




# AITEC'2026 – Conference Program

The International Conference on AI, IoT, Embedded Technologies,  
Sustainable Energy & Special Main Track in Mathematics

 Rosa Beach Hotel, Monastir – Tunisia

 17 March 26–28, 2026

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## Day 1 – Thursday, March 26, 2026

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08h30 – 09h00 → Registration

09h00 – 09h30 → Opening Ceremony


09h30 – 10h15 → Keynote 1: Pr. Iana Atanassova, France

10h15 – 10h30 → Coffee Break

10h30 – 12h30 → Technical Sessions 1

**Chairs :: Pr. Mounir Zrigui and Prof. Fathi Soltani**

1. **Jihed Jabnoun** : *Speech Emotion Recognition: Generalization vs Specialization*
2. **Mohamed Saber Ben Hamouda** : *Diffusion Equation in Dunkl Transform*
3. **Latifa Kellou**: *Toward Intelligent E-Learning Recommender Systems*
4. **Tasnim Hamdeni**: *Data-Driven Prediction of Swift Hardening Model Parameters from Tensile Curve Shape Indices*
5. **Hassen Mahdhaoui**: *Hybrid Framework for Tunisian Dialect Named Entity Recognition Using AraBERT*
6. **Mounir Bedhiafi**: *Rough Path Integrals for Time-Changed Paths*

12h30 – 14h00 → Lunch Break 

14h00 – 17h00 → AI for Scientific Research Workshop (Lab 1)

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## Day 2 – Friday, March 27, 2026

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08h30 – 10h30 → Technical Sessions 2

**Chairs :: Pr. Iana Atanassova, Pr. Najoua Gamara and Pr. Nabila Torki-Hamza.**

1. **Keynote 2: Prof. Najoua Gamara**
2. **Samar Chammakhi**: *Predicting Student Engagement Using Multimodal Learning Analytics*
3. **Salhi Rahma** : *Hybrid Generative Models for Tabular Data: Comparative Insights and Practical Evaluation*
4. **Sarra Zrigui**: *Sentiment-Driven Recommendation Using Arabic Book Reviews*
5. **Hamed Ben Yahya**: *Exponential Stability Analysis and Robust Control of Discrete-Time Nonlinear Delay Systems*
6. **Fayrouz Dalhoumi** : *Multimedia Adaptation System in E-learning via Deep Learning and Passive Monitoring : A Survey*

10h30 – 10h45 → Coffee Break

Chairs :: Pr. Henri Nicolas, Pr Mounir Zrigui and Pr. Soufiane Gasmi.

1. **Keynote 3: Prof. Nabila Torki-Hamza**
2. **Yosra Naceur** :*Remote Sensing Change Detection with Guided Attention*
3. **Sana Benzarti**: *Blockchain Authentication for IoT Drones*
4. **Radhouane Laajimi**: *A Machine Learning Approach for Accurate Breast Cancer Prediction and Diagnosis*
5. **Chaibi Chayma**: *Survey on Interpretable Pedagogical Recommendation Systems for Early Multi-Class Academic Performance Prediction in Virtual Learning Environments*
6. **Sayed Sayari** *Study of a Fractional "SVEIR" Epidemic Model under general Nonlinear Saturated Transmission*
7. **Zied Garbouj**: *Semi-Generalized Partial Isometries*

12h30 – 14h00 → Lunch Break ☺

14h00 – 17h00 → AI for Scientific Research Workshop (Lab 2)

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## Day 3 – Saturday, March 28, 2026

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08h30 – 10h30 → AI for Scientific Research Workshop (Lab 3)

08h30 – 10h30 Technical Sessions 4 & 5:

