 | Plenary Room, ENSET Skikda | Tracks: Mathematics / Computer Sciences*

**Google Meet Login Information**

**Video Call Link:** https://meet.google.com/nhv-qsqh-efs

**CODE : 704 952 760#**

**Telephone N° : (US) +1 252-820-1285**

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| **Opening & Keynote Presentations** | |
| **08:30 – 09:00** | **Registration & Welcome Coffee** |
| **09:00 – 09:30** | **Opening Ceremony — Chairs & ENSET Skikda Directorate** |
| **09:30 – 10:00** | **Keynote 1 — Pr. Halim Zeghdoudi**, *University of Badji-Mokhtar, Annaba*<br>Hom-Probability: Foundations, Constructions, and Examples |
| **10:00 – 10:30** | **Keynote 2 — Dr. Samir Sellami**, *ENSET Skikda*<br>Neuro-Symbolic AI: Neural Intuition Meets Symbolic Truth |
| **10:30 – 11:00** | **Coffee Break & Poster Session** |
| **Session 1 — Oral Presentations – Chairs : Esma Kenef and Halima Salah** | |
| **11:00 – 11:15** | **Paper #1:** Towards Reliable Statistical Inference in Health Research via Dynamic Modeling — *Fatma Zohra Daoud* • Online **[Mathematics]** |
| **11:15 – 11:30** | **Paper #14:** Phonetic via Li-Fi: Boosting Data Transmission — *Saber Zerdoumi, Abdelouahab Nouar* • Online **[Computer Sciences]** |
| **11:30– 11:45** | **Paper #2:** Finite-Time Stability of Hadamard Fractional Stochastic Delay Systems — *Ghoul Wissam* • Online **[Mathematics]** |

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| **11:45 – 12:00** | **Paper #17:** From Semantic Web to Neuro-Symbolic AI in Public Administration: A Taxonomic Review and Future Directions — *Amina Haioun, Samir Sellami, Rida Mezghache* • Online [Computer Sciences] |
| **12:00 – 12:15** | **Paper #4:** Quantitative Threshold and Spatial Scenario Analysis of a Reaction–Diffusion HIV/AIDS Model — *Abdelmadjid Atil, Khalifa Bouaziz* • Online [Mathematics] |
| **12:15 – 12:30** | **Paper #21:** Machine Learning for Pest Forecasting: An Overview of Trends, Challenges, and Future Directions — *Sabiha Merzouk, Zahira Chouiref, Aicha Aid* • Online [Computer Sciences] |
| **12:30 – 13:30** | **Lunch Break** |
| **Session 2 — Oral Presentations – Chairs : Safia Bekhouche and Imene Meziri** | |
| **13:30 – 13:45** | **Paper #6:** Finite Sample Performance of Classical Estimators in Panel Data Models: A Comparative Study — *Mohammed Bassoudi, Abdelkader Chahad* • Online [Mathematics] |
| **13:45 – 14:00** | **Paper #22:** A Three-Dimensional Taxonomy of AI Approaches for Personalized Patient Orientation: A Systematic Mapping Study — *Nedjah Nazih, Samir Sellami, Mohammed Brahimi* • Online [Computer Sciences] |
| **14:00 – 14:15** | **Paper #7:** Composite GARCH–APARCH Models Stationarity with Common Gaussian Noise — *Hadil Arar* • Online [Mathematics] |
| **14:15 – 14:30** | **Paper #11:** Exponential Stability of a Delayed Gurtin–Pipkin Thermoelastic Swelling Porous System — *Widad Karek* • Online [Mathematics] |
| **14:30 – 14:45** | **Paper #16:** AES-192 Security Enhancement for LoRaWAN: NS-3 Performance Analysis — *Abdelouahab Nouar, Saber Zerdoumi* • Online [Computer Sciences] |
| **14:45 – 15:00** | **Paper #35:** Diabetic Retinopathy Detection Using Transfer Learning and Image Preprocessing on Retinal Fundus Images — *Imane Mahfouf, Abdelkader Horch, Boualem Merabet* • Online [Computer Sciences] |
| **15:00 – 15 :15** | **Coffee Break** |
| **Session 3 — Oral Presentations – Chairs : Nedjmeddine Derdar and Bouzid Mansouri** | |
| **15:15 – 15:30** | **Paper #13:** Effect of ANFIS Parameters on Availability Estimation Using Gamma and Inverse Gaussian Kernels — *Yasmina Zitout, Karima Lagha* • Online [Mathematics] |
| **15:30 – 15:45** | **Paper #36:** Black-Box Aware Conformal Prediction for Large Language Models with Distribution-Free Coverage Guarantees — *Ibrahim Sadok* • Online [Computer Sciences] |
| **15:45 – 16:00** | **Paper #18:** Local Analysis of Rate Functions — *Sara Manseur, Louiza Berdjoudj, Yacine Boumzaid* • Online [Mathematics] |
| **16:00 – 16:15** | **Paper #37:** Heart Sounds Classification Using Neural Networks and Spectrums — *Imane Debbal* • Online [Computer Sciences] |
| **16:15 – 16:30** | **Paper #19:** Fuzzy Reliability for a New Model with Simulations — *Grine Razika* • Online [Mathematics] |
| **16:30 – 16:45** | **Paper #24:** A Lifecycle Framework for Monthly Stable Periodic-Frequent Crime Hotspots — *Hamimid Ilyes, Nouioua Farid, Boutouhami Sara, Maaref Zineb, Lefkir Mira* • Online [Mathematics] |

