

The logo consists of the letters 'RDI' in a bold, black, sans-serif font. Each letter has a small red triangle pointing upwards from its top edge. A thin red horizontal line is positioned below the letters.

Research, Development & Innovation

# Annual Report

2024-2025 Academic year



“At ESPRIT, we reaffirm our enduring commitment to impactful research that addresses pressing societal challenges and contributes meaningfully to the United Nations Sustainable Development Goals (SDGs). Beyond the pursuit of scientific excellence, our research agenda is intentionally oriented toward generating tangible value for society, industry, and policy. In this spirit, we actively embrace emerging technologies as powerful levers for innovation, resilience, and inclusive development.

By positioning AI-driven, human-centered, and ethically grounded research at the core of our vision, we signal our determination to pioneer transformative solutions to complex real-world problems, particularly within developing and emerging contexts. This strategy reflects our belief that artificial intelligence, when responsibly designed and deployed, can serve as a catalyst for sustainable progress and social good.

In alignment with this vision, ESPRIT was honored to host the 8th EAI International Conference on Emerging Technologies for Developing Countries (AfrikaTek 2025), held from June 11 to 13, 2025. Organized under the theme *“Emerging Technologies: Pathways to Resilience and Growth in Africa,”* this landmark edition convened leading researchers, innovators, and practitioners to explore how cutting-edge technologies can empower African societies, strengthen economic resilience, and foster sustainable growth. Hosting AfrikaTek 2025 stands as a significant milestone in ESPRIT’s journey, reinforcing our role as a hub for impactful research, global collaboration, and innovation-driven development with a strong and enduring focus on Africa.”

*Professor Tahar Ben Lakhdar, ESPRIT CEO and Co-founder*

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## ESPRIT-Tech

### The Research, Development, and Innovation Office

## Welcome

“Research, Development, and Innovation (RDI) have been at the core of ESPRIT’s institutional vision since its founding. Guided by the belief that impactful research is a key driver of sustainable development, ESPRIT has consistently fostered a research culture that combines scientific rigor, innovation, and societal relevance.

At ESPRIT, we pursue a balanced RDI model that values applied research and innovation with tangible socio-economic impact, while firmly anchoring these efforts in strong fundamental research. Our research ecosystem actively engages faculty, students, industry, and public stakeholders, fostering interdisciplinary collaboration and knowledge transfer aligned with national priorities and the United Nations Sustainable Development Goals (SDGs).

The past year marked a major milestone in ESPRIT’s research journey. Our faculty produced a total of 100 peer-reviewed publications, including 47 addressing UN Sustainable Development Goals, 35 employing AI-based methodologies, and 49 resulting from inter-institutional collaborations. Notably, 18 publications focused on pedagogical innovation, reflecting our faculty’s commitment to redefining teaching, learning, and assessment while advancing academic excellence.

This catalog offers a snapshot of the diverse RDI activities, initiatives, and achievements that define ESPRIT’s innovative spirit. It also reflects our forward-looking ambition to strengthen strategic partnerships with industry, public institutions, and international collaborators. Through these alliances, ESPRIT aims to amplify research impact, contribute meaningfully to Tunisia’s socio-economic development, and position itself as a regional hub for research-driven innovation. Welcome to a catalog that celebrates research with purpose, innovation with impact, and collaboration as a cornerstone of progress.”

**Prof. Faouzi Kamoun**  
**Director ESPRIT-Tech**  
**Tel: (216) 99 423 944**  
**Email: [faouzi.kammoun@esprit.tn](mailto:faouzi.kammoun@esprit.tn)**



## Research Teams

| #  | Name                 | Domain  | Coordinator                     | Contact Email address  |
|--|----------------------|---|---------------------------------|--|
| <b>Information &amp; Communications Technologies (ICT)</b> |                      |   |                                 |  |
| 1  | ESPRIT-Cloud         | Cloud Computing & Security                      | Manel Madhioub & Soumaya Mbarek | <a href="mailto:Manel.madhioub@esprit.tn">Manel.madhioub@esprit.tn</a><br><a href="mailto:soumaya.mbarek@esprit.tn">soumaya.mbarek@esprit.tn</a> |
| 2  | Wireless Com         | Wireless communications                         | Safa Zhioua Cherif              | <a href="mailto:safa.zhiouacherif@esprit.tn">safa.zhiouacherif@esprit.tn</a>   |
| 3  | M2M                  | Ambient & embedded systems                      | Feten Teber                     | <a href="mailto:Feten.teber@esprit.tn">Feten.teber@esprit.tn</a>   |
| 4  | WSN-RFID             | Wireless sensor networks and RFID               | Abderrazak Hachani              | <a href="mailto:Abderrazak.hachani@esprit.tn">Abderrazak.hachani@esprit.tn</a>   |
| 5  | ESPRIT-Mobile        | Mobile applications                             | Imed Amri                       | <a href="mailto:Imed.amri@esprit.tn">Imed.amri@esprit.tn</a>   |
| 6  | DASC                 | Data Science & AI                               | Sami Sifi                       | <a href="mailto:Sami.sifi@esprit.tn">Sami.sifi@esprit.tn</a>   |
| 7  | Imagein              | Computer vision / image processing              | Naouel Boughattas               | <a href="mailto:naouel.boughattas@esprit.tn">naouel.boughattas@esprit.tn</a>   |
| 8  | I2S                  | Intelligent Information Systems                 | Syrine Karoui                   | <a href="mailto:Syrine.karoui@esprit.tn">Syrine.karoui@esprit.tn</a>   |
| 9  | SSD                  | Sustainable social development                  | Soumaya Argoubi                 | <a href="mailto:Soumaya.argoubi@esprit.tn">Soumaya.argoubi@esprit.tn</a>   |
| 10   | Esprit SmartNet      | Smart Networks (SDN, NFV, AI)                   | Amel Ksentini                   | <a href="mailto:amel.ksentini@esprit.tn">amel.ksentini@esprit.tn</a>   |
| 11   | CybeSec Intelligence | Cybersecurity Intelligence                      | Sarra Berrahal                  | <a href="mailto:sarra.berrahal@esprit.tn">sarra.berrahal@esprit.tn</a>   |
| <b>Electromechanical &amp; Industrial Engineering</b>      |                      |   |                                 |  |
| 12   | ICAR                 | Robotics  | Maher Mkhinni                   | <a href="mailto:Maher.mkhinni@esprit.tn">Maher.mkhinni@esprit.tn</a>   |
| 13   | INOBI                | Industrial engineering for a better life        | Salah Bousbia                   | <a href="mailto:Salah.bousbia@esprit.tn">Salah.bousbia@esprit.tn</a>   |
| 14   | ETM                  | ESPRIT's Tomorrows Materials                    | Ameni Ellouze                   | <a href="mailto:Ameni.ellouze@esprit.tn">Ameni.ellouze@esprit.tn</a>   |
| 15   | ISF                  | Integrated Smart Factory                        | Yosr Ghozzi                     | <a href="mailto:Yosr.ghozzi@esprit.tn">Yosr.ghozzi@esprit.tn</a>   |
| <b>Civil Engineering</b>                                   |                      |   |                                 |  |
| 16   | REEE                 | Renewable energy & energy efficiency            | Imen Guebebia                   | <a href="mailto:Imen.guebebia@esprit.tn">Imen.guebebia@esprit.tn</a>   |
| 17   | SBM                  | Smart Building management                       | Asma Karaoui                    | <a href="mailto:Asma.karoui@esprit.tn">Asma.karoui@esprit.tn</a>   |
| <b>Applied Mathematics</b>                                 |                      |   |                                 |  |
| 18   | GRAFICS              | Risk management                                 | Mohamed Anis Ben Lasmar         | <a href="mailto:Mohamedanis.benlasmar@esprit.tn">Mohamedanis.benlasmar@esprit.tn</a>   |
| 19   | MMSN                 | Mathematical modeling and numerical simulations | Mohamed Hedi Riahi              | <a href="mailto:Mohamedhedi.riahi@esprit.tn">Mohamedhedi.riahi@esprit.tn</a>   |
| <b>Management &amp; Pedagogical Innovation</b>             |                      |   |                                 |  |
| 20   | MAIN' Team           | Management & Innovation                         | Inés Mhaya                      | <a href="mailto:Ines.mhaya@esprit.tn">Ines.mhaya@esprit.tn</a>   |
| 21   | ALEER                | Engineering Education Research                  | Lamjed Bettaieb                 | <a href="mailto:Lamjed.bettaieb@esprit.tn">Lamjed.bettaieb@esprit.tn</a>   |
| 22   | FLE                  | Foreign Language Education (FLE)                | Thameur Cherni                  | <a href="mailto:thameur.cherni@esprit.tn">thameur.cherni@esprit.tn</a>   |
| 23   | DevProfE             | Faculty Professional Development                | Hajer Berhouma                  | <a href="mailto:hajer.berhouma@Esprit.tn">hajer.berhouma@Esprit.tn</a>   |