<p><b>Salle A – AI &amp; IoT (Session 4)</b> Chair : Pr. Mounir Zrigui</p> <ol style="list-style-type: none"><li>1. <b>Hajri Aya</b>: Hybrid AI Framework for Automated Diffusion and Perfusion MRI Analysis: NeurOnco AI</li><li>2. <b>Wadie Kadri</b>: TF-DSIM: A Robust Hybrid Framework for Quantifying Topic-Based Influence in Evolving Reddit Communities</li><li>3. <b>Md Sifatuzzaman Mia</b>: Predicting Heart Disease Using SMOTE-Based Data Balancing and Ensemble Learning</li><li>4. <b>Meddeb Omayma</b>: Explainable Adaptive E-Learning Approach for Personalized Learning Contents Recommendation in an Intelligent E-learning Environment</li></ol>	<p><b>Salle B – Mathematics (Session 5)</b> Chair :: Pr. Anis Rezgui</p> <ol style="list-style-type: none"><li>1. <b>Pr. Anis Rezgui</b> <i>Infinite dimensional regression</i></li><li>2. <b>Anis Mabrouk</b> <i>Vector Artificial Intelligence</i></li><li>3. <b>Saifeddine Ghnimi</b> <i>(Invited Talk)</i></li><li>4. <b>Samir Ben Mahmoud</b>: <i>Webster Scalar Curvature on CR Manifolds</i></li><li>5. <b>Rafik Mnassri</b>: <i>Structural, Magnetic and Magnetocaloric Investigation of Ag-Doped La<sub>0.5</sub>Sr<sub>0.5</sub>CoO<sub>3</sub> Cobaltites for Energy-Efficient Solid-State Cooling Materials</i></li><li>6. <b>Mohamed Amine OMRANI</b> : <i>Reverse Lexicographic Symmetry Breaking for Connected Bounded-Degree Graph Generation</i></li><li>7. <b>Salah Baldi</b> <i>(Invited Talk)</i></li><li>8. <b>Omrane Guizani</b> : <i>Bessel function of higher order (Online)</i></li><li>9. <b>Moujib Jarray</b>: <i>Time-to-Failure Distribution of <math>k</math>-out-of-<math>n</math> Systems Under Harmful Poisson Shocks (Online)</i></li></ol>
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10h30 – 10h45 → Coffee Break

10h45– 12h00 → AI for Scientific Research Workshop (Lab 4)

10h45– 12h00 → Technical Sessions 6 & 7:

**Salle A – AI & Automation - Track (Session 6)**

**Chair : : Pr. Mounir Zrigui**

**1. Tamim Mahmud :**

- Towards Robust Bangla Handwritten Character Recognition: A Deep Ensemble of CNN Architectures
- A Robust CNN Ensemble for Automated MultiClass Waste Classification Using a Leakage-Free Training Pipeline
- A Hybrid Ensemble Transfer Learning Framework for Robust Bangla Sign Language Alphabet Recognition

**2. Esma Bendiab:** Detecting Offensive Language in Social Media: A comparative study between machine learning techniques and a transformer-based model

**3. Zakia Rhanim:** De l'assistance technique à l'étayage cognitif : l'intégration de l'IA dans les cursus techniques et scientifiques,UMPO,Maroc

**4. Krishna Vamshidhar Reddy:** *AgriSenseNet: A Deep Learning Framework for Intelligent Water Management in IoT-Driven Farms*

**5. DJEBRANI Salima:** Partial and Total Eigenstructure Assignment Using Static Output Feedback

**Salle B – AI , Energy & Mathematics Track (Session 7)**

**Chairs:: Pr. Anis Rezgui and Pr. Iana Atanassova**

**1. Anis Kroumi** *Tikhonov Regularisation for the Weierstrass Transform*

**2. Mohamed Gaidi** *Moment Analysis for the Heat Semigroup in the Dunkl Setting*

**3. Osman Adiguzel:** Shape Memory Phenomena and Energy Dissipation in Thermomechanical Processes in Shape Memory Alloys

**4. Md. Sayeef Al Nayeem:** A case study conducted at DIU in Bangladesh examines the cost-benefit analysis and viability of installing a net metering system alongside rooftop solar photovoltaics

**5. Marwa Selmi:** Déterminants et Potentiel à l'Exportation des Produits Agricoles Tunisiens vers la Zone Arabe : Une Analyse Empirique par l'Estimateur PPML (2004-2023)

**6. Nada BADDADI:** CFD-Based Investigation of a Helical Tube-in-Tube Heat Exchanger

**7. Nessrin manaa:** Numerical Investigation of Thermo-Solutal Natural Convection in a Three-Dimensional Cavity filled with a surfactant Stabilized Nnaofluid

**8. Mohamed Toumi** (*Invited Talk*)

**12h00 → Closing Ceremony** 

- Best Paper Awards
- AITEC'27 Announcement
- Certificates Distribution