National conference on Statistics and Data Sciences
NCS DS-2026
ENSET SKIKDA

# Day 2 — Tuesday, May 19, 2026

*09:00 – 17:00 | Plenary Room, ENSET Skikda | Tracks: Mathematics / Computer Sciences*




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| **Welcome** | |
| **09:00 – 09:30** | **Welcome & Coffee** |
| **Session 4 — Oral Presentations – Chairs : Leila Abdoune and Salah Boulares** | |
| **09:30 – 09:45** | **Paper #30:** A Brief Overview of Recent Advances on Fleet Models — *Ahlem Adoui* • In-person **[Mathematics]** |
| **09:45 – 10:00** | **Paper #46:** Retrieval-Augmented Generation for Telecom Recommendations: A Survey and Future Directions — *Boudaoud Faycal, Riad Bouaita, Samir Sellami* • In-person **[Computer Sciences]** |
| **10:00 – 10:15** | **Paper #57:** On the Reliability Assessment of Weighted Multi-State k-out-of-n Systems: Formalizing the F/G Duality via Universal Generating Functions — *Safia Leulmi* • In-person **[Mathematics]** |
| **10:15 – 10:30** | **Paper #64:** Statistics for AI and Machine Learning: Performance Evaluation of SVM Kernels for Multi-Class Audio Classification with MFCC Features — *Leila Abdoune* • In-person **[Computer Sciences]** |
| **10:30 – 10:45** | **Paper #33:** An EM Algorithm for Spatial Regression with Double Censoring via Curvelet Expansion — *Ryma Douas* • In-person **[Mathematics]** |
| **10:45 – 11 :15** | **Keynote 3 — Dr. Mohamed Brahimi**, *National Higher School of Artificial Intelligence (ENSIA), Algiers*<br>Artificial Intelligence for Life Sciences |
| **11:15 – 11:30** | **Coffee Break** |
| **Session 5 — Oral Presentations – Chairs : Rida Mezghache and Djalal Boucenna** | |
| **11:30 – 11:45** | **Paper #38:** On the Decay of a Porous Thermoelastic System of Type III with Nonlinear Damping Term — *Zineb Nid* • Online **[Mathematics]** |
| **11:45 – 12:00** | **Paper #49:** Explainable Artificial Intelligence for Early Lung Cancer Detection Using Medical Imaging: A Systematic Literature Review — *Yacine Bounaas, Souheila Boudouda, Imene Bouleghlimat* • Online **[Computer Sciences]** |
| **12:00 – 12:15** | **Paper #43:** Risk-Sensitive Mean-Field Control with Impulsive Effects — *Imane Mancer* • Online **[Mathematics]** |
| **12:15 – 12:30** | **Paper #62:** Cyber Threat Detection Using Autoencoder-Based Representation Learning and DBSCAN on NSL-KDD — *Moudjib Benzitouni* • Online **[Computer Sciences]** |
| **12:30 – 12:45** | **Paper #52:** Uncertainty Propagation of an M/G/1 Retrial Queue with Two-Way Communication and an Unreliable Server — *Khedidja Boughafene* • Online **[Mathematics]** |
| **12:45 – 13:00** | **Paper #25:** Anticipated Mean-Field Backward Stochastic Volterra Integral Equation — *Fateh Henouz, Fatima Zohra Seghier, Azouz Ferrag* • Online **[Mathematics]** |