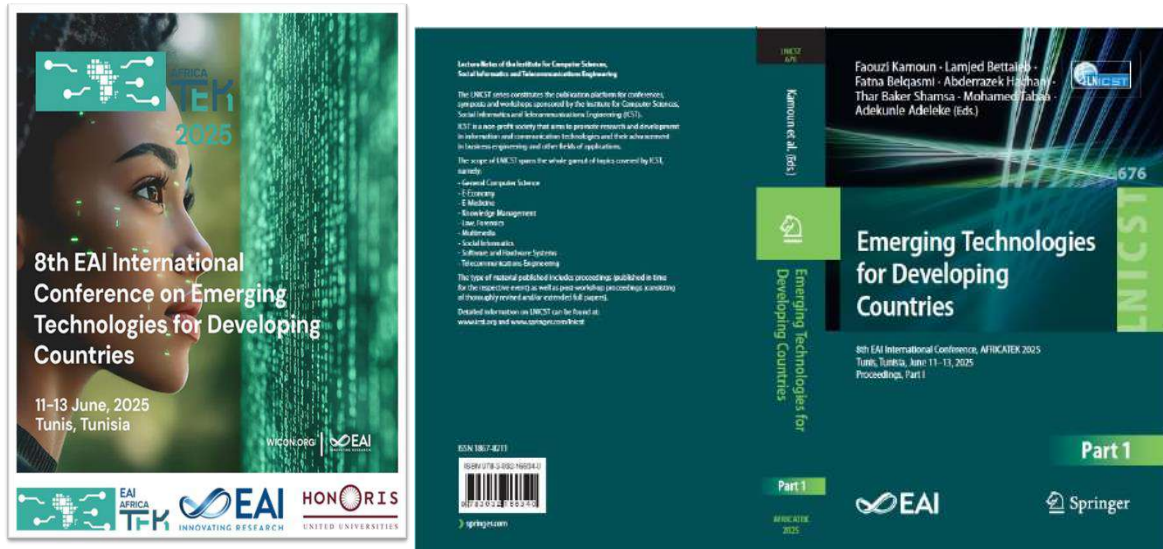
## Research Themes

| #  | Research Team   | Research Themes  |
|----|-----------------|--|
| 1  | ESPRIT-Cloud    | <ul style="list-style-type: none"> <li>⇒ Infrastructure as a service</li> <li>⇒ Virtualization technologies</li> <li>⇒ Cloud security</li> <li>⇒ Cloud federations</li> <li>⇒ Platform as a service</li> <li>⇒ Learning-based Cloud</li> </ul>                           |
| 2  | Wireless Com    | <ul style="list-style-type: none"> <li>⇒ Future Wireless Networks</li> <li>⇒ UAV-based Aerial Networks</li> <li>⇒ Smart agriculture (UAVs &amp; AI)</li> <li>⇒ Wireless communication for Public Safety</li> <li>⇒ E-health</li> </ul>                                   |
| 3  | M2M             | <ul style="list-style-type: none"> <li>⇒ Healthcare</li> <li>⇒ Smart homes</li> <li>⇒ Smart agriculture</li> </ul>   |
| 4  | WSN-RFID        | <ul style="list-style-type: none"> <li>⇒ Design of interconnected objects</li> <li>⇒ Digital Transformation</li> <li>⇒ Localization and tracking</li> <li>⇒ Logistic management</li> <li>⇒ IoT applications</li> </ul>   |
| 5  | ESPRIT-Mobile   | <ul style="list-style-type: none"> <li>⇒ IoT</li> <li>⇒ Blockchain</li> <li>⇒ M-Health</li> <li>⇒ Augmented Reality / AR</li> <li>⇒ Virtual Reality / VR &amp; Mixed Reality / MR</li> </ul>   |
| 6  | DASC            | <ul style="list-style-type: none"> <li>⇒ Machine Learning &amp; AI applications</li> <li>⇒ Social media data analytics</li> <li>⇒ Education 4.0</li> <li>⇒ Risk Cartography</li> </ul>   |
| 7  | ImageIn         | <ul style="list-style-type: none"> <li>⇒ Machine learning for computer vision</li> <li>⇒ Medical imaging</li> <li>⇒ Shape recognition</li> <li>⇒ Image processing</li> </ul>   |
| 8  | I2S             | <ul style="list-style-type: none"> <li>⇒ Intelligent Information Systems (IIS) architectures</li> <li>⇒ IIS security</li> <li>⇒ Decision-support systems</li> <li>⇒ Big data &amp; AI for IIS</li> <li>⇒ DevOps for IIS</li> </ul>                                       |
| 9  | SSD             | <ul style="list-style-type: none"> <li>⇒ Behavioral Analysis</li> <li>⇒ Privacy</li> <li>⇒ Serious Games</li> <li>⇒ E-justice: Social development to achieve peace, human rights, and effective governance</li> <li>⇒ Sustainability in Engineering Education</li> </ul> |
| 10 | Esprit SmartNet | <ul style="list-style-type: none"> <li>⇒ Software-Defined Networking (SDN)</li> <li>⇒ Network Functions Virtualization (NFV)</li> <li>⇒ AI &amp; Network slicing</li> <li>⇒ Optimization of next-generation networks</li> </ul>  |

| #  | Research Team        | Research Themes  |
|----|----------------------|--|
| 11 | CybeSec Intelligence | <ul style="list-style-type: none"> <li>⇒ Securing Applications and Network Infrastructures</li> <li>⇒ Artificial Intelligence for Cybersecurity</li> </ul>   |
| 12 | EVIS                 | <ul style="list-style-type: none"> <li>⇒ Vehicle's mechanical structures</li> <li>⇒ Vehicle's aerodynamics</li> <li>⇒ Electric power converters</li> <li>⇒ Battery charging and management systems</li> </ul>  |
| 13 | INOBI                | <ul style="list-style-type: none"> <li>⇒ Innovative pedagogical approaches for industrial engineering education</li> <li>⇒ Industrial engineering solutions for social innovation and better life</li> </ul>   |
| 14 | ETM                  | <ul style="list-style-type: none"> <li>⇒ Valorization of waste in plastic/composite materials</li> <li>⇒ Valorization of natural fibers resulting from their use as reinforcement in composite materials</li> <li>⇒ New ecological concretes made with carbonated aggregates</li> </ul>  |
| 15 | ISF                  | <ul style="list-style-type: none"> <li>⇒ Immersive environments for manufacturing innovation</li> <li>⇒ Innovation and technology transfer engineering</li> </ul>  |
| 16 | REEE                 | <ul style="list-style-type: none"> <li>⇒ Energy audit</li> <li>⇒ Energy management and optimization</li> <li>⇒ Sustainable development &amp; Smart cities</li> </ul>   |
| 17 | SBM                  | <ul style="list-style-type: none"> <li>⇒ Methods to improve occupant comfort</li> <li>⇒ Smart building applications</li> <li>⇒ Building Information Modelling (BIM)</li> </ul>   |
| 18 | GRAFICS              | <ul style="list-style-type: none"> <li>⇒ Data Mining, Scoring and Big data tools for decision support and actuarial applications</li> <li>⇒ Efficient algorithms for stochastic control, numerical and statistical processing</li> <li>⇒ Sensitivity analysis, quantification of uncertainty, and uncertainty modeling</li> <li>⇒ Rare events analysis for optimal decision making and risk management</li> </ul>  |
| 19 | MMSN                 | <ul style="list-style-type: none"> <li>⇒ Applications of mathematical models and simulation techniques:</li> <li>⇒ Finance: Inverse problem of estimating volatility in the Black and Scholes model</li> <li>⇒ Environment: Parametric estimation in hydrogeology</li> <li>⇒ Oil and Gas: Numerical modeling of the impact of rock mechanics in oil reservoirs on flow in porous media</li> <li>⇒ Biology: modeling electrical activities of the hearts</li> <li>⇒ Civil engineering: Mixed 3D-1D formulation for the analysis of composite beams</li> </ul> |
| 20 | MAIN Team            | <ul style="list-style-type: none"> <li>⇒ Digital Marketing &amp; Data Marketing</li> <li>⇒ Innovation management</li> <li>⇒ Development economics</li> <li>⇒ Business Finance</li> <li>⇒ Human resources</li> <li>⇒ Entrepreneurship</li> </ul>  |
| 21 | ALEER                | <ul style="list-style-type: none"> <li>⇒ Active learning in engineering education</li> <li>⇒ Collaborative project approaches in Engineering education</li> <li>⇒ Case studies in Engineering education &amp; lessons-learned</li> <li>⇒ Learning outcome assessment</li> <li>⇒ Digital technologies in Engineering education</li> </ul>   |
| 22 | FLE                  | <ul style="list-style-type: none"> <li>⇒ English for Specific Purposes</li> <li>⇒ Foreign Language Anxiety</li> <li>⇒ AI: The Future of Language Learning</li> </ul>   |
| 23 | DevProfE             | <ul style="list-style-type: none"> <li>⇒ Management of skills and talents.</li> <li>⇒ Faculty professional development</li> <li>⇒ Applications of AI in the analysis of training programs and trainers.</li> </ul>   |

# Major organized RDI events 2024-2025





## 8<sup>th</sup> EAI International Conference, AfricaTek 2025



ESPRIT had the privilege of co-organizing and hosting the Eighth Edition of the European Alliance for Innovation (EAI) International Conference on Emerging Technologies for Developing Countries (AfricaTek 2025) during the period June 11-13, 2025.

Sponsored by Honoris United Universities and held under the overarching theme “*Emerging Technologies: Pathways to Resilience and Growth in Africa,*” this year’s edition highlighted how cutting-edge innovations can serve as powerful enablers of inclusive and sustainable transformation across the continent.

AfricaTek 2025 brought together a vibrant community of researchers and practitioners from Africa and beyond, offering a unique platform for critical dialogue on the role of emerging technologies in advancing Africa’s development priorities.

A total of 113 submissions were received, including full papers, short papers, and workshop proposals. Each submission was reviewed through a rigorous double-blind process with at least three independent reviews, generating a total of 490 review reports. Following this process, 55 papers were accepted as full papers, 12 as short papers, and 2 as practical workshops. The accepted contributions span diverse domains, including healthcare and wellbeing, intelligent networking and cybersecurity, smart agriculture, smart cities, higher education, Industry 4.0, and sustainable development.

Artificial Intelligence emerged as a central theme, with nearly 70% of accepted papers addressing applications related to machine learning, large language models (LLMs), deep learning, computer vision, natural language processing, and data analytics. This strong representation underscores the pivotal role of AI as a catalyst for innovation, where it offers new opportunities to bridge development gaps, tackle complex challenges, and accelerate sustainable growth.

The program also featured two keynote addresses by Dr. Fawzi BenMessaoud (Indiana University, USA) and Dr. Adel Alimi (ENIS, Tunisia), as well as two practical workshops: AI-enhanced learning (by Wissal Neji and Naouel Boughattas) and GitHub-driven active learning pedagogy (by Badiaa Bouhdid). The Best Paper Award was granted to a team from ESPRIT and Zayed University (UAE) for their research: F. Kamoun, F. Iqbal, H. Abidi, and A. Ben Brik, "Evaluation of Large Language Models in Simulating Real-World Engineering Scenarios and Decision Making: A Comparative Study of ChatGPT-4o, Gemini, and Perplexity."





## AI Summer School



The fourth edition of the MASSAI Summer School took place from June 16 to June 20, 2025. It was organized in partnership with LAMSIN-ENIT, the ESPRIT UNESCO Chair, and NVIDIA's Deep Learning Institute.

The event is targeted for graduate and PhD students, postdocs, academics, members of public or private institutions, and professionals.

The aim of MASSAI was twofold:

- Contribute towards the development of the African potential and stimulate entrepreneurial initiatives in the field of AI.
- Contribute to enriching the AI ecosystem in the region by providing an opportunity to foster collaboration among the different academic actors and industrial players in the AI field.

MASSAI focused on applied AI through a combination of workshops, in-depth tutorials, practical labs and instructor-led workshops.



The MASSAI 2025 edition featured a dynamic and comprehensive program, including:

**Keynote Presentations:** Three inspiring keynotes delivered by Kevin MacFall (NVIDIA), Chouaib Nemri (Google), and Wei Xiao (NVIDIA).

**Workshops with NVIDIA Certificate of Competency:** Five hands-on workshops organized along three specialized learning paths:

- Agentic and Multimodal AI
- AI Applications Development with LLMs
- Autonomous Vehicles

**Student Start-up Competition:** Showcased three innovative case presentations from student teams.

**Poster Session:** Included 27 poster presentations, with awards in the following categories:

- Best AI for Environmental and Social Impact
- Best Innovation in Generative AI
- Best Applied AI Techniques
- Best AI in Communications and Connectivity
- Best Educational Innovation (ESPRIT Special Prize)

## WEITA 2025



During the period February 12-13, 2025, we had the privilege of organizing the second Edition of the Workshop on Emerging ICT Trends & Applications (WEITA), dedicated to the theme: **“Explainable, Interpretable, and Trustworthy AI: Methods, Challenges, and Applications.”** The event was organized in collaboration with EMSI (Morocco), IBM, NVIDIA, IEEE (Tunisia Section) and IEEE Esprit Student Branch. The event was held at ESPRIT and live steamed for remote participants.

This workshop on eXplainable AI (XAI) aimed to explore cutting-edge methods, tackle existing challenges and risks, and discuss practical applications of XAI to address the pressing need for transparency and trust in AI systems

By bringing together researchers and practitioners, this workshop provided an interdisciplinary forum for sharing recent research advancements in XAI approaches, best practices, design principles, open challenges, inherent risks, and practical applications. The program featured keynote presentations, open discussions, and practical, instructor-led hands-on training sessions on XAI.

The workshop was structured around four main themes:

- Technical aspects of XAI (methods, frameworks, and approaches).
- XAI use cases and application areas
- Ethical, security, and legal issues surrounding XAI.
- Hands-on practical training on XAI techniques (Day 2).



WEITA 2025 was organized in two days:

**DAY 1- February 12th:** Onsite event with hybrid online participation

- The first session (half day) drew attention to the state-of-the art in XAI concepts and approaches.
- The second session (half day) provided a deep understanding of the use cases and applications of XAI, while addressing the potential ethical, security, and legal concerns.

**DAY 2- February 13th:** Onsite Participation

- This full-day onsite event consisted of an instructor-led hands-on practical training in XAI that aimed to train participants on how to apply XAI techniques to understand Neural Network decisions, and boost transparency, fairness, accountability and trust in AI decision making.

The event attracted more than 200 participants on day 1 and more than 40 workshop participants on day 2.

## KEYNOTE SPEAKERS



| Speaker Name             | Title  | Session Time (Day 1) |
|--------------------------|--|----------------------|
| Prof. Dr. Wojciech Samek | Technical University of Berlin & Fraunhofer                | 9:15 – 9:55          |
| Prof. Wassila Ouerdane   | CentralCaspian, Paris-Saclay University, France            | 9:55 – 10:35         |
| Dr. Celia Cintas         | Research Scientist, IBM Research Alzira - Madrid           | 10:50 – 11:30        |
| Dr. Mourad Zeral         | ESPRIT School of Engineering                               | 11:30 – 12:15        |
| Prof. Alberto Bock       | Researcher at the Center for Knowledge Science             | 13:00 – 13:40        |
| Prof. Giuseppe Primiero  | Department of Computer Science at the University of Verona | 13:40 – 14:20        |
| Dr. Yazan Mualia         | University of Technology, Sydney, Australia                | 14:20 – 15:00        |
| Dr. Parkhand Iqbal       | Senior Cybersecurity Specialist at IBM Research            | 15:15 – 15:55        |
| Dr. Amit Dhurandhar      | Senior Research Scientist at Google                        | 15:55 – 16:35        |
| Michael Gomez            | Manager, Security & Privacy at NVIDIA                      | 16:35 – 17:15        |

## “Clean & Green 3” Event



The third edition of the Clean & Green event was held on April 26, 27, and 30, 2025.

"Clean and Green" is a collaborative event initiated by the ETM (Esprit Tomorrow's Material) RDI team. The third edition of Clean and Green has emerged as a local flagship event in environmental awareness, innovation, and education. It brought together around 100 participants from various Tunisian engineering and business schools and highlighted the impact of interdisciplinary and inter-school collaboration in addressing sustainable development challenges

### Objective

The main objective of Clean and Green was to raise awareness about environmental challenges and foster innovative, multidisciplinary solutions through teamwork, technical creativity, and strategic thinking. The event encouraged students to take an active role in designing sustainable solutions aligned with ecological, economic, and social considerations. Multidisciplinary student teams (engineering, IT, business) worked on real-life environmental challenges. The event consisted of two main stages:

### Phase 1: Clean and Green hackathon

The goal of the hackathon was to encourage students to develop innovative solutions to address environmental pollution while applying the skills they have acquired throughout their academic studies.

Special training was offered during the hackathon on topics pertaining to Design Thinking, pitching, poster creation and video editing.

### Phase 2: Clean and Green Poster Session

This poster session provided an opportunity for students to present their proposed solutions. It facilitated discussions among all participants, including businesses and associations, and provided students with the opportunity to explore startup ventures.





## Research Incentive Funds

ESPRIT Research Incentive Funds (RIF), also known as "FARDI – Fonds d’Appui à la Recherche, Développement et Innovation," was launched in 2021 as an initiative to promote and encourage research productivity and excellence.

Proposals from ESPRIT research teams were evaluated by a RIF committee composed of 4 members:

- The Director of ESPRIT-Tech (Chair)
- Three members appointed by the Director of ESPRIT-Tech

For the 2024–2025 academic year, the call for the RIF applications aimed to encourage the development of innovative projects that leverage the potential application of Artificial Intelligence to address ESPRIT’s strategic and operational needs.

Proposals were evaluated based on four main criteria: eligibility, relevance, impact, and effectiveness of the implementation. Priority was given to multi-disciplinary applied projects that engage students and that involve the participation of local organizations and industrial partners. The maximum eligible funding was 8,000 Dinars for a 1-year project proposal and 10,000 Dinars for a 2-year proposal.

This year, ESPRIT-Tech received 7 applications, among which 2 proposals were accepted for funding:

| Project Title  | Primary Investigators   | Project Duration |
|--|---|------------------|
| AI Platform for Automated Admission Interviews for New Students                                      | Amel Hedhli (PI)<br>Mohamed Khalil Zghal (Co-PI)<br>Imen Ben Gharbia (Co-PI)  | 24 months        |
| A contextual adaptive learning platform for an engaging and attractive first-year student experience | Faten Ziedi (PI)<br>Boughattas Naouel (Co-PI)<br>Neji Wissal (Co-PI)<br>Hattab Sondes (Co-PI)<br>Sarra Abidi (Co-PI)<br>Sarra Zouari (Co-PI)<br>Rim Somai (Co-PI) | 24 months        |