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| **13:00 – 13:15** | **Paper #40:** Integrating Statistical Region Analysis and Siamese Networks for Medical Image Authentication — *Khaled Chait, Brahim Ferik, Abdelkader Laouid* • Online [Computer Sciences] |
| **13:15 – 13:30** | **Paper #59:** Theoretical Analysis and Performance of the Wolverton–Wagner Recursive Density Estimator — *Benaissa Fadila* • Online [Mathematics] |
| **13:30 – 14:30** | **Lunch Break** |
| **Session 6 — Oral Presentations – Chairs : Mohamed Seifeddine Meziani and Salah Benhiouna** | |
| **14:30 – 14:45** | **Paper #29:** Simulation and Application in Reliability Analysis to a Novel Logistic Exponential Distribution — *Imen Grabsia* • Online [Mathematics] |
| **14:45 – 15:00** | **Paper #60:** Second-Order Three-Phase Sampling Plan for Estimating a Product of Several Bernoulli Proportions — *Soujoud Bouzidi* • Online [Mathematics] |
| **15:00 – 15:15** | **Paper #41:** Are Arabic LLMs Robust to Diacritics? An Empirical Study on Tashkeel for Question Answering — *Narimene Ayat* • Online [Computer Sciences] |
| **15:15 – 15:30** | **Paper #47:** When the Machine Hesitates: Conformal Prediction for Clinical Triage — *Nour El Houda Bourai, Akila Djebbar, Hayet Farida Merouani* • Online [Computer Sciences] |
| **15:30 – 15:45** | **Paper #61:** An Overview of Applications of Delay Stochastic Fractional Differential Equations — *Ahlem Adoui* • Online [Mathematics] |
| **15:45 – 16:00** | **Paper #23:** Integrating Semantic Web Technologies with LLMs: A Survey of Approaches, Challenges, and Future Directions — *Abdelfatah Bounab, Samir Sellami, Toufik Laroum* • Online [Computer Sciences] |
| **16 :00 – 16:15** | **Paper #12:** Set Membership Selective Partial Update Decorrelation Adaptive Filtering Algorithm — *Mohamed Zerouali* • Online [Mathematics] |
| **16 :15 – 16:30** | **Paper #34:** Analysis of a Single-Server Batch Arrival Queue with Bernoulli Feedback, K-Variant Vacation Policy, and Impatient Customers — *Ines Ziad* • Online [Mathematics] |
| **16 :30 – 17:00** | **Closing Ceremony & Best Paper / Best Poster Awards** |

## Poster Session | Displayed throughout both days • Authors present during coffee breaks

*Posters will be on permanent display in the Foyer adjacent to the Plenary Room. Authors are kindly asked to stand by their posters during the coffee break on May 18 (10:30 -11:00 ).*




| Board | Track | Chair : Fatima Guessoum | | Mode |
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| **P1** | #8 | *Mathematics* | On the Approximate Controllability of Second-Order Stochastic Systems with Non-Lipschitz Coefficients — *Aymen Leslous, Abbes Benchaabane* | In-person |
| **P2** | #27 | *Mathematics* | Estimation and Inference in Vector Autoregressive (VAR) Models — *Farida Merabet* | In-person |
| **P3** | #32 | *Mathematics* | Modeling and Analysis of Periodic Solutions in Iterative Neutral Differential Equations with Impulses — *Elbahi Amel* | In-person |
| **P4** | #20 | *Computer Sciences* | An Advanced Continuous-Discrete Salp Swarm Metaheuristic for the One-Dimensional Cutting Stock Problem — *Fatima Guessoum* | In-person |



*Online speakers will join via the link communicated by the organizing committee.*