## Faculty - Ph.D Candidates and Graduates

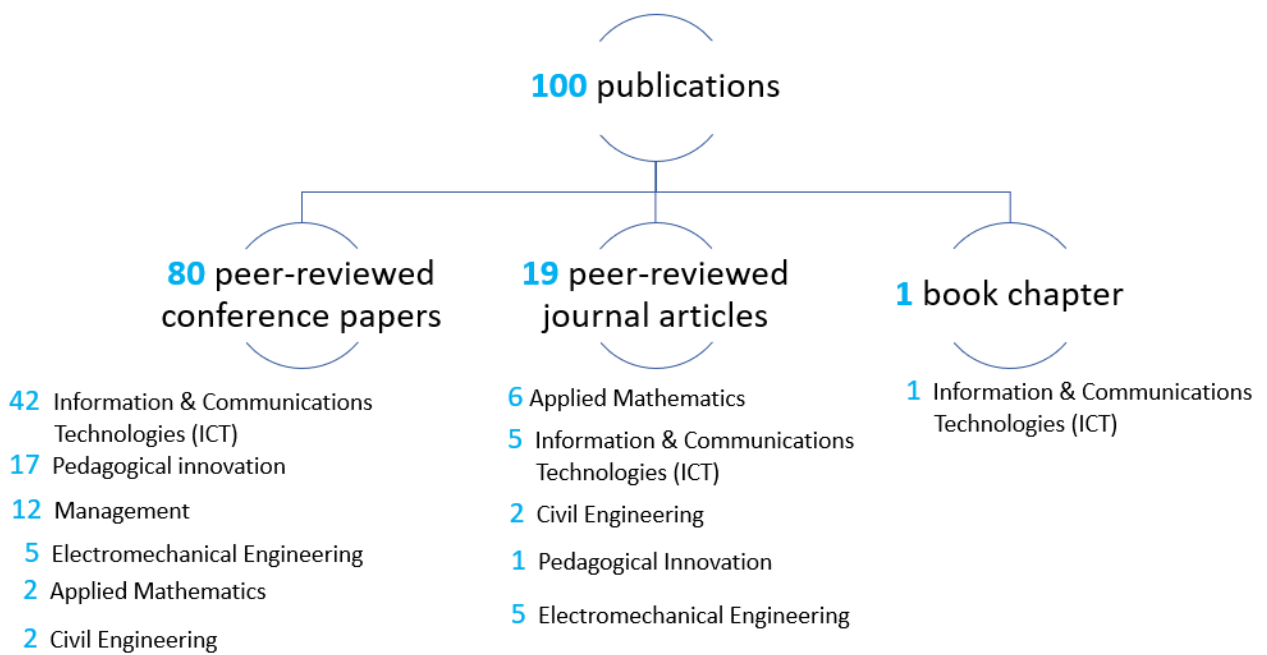
During the 2024-2025 academic year, 2 ESPRIT instructors have successfully completed their PhD degree:

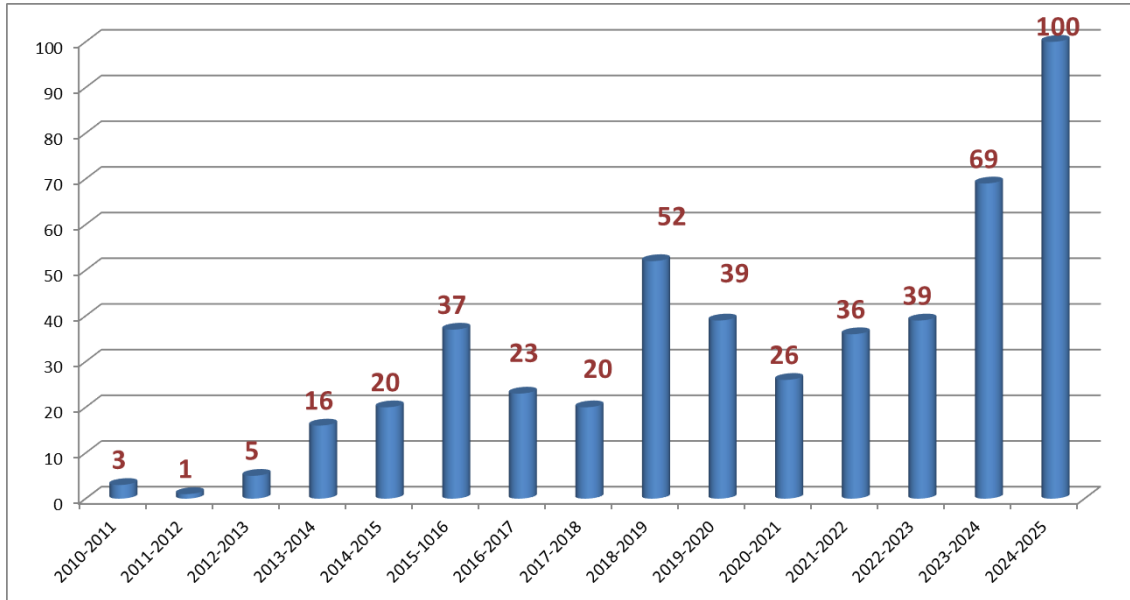
| Faculty name       | Thesis defense date | Thesis title  |
|--------------------|---------------------|---|
| Khouloud Kordoghli | 02/2025             | Identification of the Role of the Rapid Conduction System in the Maintenance of Cardiac Arrhythmias: Mathematical Modelling, Theoretical and Numerical Analysis. Analyse stochastique et Applications Lab, Université de Tunis el Manar (FST) |
| Oumayma Jouini     | 04/2025             | Artificial intelligence and blockchain solutions for sustainable agriculture. Innov'COM Lab, Sup'COM  |

In addition, during the same period, 8 ESPRIT instructors were pursuing their PhD studies at research laboratories affiliated with public universities:

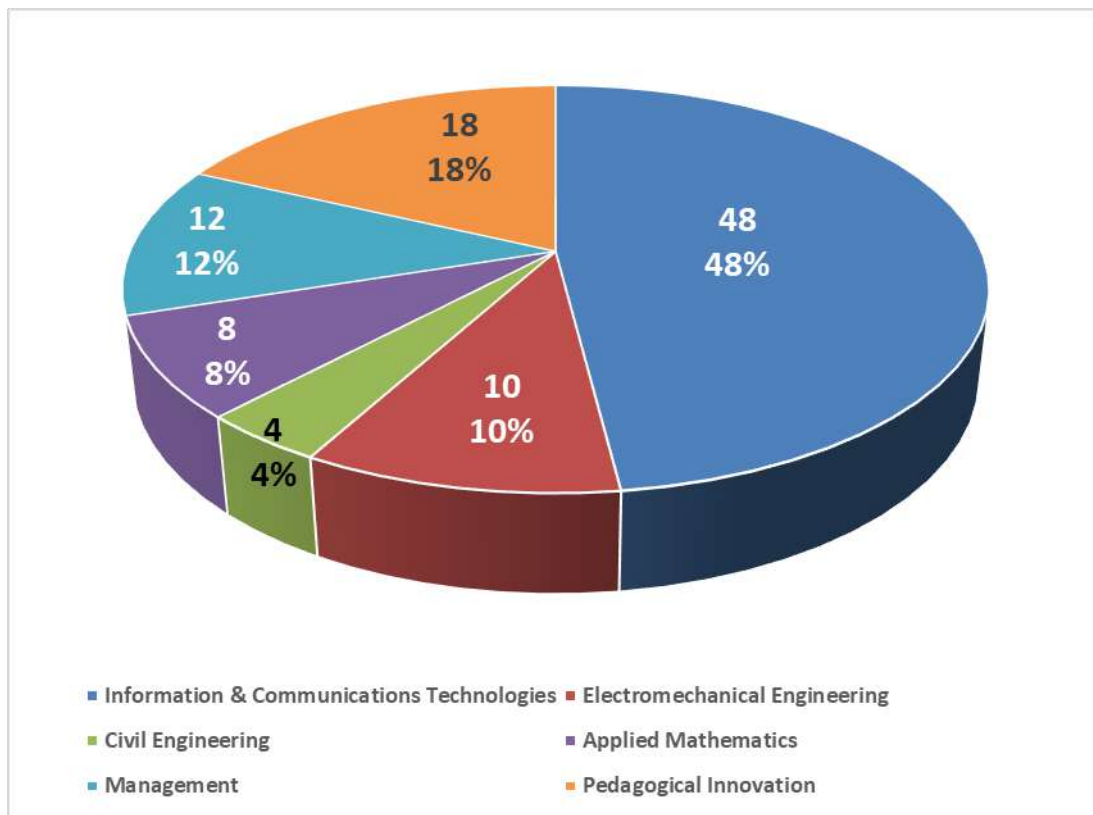
| Faculty name      | Thesis title / Research Lab/Institution   |
|-------------------|---|
| Imen Guebebia     | Etude de faisabilité technico-économique de la tri-génération par concentration solaire. UR-Mécanique-énergétique Lab, Ecole Nationale des Ingénieurs de Tunis (ENIT).  |
| Nawal Hamdi       | Qos management approach for smart contract on blockchain. MIRACL Lab. ISITCOM.  |
| Esleme Hadj Sassi | Le délit de contrefaçon en droit international privé. Faculté des sciences juridiques politiques et sociales deTunis.   |
| Khouloud Ammar    | Towards a Representation Learning Approach for Large-Scale Heterogeneous Graphs. LIPAH, FST El MANAR, and LIMOS clermont-ferrand university, France.  |
| Safa Lasmar       | Aide à la décision pour le problème de localisation et allocation des centres de dialyse. Laboratoire de recherche Analyse, Conception et Commande des systèmes (LR-ACS), Ecole Nationale des Ingénieurs de Tunis (ENIT).                         |
| Yassine Boussaa   | Dynamic Stability of Power Systems with Large-Scale Integration of Renewable Energy Sources: A Koopman Operator-Based Analysis. Laboratory of Electrical Systems (LSE), National Engineering School of Tunis (ENIT), University of Tunis El Manar |
| Wiem Baazouzi     | Contributions à l'Annotation Sémantique des Données Tabulaires et ses Applications. RIADI Lab. ENSI   |
| Safa Mhadhbi      | Coupled Flow-Geomechanics and Risk Governance for Integrity Preserving CO <sub>2</sub> Sequestration in Carbonate Settings: The Hasdrubal Case, Gulf of Gabes. Ingénierie Géotechnique (LR-ING-ENIT) - ENIT                                       |

## RDI publications highlights 2024-2025 Academic Year (AY)

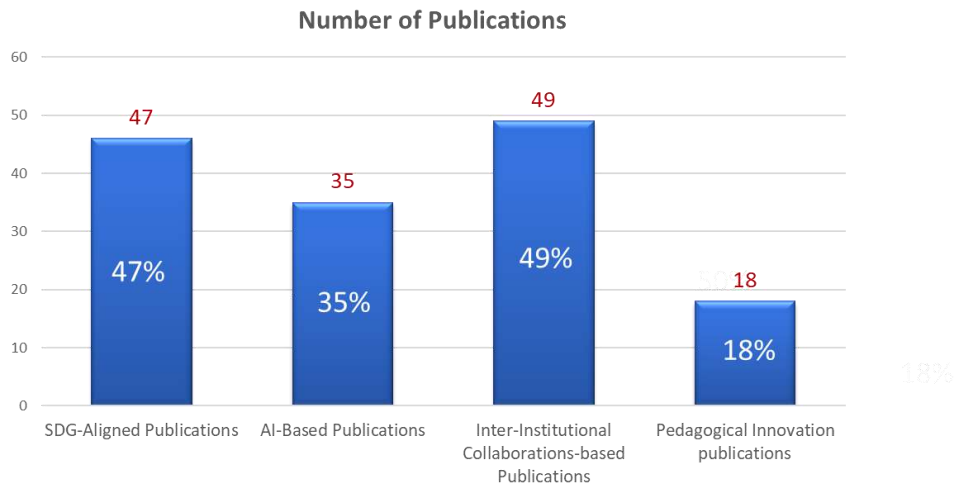




**Evolution of the number of research publications: 2010-2025**



**Repartition of RDI publications by field**



**Distribution of Research Publications Across Key Strategic Dimensions (N = 100)**

According to the **AD Scientific Index** database, ESPRIT is ranked 12<sup>th</sup> at the National level and the 1<sup>st</sup> among all private higher education institutions in Tunisia. For more details, visit <https://www.adscientificindex.com/university/ESPRIT/>.

# Information & Communications Technologies



## ICT RDI Publications (2024-2025 AY)

| #  |  | Type <sup>1</sup> |
|----|--|-------------------|
| 1  | <b>Manai Manel, Nadia Chagtmi, and Noureddine Boulejfen.</b> "Design of Dual-Band Rat-Race Combiner." IJCSNS International Journal of Computer Science and Network Security, VOL.23. No.3. IJCSNS 24.11 (2024): 55.<br><a href="https://doi.org/10.22937/IJCSNS.2024.24.11.6">https://doi.org/10.22937/IJCSNS.2024.24.11.6</a>   | JA                |
| 2  | Dakhli, Saber, Jean-Marie Floc'h, <b>Ameni Mersani</b> , and Hatem Rmili. "Pattern-Reconfigurable Antenna Using Four-Elements Planar Bended Dipole Array for 5G Beam-Switching Applications." Engineering Reports 7, no. 4 (2025): e70086. Wiley.<br><a href="https://doi.org/10.1002/eng2.70086">https://doi.org/10.1002/eng2.70086</a>   | JA                |
| 3  | Bendaly H. Yousra, and <b>Salma Ayari.</b> "An Approach to Develop Correct-by-Construction Business Process Models Using a Formal Domain Specific Language." Journal of Software: Evolution and Process 37, no. 2 (2025): e2762.<br><a href="https://doi.org/10.1002/smr.2762">https://doi.org/10.1002/smr.2762</a>  | JA                |
| 4  | Dakhli, S., Floc'h, J. M., <b>Mersani, A.</b> , & Rmili, H. "Pattern-reconfigurable printed dipole antenna for wireless communication systems." Progress In Electromagnetics Research C, 151, 149–156. 2025.<br><a href="https://doi.org/10.2528/PIERC24101402">https://doi.org/10.2528/PIERC24101402</a>  | JA                |
| 5  | <b>Bel Hadj Hassin, A.</b> , & Omri, E. "Multi-label seabed image classification: A comparative study of deep learning and machine learning models." Journal of King Abdulaziz University: Marine Sciences. 2025 (In-press)  | JA                |
| 6  | <b>Hjiri Wiem, Belkneni Maroua, Fayechi Sana, Mannoubi Farah,</b> "Virtual Coaching Systems: MINDSCAPE a Mental Health Application." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer. | CP                |
| 7  | <b>Guesmi, Latifa, Ameni Mejri, Asma Radhouane, and Khadija Zribi.</b> "Advanced Predictive Modeling for Enhancing Traffic Forecasting in Emerging Cellular Networks." In 2024 15th International Conference on Network of the Future (NoF), pp. 209-213. IEEE, 2024.<br><a href="https://doi.org/10.1109/NoF62948.2024.10741363">https://doi.org/10.1109/NoF62948.2024.10741363</a>                     | CP                |
| 8  | <b>Baazouzi, Wiem,</b> Marouen Kachroudi, and Sami Faiz. "Kepler-aSI: Semantic Annotation for Tabular Data." SemTab'24: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching 2024, November 11-15, 2024, Baltimore, USA.<br><a href="https://ceur-ws.org/Vol-3889/paper1.pdf">https://ceur-ws.org/Vol-3889/paper1.pdf</a>  | CP                |
| 9  | ABADA, Wafia, Abdelkrim BOURAMOUL, and <b>Asma AYARI.</b> "CoMediC: Empowering Collaborative and Participatory Medical Multimodal Data Collection Projects." The 13th Conference on Research in Computing at Feminine (RIF 2024), Constantine, Algeria.<br><a href="https://ceur-ws.org/Vol-3935/Paper1.pdf">https://ceur-ws.org/Vol-3935/Paper1.pdf</a>   | CP                |
| 10 | Faouel, Rihab, <b>Maha Added,</b> and Noureddine Boulejfen. "High Performance RFID Temperature Sensor for IoT Applications." In 2024 International Microwave and Antenna Symposium (IMAS), pp. 1-5. IEEE, October 2024, Marrakech, Morocco.<br><a href="https://doi.org/10.1109/IMAS61316.2024.10817916">https://doi.org/10.1109/IMAS61316.2024.10817916</a>   | CP                |

1\* JA: Journal Article – CP: Conference Paper - BC : Book Chapter – WS: Workshop

| #  |  | Type <sup>1</sup> |
|----|--|-------------------|
| 11 | <b>Hanfi, Nardine, and Mohamed Hedi Riahi.</b> "Sarcasm Detection Revisited: Reproducing and Comparing Top-Performing Techniques on a Standardized Dataset." 2024 Artificial Intelligence Revolutions (AIR). IEEE, 2024.<br><a href="https://doi.org/10.1109/AIR63653.2024.00022">https://doi.org/10.1109/AIR63653.2024.00022</a>  | CP                |
| 12 | <b>Wiem Baazouzi,</b> "Enhancing Multi-Answer Query Performance with Knowledge Graphs." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 13 | <b>Bouhdid, Badia, and Mohamed Aissa.</b> "Reliable and Energy-Efficient Clustering Approach for FANETs Using a Fuzzy Logic System." International Conference on Advanced Information Networking and Applications. AINA 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 252. Springer, Cham.<br><a href="https://doi.org/10.1007/978-3-031-87784-1_2">https://doi.org/10.1007/978-3-031-87784-1_2</a>   | CP                |
| 14 | <b>Riahi Mohamed Hedi, Hanfi Nardine, and Rachdi Selim,</b> "Enhanced Agentic RAG System with Specialized Knowledge Indices for Orthopedic Sports Medicine.", AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 15 | <b>Elwerghemmi, R., Zaibi, D., Ksontini, R., Bouallegue, R.</b> "Toward a Mixture of Ensemble Learning Method-Based Experts for Evaluating the Quality of Experience in Video Streaming." In: Barolli, L. (eds) Advanced Information Networking and Applications. AINA 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 245. Springer, Cham.<br><a href="https://doi.org/10.1007/978-3-031-87763-6_34">https://doi.org/10.1007/978-3-031-87763-6_34</a>                            | CP                |
| 16 | <b>Elwerghemmi, R., Ksontini, R., Bouallegue, R.</b> "Mixture of Incremental SVM-Based Experts for Enhanced QoE Prediction in Video Streaming". In: Barolli, L. (eds) Advanced Information Networking and Applications. AINA 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 245. Springer, Cham.<br><a href="https://doi.org/10.1007/978-3-031-87763-6_33">https://doi.org/10.1007/978-3-031-87763-6_33</a>  | CP                |
| 17 | <b>Mersani Ameni, Mintoua Toupkandi, and Hiba Jouini.</b> "Design and Implementation of an Energy-Autonomous IoT Sensor Node for Smart Agriculture." In: Barolli, L. (eds) Advanced Information Networking and Applications. AINA 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 245. Springer, Cham.<br><a href="https://doi.org/10.1007/978-3-031-87784-1_3">https://doi.org/10.1007/978-3-031-87784-1_3</a>   | CP                |
| 18 | <b>D. A. Abongo, A. Kehila, S. Cherif, R. Bouraoui and Z. Labidi,</b> "A new Framework for Failure Classification in 5G Core Network," 2024 IEEE Eleventh International Conference on Communications and Networking (ComNet), Hammamet, Tunisia, 2024, pp. 1-7, doi:<br><a href="https://doi.org/10.1109/ComNet64071.2024.10987290">https://doi.org/10.1109/ComNet64071.2024.10987290</a>  | CP                |
| 19 | <b>Riahi Mohamed Hedi , Fehmi, Fedi, Ncib, Lotfi .</b> "AI-Powered Chatbot for Personalized Sports Training: Enhancing Engagement with LLM and RAG Architecture." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 20 | <b>Riahi Mohamed Hedi , Rahmouni Khalil , Trabelsi Mustapha.</b> "Object Detection System for Estimating Volume and Weight of Fruits and Vegetables." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 21 | <b>Mosbah, S., Hrzi, D., Bokri, I., Moulehem, E.B., Fgaier, M., Ammar, N.B., Gharsallah, M. and Trabelsi, N.</b> "Acoustic Detection of European Bee-Eaters Using YAMNet and Bi-LSTM Networks for Honeybee Protection." In: Barolli, L. (eds) Advanced Information Networking and Applications. AINA 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 250. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-87778-0_11">https://doi.org/10.1007/978-3-031-87778-0_11</a> | CP                |

| #  |  | Type <sup>1</sup> |
|----|--|-------------------|
| 22 | <b>Aouini, I.</b> "SG-BC: Evaluating Latency Blockchain Enabling SmartGrid." In: Barolli, L. (eds) Advanced Information Networking and Applications. AINA 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 252. Springer, Cham.<br><a href="https://doi.org/10.1007/978-3-031-87784-1_21">https://doi.org/10.1007/978-3-031-87784-1_21</a>   | CP                |
| 23 | <b>Zouaidi Soukeina, Messaoudi Hafawa.</b> "Blockchain Based Task Offloading for Parked Vehicular Cloud". AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 24 | <b>Mosbah Sonia,</b> "Comparative Analysis of Machine Learning Regression Models for Pollutant Concentration Prediction." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 25 | <b>Wali, R.</b> "Design of a Novel Tunable Varactor-Compensated Phase Shifter Based-on Schiffman Topology for Ku-Band Continuous Beam Steering Applications." In: Barolli, L. (eds) Advanced Information Networking and Applications. AINA 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 245. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-87763-6_14">https://doi.org/10.1007/978-3-031-87763-6_14</a> | CP                |
| 26 | <b>N. Samet, A. B. Letaifa, M. Hamdi and S. Tabbene,</b> "Adaptive cloud-based mobile video streaming service using real-time QoE estimation," 2024 International Wireless Communications and Mobile Computing (IWCMC), Ayia Napa, Cyprus, 2024, pp. 1309-1314, <a href="https://doi.org/10.1109/IWCMC61514.2024.10592392">https://doi.org/10.1109/IWCMC61514.2024.10592392</a>  | CP                |
| 27 | <b>Jmal Yosra, Hachani Abderrazek, Maalej Elyess.</b> "An AIoT Solution for Sleep Apnea prediction using ECG Signals." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.   | CP                |
| 28 | <b>Lamine Amani, Nheri Soumya, Mejri, Ameni.</b> "A Survey on the Integration of AI in UAVs and Satellites for Sustainable Development in Africa". AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.                               | CP                |
| 29 | <b>Neji Wissal , Boughattas Naouel , Ziadi Faten, Zouari Sarra, Abid Sarra.</b> "Transforming Real Estate Pricing in Tunisia: From traditional ML Methods to LLMs Model." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.        | CP                |
| 30 | <b>W. Baazouzi, M. Kachroudi and S. Faiz,</b> "Are my Answers Medically Accurate? Answers Reliability Regarding Questions over Healthcare Knowledge Graphs," 2024 IEEE/ACS 21st International Conference on Computer Systems and Applications (AICCSA), Sousse, Tunisia, 2024, pp. 1-6, <a href="https://doi.org/10.1109/AICCSA63423.2024.10912558">https://doi.org/10.1109/AICCSA63423.2024.10912558</a>  | CP                |
| 31 | <b>M. Belkneni, K. Guedria, S. Chamakhi, W. Hjiri and N. Ben Slimen,</b> "Development of an Artificial Intelligence-Based Companion clone," 2025 International Wireless Communications and Mobile Computing (IWCMC), Abu Dhabi, United Arab Emirates, 2025, pp. 435-440, <a href="https://doi.org/10.1109/IWCMC65282.2025.11059604">https://doi.org/10.1109/IWCMC65282.2025.11059604</a>   | CP                |
| 32 | <b>H. Fourati and L. A. Saidane,</b> "Artificial Intelligence use in Sign Recognition: a dataset in Tunisian Sign Language," 2025 International Wireless Communications and Mobile Computing (IWCMC), Abu Dhabi, United Arab Emirates, 2025, pp. 618-623, <a href="https://doi.org/10.1109/IWCMC65282.2025.11059445">https://doi.org/10.1109/IWCMC65282.2025.11059445</a>  | CP                |

| #  |  | Type <sup>1</sup> |
|----|--|-------------------|
| 33 | <b>Teber Feten, Chagtmia Nadia.</b> "The Maghreb in the Era of Industry 4.0 Opportunities and Challenges.", AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 34 | <b>Braiek Hamdi Nagati, Nadim Trabelsi, Mayssa, Ben Ayed Amir, Mezni Nidhal, Askri Mohamed Amine.</b> "Advanced Spatio-Temporal Modeling of Seagrass Meadows Through Machine Learning Techniques." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer. | CP                |
| 35 | <b>Mersani Ameni, Jouini Hiba, Bensmida Rym.</b> "Artificial Intelligence-Based Traffic Light Control System for Sustainable Urban Mobility and Environmental Impact Reduction." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.                   | CP                |
| 36 | <b>Hazem, Kalboussi.</b> "AI-Enhanced Intelligent Transplantation Machine Based on IoT for Optimized Plant Growth." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 37 | <b>Thauraya Makni, Asma Baghdadi, Rania Chawali.</b> "The Impact of an AI-Enhanced Training on Student Wellbeing and Quality Education: ResilienceBOT Case Study." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.                                 | CP                |
| 38 | <b>Fourati, H., Ayari, I., &amp; Azouz Saidane, L.</b> "Artificial Intelligence Use for Intelligent Agriculture." 21st International Wireless Communications and Mobile Computing Conference (IWCMC 2025). Abu Dhabi, UAE. May 2025  | CP                |
| 39 | <b>Abidi, S., Chebbi, I., Ayed, L.B.</b> "A DNN Model-Based Behavioral System for Injury Detection and Rehabilitation." In: Arai, K. (eds) Proceedings of the Future Technologies Conference (FTC) 2024, Volume 4. FTC 2024. Lecture Notes in Networks and Systems, vol 1157. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-73128-0_38">https://doi.org/10.1007/978-3-031-73128-0_38</a>  | CP                |
| 40 | <b>Abidi, S., Chebbi, I. &amp; Ben Ayed, L.</b> "Toward Smart and Personalized Web Service bComposition: An AI-Based Approach." In: Kumar, A., Swaroop, A., Shukla, P. (eds) Proceedings of Fourth International Conference on Computing and Communication Networks. ICCCN 2024. Lecture Notes in Networks and Systems, vol 1292. Springer, Singapore.   | CP                |
| 41 | <b>Zouaidi, S.</b> "Blockchain for Cloud/Edge/Fog Computing: A Review." In: Kumar, A., Swaroop, A., Shukla, P. (eds) Proceedings of Fourth International Conference on Computing and Communication Networks. ICCCN 2024. Lecture Notes in Networks and Systems, vol 1292. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-96-3250-3_18">https://doi.org/10.1007/978-981-96-3250-3_18</a>   | CP                |
| 42 | <b>Jmal, Y., Yaacoub, S.</b> "Forecasting Patient Arrivals in Emergency Departments Using Time Series Prediction Models: A Research at a Tunisian Emergency Department." In: Ordonez, C., Sperli, G., Masciari, E., Bellatreche, L. (eds) Model and Data Engineering. MEDI 2024. Lecture Notes in Computer Science, vol 15590. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-87719-3_10">https://doi.org/10.1007/978-3-031-87719-3_10</a>                 | CP                |
| 43 | <b>Jmal, Y., &amp; Yaacoub, S.</b> "La prediction des délais d'attente dans un service d'urgence hospitalier par apprentissage automatique." Conférence Internationale sur L'intelligence Artificielle et le Multimédias, IAMM'2024. Institut Supérieur des Arts Multimédia de la Manouba. Tunisie.  | CP                |

| #  |   | Type <sup>1</sup> |
|----|---|-------------------|
| 44 | <b>Oumayma Fazzeni, Sarra Lachheb, Mohamed Iyed Lagha, and Mohamed Hedi Riahi</b> , "An Intelligent RAG-Based System for Personalized Musculoskeletal Injury Rehabilitation and Decision Support." The International Conference on Artificial Intelligence and Cognitive Science for Emerging Technologies (AICSET 2025). July 14-16, Marrakech, Morocco, 2025.   | CP                |
| 45 | <b>Hiba Jouini and Rym Ben Smida</b> . "Emerging Technologies for Sustainable Development." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.   | CP                |
| 46 | <b>Mohamed Hedi Riahi</b> . "Optimizing SQL Injection Detection: A Comparative Analysis of Embedding Methods with XGBoost." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.   | CP                |
| 47 | <b>Nadia Chagtmi, Maha Added, Karima Rabaani, Nouredine Boulejfen</b> . "Temperature and Humidity Chipless RFID Sensors using smart materials for Agritech Applications." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer. | CP                |
| 48 | <b>Kamoun, F., Iqbal, F., Zeresenay, S., Khalid, Z., Ikuesan, R., &amp; Abraham, S.</b> "Metaverse forensics: A preliminary analysis of opportunities and challenges." In: H.N. Elshenraki (editor) Forecasting Cybercrimes in the Age of the Metaverse, 182-208. IGI Global. DOI: 10.4018/979-8-3693-0220-0  | BC                |

# Electromechanical Engineering

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# Electromechanical Engineering

## RDI Publications (2024-2025 AY)

| #  | RDI publication   | Type <sup>2</sup> |
|----|---|-------------------|
| 1  | <b>Boussaa, Y., Ben Kilani, K., &amp; Elleuch, M.</b> "Characterization of Wind-driven Oscillations in Power Systems: Topology, Mechanism, and Stability Implications." <i>Journal of Electrical Systems</i> , 21(1), 86–101. 2025  | JA                |
| 2  | <b>Mansouri, Nouha, Abderezak Lashab, Majid Ali, Chokri Bouchoucha, Josep Guerrero, and Juan Vasquez.</b> 2024. "Reserve Technique in Integrating Large Sustainable Energy Sources: A Case Study of the Tunisian Grid". <i>Sustainability</i> 16, no. 23: 10791. <a href="https://doi.org/10.3390/su162310791">https://doi.org/10.3390/su162310791</a>  | JA                |
| 3  | Nasri, Sihem, <b>Nouha Mansouri, Aymen Mnassri, Abderezak Lashab, Juan Vasquez, and Hegazy Rezk.</b> 2025. "Global Analysis of Electric Vehicle Charging Infrastructure and Sustainable Energy Sources Solutions." <i>World Electric Vehicle Journal</i> 16, no. 4: 194. <a href="https://doi.org/10.3390/wevj16040194">https://doi.org/10.3390/wevj16040194</a>  | JA                |
| 4  | <b>Mansouri, Nouha, Aymen Mnassri, Sihem Nasri, Majid Ali, Abderezak Lashab, Juan C. Vasquez, and Josep M. Guerrero.</b> 2025. "Control and Optimization of Hydrogen Hybrid Electric Vehicles Using GPS-Based Speed Estimation." <i>Electronics</i> 14, no. 1: 110. <a href="https://doi.org/10.3390/electronics14010110">https://doi.org/10.3390/electronics14010110</a>   | JA                |
| 5  | <b>Mansouri, Nouha, Sihem Nasri, Aymen Mnassri, Abderezak Lashab, Juan C. Vasquez, Adnane Cherif, and Hegazy Rezk.</b> "Electric Vehicle Charging Infrastructure: Impacts and Future Challenges of Photovoltaic Integration with Examples from a Tunisian Case." <i>World Electric Vehicle Journal</i> 16, no. 7: 349. <a href="https://doi.org/10.3390/wevj16070349">https://doi.org/10.3390/wevj16070349</a>  | JA                |
| 6  | Godji, M., <b>Brik, A., Dhahri, J. &amp; Ben Fedj, N.,</b> "Evaluating Machining Process Capability Index Considering Measurement System Errors." 9ème Journées Scientifiques et Techniques en Mécanique et Matériaux JSTMM2024, 20-22 December, 2024. Hammamet, Tunisia.   | CP                |
| 7  | <b>N. Mansouri, S. Nasri, A. Cherif and A. Mnassri,</b> "Optimized Intelligent Energy Management for Isolated Smart Homes with Solar, Hydrogen, and V2H Integration." 2025 7th Global Power, Energy and Communication Conference (GPECOM), Bochum, Germany, 2025, pp. 349-354, <a href="https://doi.org/10.1109/GPECOM65896.2025.11061941">https://doi.org/10.1109/GPECOM65896.2025.11061941</a>  | CP                |
| 8  | S. Nasri, <b>N. Mansouri, A. Mnassri</b> and A. Cherif, "V2G-Enabled Smart Energy Management for Sustainable Home Electrification," 2025 7th Global Power, Energy and Communication Conference (GPECOM), Bochum, Germany, 2025, pp. 355-360, <a href="https://doi.org/10.1109/GPECOM65896.2025.11061960">https://doi.org/10.1109/GPECOM65896.2025.11061960</a> .  | CP                |
| 9  | <b>Ben Yahia, Mohamed Selmene .</b> "Identifying Electrochemical Parameters of PEMFC Fuel Cells by Artificial Intelligence: Methods, Results and Industrial Perspectives." <i>AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries</i> , Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer | CP                |
| 10 | <b>Y. Boussaa, K. Ben Kilani, and M. Elleuch,</b> "Advanced framework of power systems analysis using the Koopman operator," in <i>Book of Abstracts, Proc. Engineering &amp; Technology (PET)</i> , vol. 91, CIER 2024, Sousse, Tunisia, Dec. 2024, pp. 117–125. Available: <a href="https://cnpsi.com/PET/Issues.html">https://cnpsi.com/PET/Issues.html</a>  | CP                |

2\* JA : Journal Article ; CP : Conference Paper

# Civil Engineering



# Civil Engineering RDI Publications (2024-2025 AY)

| # | RDI publication  | Type <sup>3</sup> |
|---|--|-------------------|
| 1 | <b>Allani, Anissa</b> , and Nizar Bel Hadj Ali. "Design Optimisation and Performance Evaluation of Single and Multiple Tuned Mass Dampers Controlling Multiple Degrees of Freedom Structures." Proceedings of the Institution of Civil Engineers-Structures and Buildings 178.4 (2025): 387-401. <a href="https://doi.org/10.1680/jstbu.24.00095">https://doi.org/10.1680/jstbu.24.00095</a>             | JA                |
| 2 | <b>Anissa Allani</b> and Nizar Bel Hadj Ali. "Investigating Criteria for the Optimization of Single and Multiple Tuned Mass Dampers." ICE Structures and Buildings, Volume 178, Issue 1, pp. 105-119. 2025. <a href="https://doi.org/10.1680/jstbu.24.00025">https://doi.org/10.1680/jstbu.24.00025</a>  | JA                |
| 3 | <b>Taheni Kallel</b> . "Nanocoating Technology for Enhancing Compressed Earth Blocks". 1st International Conference on Materials Science and Applications (ICMSA2024). 1-3 November 2024, Sousse. Tunisia.   | CP                |
| 4 | <b>Beji, Afif</b> and <b>Gharbi, Ghanem</b> . "AI-Powered System for Detecting Structural Pathologies in Civil Engineering: Aigis.", AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer. | CP                |

2\* JA : Journal Article ; CP : Conference Paper



# Applied Mathematics RDI Publications (2024-2025 AY)

| # | RDI publication   | Type <sup>4</sup> |
|---|---|-------------------|
| 1 | Dridi, B., <b>Amor Ben Ali, A.</b> , & Jaidane, R. " Sign-changing solutions for a weighted Kirchhoff problem with exponential growth non-linearity." Complex Variables and Elliptic Equations, 1-29. DOI: 10.1080/17476933.2024.2310250<br><a href="https://www.tandfonline.com/doi/abs/10.1080/17476933.2024.2310250">https://www.tandfonline.com/doi/abs/10.1080/17476933.2024.2310250</a>                                     | JA                |
| 2 | Attia, Najmedine and <b>Meriem Ben Hadj Khalifa</b> . "Note on The Multifractal Formalism of Covering Number on The Galton-Watson Tree." Kragujevac Journal of Mathematics 49.1 (2025): 43-60.<br><a href="https://doi.org/10.46793/KgJMat2501.043A">https://doi.org/10.46793/KgJMat2501.043A</a>   | JA                |
| 3 | <b>Salem, L.</b> , Zili, M. "Stochastic heat equation driven by space-only fractional Lévy noise." Fract Calc Appl Anal 28, 1657–1680 (2025).<br><a href="https://doi.org/10.1007/s13540-025-00389-2">https://doi.org/10.1007/s13540-025-00389-2</a>  | JA                |
| 4 | Imene Bendahou, <b>Zied Khemiri</b> , Fethi Mahmoudi. "Nonlocal Hénon type problem with nonlinearities involving slightly subcritical growth." Journal of Differential Equations, Volume 414, 2025,<br><a href="https://doi.org/10.1016/j.jde.2024.09.016">https://doi.org/10.1016/j.jde.2024.09.016</a>  | JA                |
| 5 | Hend Ben Ameer, Nizar Kharrat, <b>Mohamed Hedi Riahi</b> . "A posteriori error analysis for a multidimensional hydrogeological parameter estimation in a time dependent model." Computers & Mathematics with Applications, Volume 169, 2024, Pages 237-252,<br><a href="https://doi.org/10.1016/j.camwa.2024.06.025">https://doi.org/10.1016/j.camwa.2024.06.025</a>  | JA                |
| 6 | <b>Braiek, H.</b> "Primal-Dual Method for Image Denoising with Variable Exponent Sobolev Spaces." Moroccan Journal of Pure and Applied Analysis, 11(2), 117–133.<br><a href="https://doi.org/10.34874/PRSM.mjpa-vol11iss2.5711">https://doi.org/10.34874/PRSM.mjpa-vol11iss2.5711</a>   | JA                |
| 7 | <b>Hedhli, A., Riahi, M.H.</b> , Ncib, L. "Measure of Portfolio Risk Market: VaR Adjusted to the Specificities of the Financial Markets." In: Barkaoui, K., Gmati, N., Roche, M. (eds) African Conference on Research in Computer Science and Applied Mathematics. CARI 2024. Trends in Mathematics. Birkhäuser, Cham.<br><a href="https://doi.org/10.1007/978-3-031-90510-0_28">https://doi.org/10.1007/978-3-031-90510-0_28</a> | CP                |
| 8 | <b>Bilel Charfi</b> , "Classification of Sectoral Performance in the Tunisian Stock Market.", AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.   | CP                |

4\* JA : Journal Article ; CP : Conference Paper

# Management



# Management RDI publication

## (2024-2025 AY)

| # | RDI publication  | Type <sup>5</sup> |
|---|--|-------------------|
| 1 | <b>Amal Ben Cheikh</b> , Tahar Lazhar Ayed, Tarek Mejri. "Unraveling performance dynamics through data-driven exploration of digitalization, innovation and analytical skills." EURAM 2024 - European Academy of Management Conference, University of Bath School of Management. No. hal-05039975. 2024. <a href="https://ideas.repec.org/p/hal/journal/hal-05039975.html">https://ideas.repec.org/p/hal/journal/hal-05039975.html</a>   | CP                |
| 2 | <b>Ben Cheikh A.</b> , Ayed, T.-L., Mejri, T., and Ben Abdllah, M. A. "Digitalization and Financial Performance in French SMEs: The Mediating Role of Analytical Skills and Innovation." Paper presented at the International Conference on Digital Transformation and Management (ICDTM'25). May 30–31, 2025. Hammamet, Tunisia   | CP                |
| 3 | Chebab, S., Hadj Salem, H., <b>Ben Cheikh, A.</b> , and Talbi, L. "L'impact de la Réalité Augmentée sur L'intention D'adoption dans le Secteur des accessoires de Mode : Une Étude Auprès des Consommateurs Tunisiens." Paper presented at the 22nd International Conference of the ATM (Association Tunisienne de Marketing). April 25–26, 2025. Sousse, Tunisia  | CP                |
| 4 | Zarrad, H., Bane, D., and <b>Ben Cheikh, A.</b> "Développer une Marque Employeur: Étude de L'effet Médiateur Entre la Congruence des Valeurs et L'identification Organisationnelle." Paper presented at the 22nd International Conference of the ATM (Association Tunisienne de Marketing). April 25–26, 2025. Sousse, Tunisia   | CP                |
| 5 | Raouefi, M., Zarrad, H., and <b>Ben Cheikh, A.</b> "Prédire L'intention d'achat des Produits Équitables : Analyse des Facteurs Individuels et Sociaux." Paper presented at the 22nd International Conference of the ATM (Association Tunisienne de Marketing). April 25–26, 2025. Sousse, Tunisia  | CP                |
| 6 | Zarrad, H., Ben Abich, M., <b>Ben Cheikh, A.</b> , and Bakini, "Investigating Factors Influencing Consumers' Water Conservation Behaviour: The Moderating Role of Information Publicity." Paper presented at the Company and Climate Change Conference. December 20–22, 2024. Hammamet, Tunisia  | CP                |
| 7 | <b>Ben Cheikh, A.</b> , Zarrad, H., and Bakini, F. "Decoding Decisions: Can Machine Learning, Purchase Duration, Product Recommendations, and Social Media Dependency Shape Consideration Sets and Steer End-User Purchasing Choices?." Paper presented at the ATIS-ICBR Conference. November 3–10, 2024. Hammamet, Tunisia  | CP                |
| 8 | <b>Ben Cheikh Amal</b> and <b>Allaya Ayda</b> . "When AI, self-efficacy, opportunity recognition and culture lead to entrepreneurial intention among students? the moderating role of gender and education." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer. | CP                |

5\* JA : Journal Article ; BC : Book Chapter ; CP : Conference Paper

| #  | RDI publication   | Type <sup>5</sup> |
|----|---|-------------------|
| 9  | <b>Ines Mhaya and Soukeina Touiti.</b> "The behavioral Intention to use intelligent devices using an extension of UTAUT model: Case of Tunisian consumers." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer  | CP                |
| 10 | <b>Bel hadj Hasssin Anis, Nagati Nadim, Trabelsi Mayssa , Ben Ayed Amir, Askri Mohamed Amine, and Mezni Nidhal.</b> "The Advisor: AI-Powered Sentiment Analysis for Multilingual Customer Feedback." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer | CP                |
| 11 | <b>Mariem Zorgui and Dhouha Melliti,</b> "Impact du changement climatique sur la souveraineté des pays du Sud Global ? XXXème Colloque International Fédérateur de l'Institut CEDIMES . 28 -30 Novembre 2024, Hammamet, Tunisie.  | CP                |
| 12 | <b>Dhouha Melliti and Mariem Zorgui.</b> "Innovation verte pour un avenir plus vert : Une Meta- analyse de l'impact sur la performance environnementale." XXXème Colloque International Fédérateur de l'Institut CEDIMES . 28 -30 Novembre 2024, Hammamet, Tunisie.   | CP                |

# Pedagogical Innovation RDI Publications



# Pedagogical Innovation RDI Publications (2024-2025 AY)

| # | RDI publication  | Type <sup>6</sup> |
|---|--|-------------------|
| 1 | <b>Maher Mkhinini ,Intissar SAYAHI and Thameur Cherni</b> , "Contribution to the improvement of pedagogy through the use of tools." Afak For Sciences Journal (A.S.J).vol 09/ N°: 04 (2024), P 47-58. <a href="https://asjp.cerist.dz/en/article/253524">https://asjp.cerist.dz/en/article/253524</a>  | JA                |
| 2 | <b>Ayari, Asma, and Linda Ouerfelli</b> . "Generative AI in the Classroom: Balancing Innovation, Fear, and Necessity." 2025 IEEE Global Engineering Education Conference (EDUCON). IEEE, London, United Kingdom, 2025, pp. 1-6, doi: 10.1109/EDUCON62633.2025.11016392.  | CP                |
| 3 | <b>M. Hachicha, M. A. Omezine, M. K. Zghal, M. H. Riahi</b> and L. Ncib, "Recommendation Module Based on Web Scraping and LLM Models with the RAG Technique," 2024 Artificial Intelligence Revolutions (AIR), Roanne, France, 2024, pp. 68-73, doi: 10.1109/AIR63653.2024.00025.   | CP                |
| 4 | <b>M. M. Gritli, M. A. Ben Lasmer, M. H. Riahi</b> and L. Ncib, "Integrating LLMs and RAG Techniques into Mathematics Learning for Engineering Students," 2024 Artificial Intelligence Revolutions (AIR), Roanne, France, 2024, pp. 55-59, doi: 10.1109/AIR63653.2024.00021.   | CP                |
| 5 | <b>Youssef Mejri and Mohamed Hédi Riahi</b> , "Generative Artificial Intelligence for Mathematics Education in Engineering Schools: Advancing Personalized Learning Approach.", The International Conference on Artificial Intelligence and Cognitive Science for Emerging Technologies (AICSET 2025) July 14-16, Marrakech, Morocco, 2025.  | CP                |
| 6 | <b>Lassoued, D.</b> "Enhancing soft skills through storytelling: Stories on Stage in engineering education." Paper presented at the ISSHJ 2025 International Conference on "Stories and Storytelling: A World of Hi-Stories", April 24–26, 2025, Ain Draham, Jendouba.   | CP                |
| 7 | <b>Ayari, A., Chaabouni, M., &amp; Ben Ghezala, H.</b> "A Deep Learning Approach for Automatic Detection of Learner Engagement in Educational Context." pp. 372–379. The17th International Conference on Computer Supported Education (CSEDU 2025). <a href="https://doi.org/10.5220/0013283200003932">https://doi.org/10.5220/0013283200003932</a>  | CP                |
| 8 | <b>Souissi Mayssa</b> . "Harnessing Generative AI to Enhance Critical Thinking and Active Learning in a Second-Year English Language Project for Engineering Students." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer | CP                |
| 9 | <b>Amine Marrouki</b> . "Evalia: Artificial Intelligence and Human Judgment for the Evaluation of Oral Presentations." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer  | CP                |

4\* JA : Journal Article ; CP : Conference Paper ; BC : Book Chapter ; WS : Workshop

| #  | RDI publication  | Type <sup>6</sup> |
|----|--|-------------------|
| 10 | <b>Neji Wissal, Boughattas Naouel.</b> "Empowering Student Learning with Emerging AI Tools: A Project-Based Approach." A Workshop presented at AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.                                   | WS                |
| 11 | <b>Medhioub Manel.</b> "Securing Higher Education Through DevSecOps Framework." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 12 | <b>Ziadi Faten, Boughattas Naouel, Neji Wissal, Naghmouchi Malek.</b> "NextLearn: A Context-Aware Adaptive Learning Platform." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.   | CP                |
| 13 | <b>Meriem Chichti, Faten Tebourbi, Chaima Ayari.</b> "Artificial Intelligence in higher Education: A Framework for Enhancing Metacognition through Human-Machine Collaboration." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer. | CP                |
| 14 | <b>Khadija Raissi, Soumaya Argoubi, Halima Othmani, Anis Benhaj yousef.</b> "Enhancing Student-centric Learning Approaches and Exploring AI Integration." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.                        | CP                |
| 15 | <b>Belkneni Maroua, Amri Imed, Chenenaoui Hamza, Aissa Abdelmonem.</b> "Study Verse: Virtual Reality Network Lab." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.   | CP                |
| 16 | <b>Bilel Charfi.</b> "Gamification in STEM Education: Designing Adaptive Scoring Systems for Student Classification." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 17 | <b>Hiba Maalaoui.</b> "Use of a Retrieval-Augmented Generation (RAG) Chatbot for First-Year Engineering Education at ESPRIT." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | CP                |
| 18 | <b>Bouhdid Badia, Khemiri Akram.</b> "A PPBL Pedagogy for Transforming Engineering Education at ESPRIT School of Engineering." AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.   | CP                |

| #  | RDI publication  | Type <sup>6</sup> |
|----|--|-------------------|
| 19 | <b>Boudid Badia.</b> “Hands-On GitHub-Driven Active Learning Pedagogy: Transforming Engineering Education through Collaboration and Agility.” A workshop presented at AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 11-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer.  | WS                |
| 20 | <b>Kamoun, Faouzi,</b> Iqbal, Farkhund, Abidi, Heni, Ben Brik, Aymen. (2025). Evaluation of Large Language Models in Simulating Real-world Engineering Scenarios and Decision Making: A Comparative Study of ChatGPT-4o, Gemini, and Perplexity. AfricaTek 2025: The 8th EAI International Conference on Emerging Technologies for Developing Countries, Tunis, June 12-13, Tunisia. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST). Springer. | CP                |



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