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# Annual Report

## 2025-2026 Academic year




“At ESPRIT, we reaffirm our enduring commitment to research that matters: Research that advances scientific knowledge while addressing pressing societal and economic challenges. Our research and innovation agenda is deliberately oriented toward generating tangible value for society, industry, and policymakers, while contributing meaningfully to the United Nations Sustainable Development Goals (SDGs). Beyond the pursuit of scientific excellence, we seek to ensure that knowledge is translated into innovation, informed decision-making, and sustainable solutions. In this spirit, we actively embrace emerging technologies as powerful levers for innovation, resilience, and inclusive development.

We firmly believe that research and teaching are two sides of the same coin. Research enriches teaching by bringing new knowledge, critical perspectives, and real-world insights into the classroom, while teaching continuously stimulates new questions, challenges established assumptions and opens new avenues for inquiry. This dynamic interplay is central to our academic mission: to educate not only through the transmission of established knowledge, but also through the creation, critical examination, and meaningful application of new knowledge.

This RDI Catalog reflects this vision and provides an overview of the research conducted within our community, the expertise of our faculty and researchers, and the areas in which we seek to create impact. It is also an invitation to strengthen collaboration with academic institutions, industry, public organizations, and international partners and to transform research excellence into meaningful and lasting value.

At ESPRIT, we remain convinced that the ultimate strength of research lies not only in what we discover, but also in how we use knowledge to shape a more innovative, resilient, inclusive, and sustainable future.”

*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.

The 2025–2026 academic year marked an important step in this journey with the organization of two special events:

- The 7th edition of the IMAOC Summer School, held for the first time in Tunisia, at ESPRIT, from 15 to 26 June 2026. This international event focused on the application of artificial intelligence to the analysis, modelling, and forecasting of space weather. It brought together more than 20 experts and participants from 18 countries, providing a valuable forum for knowledge exchange and collaboration at the intersection of AI, space weather, and critical infrastructure resilience.
- WEITA 2026 – the 3rd Workshop on Emerging ICT Trends & Applications, held on 17–18 April 2026 under the theme “AI and the University of the Future: Shaping Sustainable Impact.” The special edition brought together our faculty to share evidence-informed practices and innovative approaches for the responsible integration of AI into teaching, assessment and research. Its program included 8 oral presentations, 17 poster presentations, 4 working groups and 6 hands-on workshops, creating opportunities for exchange, experimentation and collaboration faculty members.

This year, our faculty produced 94 research publications, reflecting the breadth and impact of our scholarly activities. Of these, 30 addressed the United Nations Sustainable Development Goals (SDGs), 55 employed AI-based methodologies, and 38 resulted from inter-institutional collaborations. Notably, 16 publications focused on pedagogical innovation, underscoring our commitment to advancing teaching, learning, and assessment practices while fostering academic excellence.

This catalog offers a snapshot of the diverse RDI activities and achievements that define ESPRIT’s innovative spirit. It also reflects our forward-looking ambition to strengthen strategic partnerships with external stakeholders. 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**



# Research Teams

| # | Name | Domain | Coordinator | Contact Email address |
|---|---|---|---|---|
| | | Information & Communications Technologies (ICT) | | |
| 1 | ESPRIT-Cloud | Cloud Computing & Security | Manel Madhioub & Soumaya Mbarek | Manel.madhioub@esprit.tn soumaya.mbarek@esprit.tn |
| 2 | Wireless Com | Wireless communications | Safa Zhioua Cherif | safa.zhiouacherif@esprit.tn |
| 3 | M2M | Ambient & embedded systems | Feten Teber | Feten.teber@esprit.tn |
| 4 | WSN-RFID | Wireless sensor networks and RFID | Abderrazak Hachani | Abderrazak.hachani@esprit.tn |
| 5 | ESPRIT-Mobile | Mobile applications | Imed Amri | Imed.amri@esprit.tn |
| 6 | DASC | Data Science & AI | Sami Sifi | Sami.sifi@esprit.tn |
| 7 | Imagein | Computer vision / image processing | Naouel Boughattas | naouel.boughattas@esprit.tn |
| 8 | I2S | Intelligent Information Systems | Syrine Karoui | Syrine.karoui@esprit.tn |
| 9 | SSD | Sustainable social development | Soumaya Argoubi | Soumaya.argoubi@esprit.tn |
| 10 | Esprit SmartNet | Smart Networks (SDN, NFV, AI) | Amel Ksentini | amel.ksentini@esprit.tn |
| 11 | CybeSec Intelligence | Cybersecurity Intelligence | Sarra Berrahal | sarra.berrahal@esprit.tn |
| | | Electromechanical & Industrial Engineering | | |
| 12 | ICAR | Robotics | Maher Mkhinni | Maher.mkhinni@esprit.tn |
| 13 | INOBI | Industrial engineering for a better life | Salah Bousbia | Salah.bousbia@esprit.tn |
| 14 | ETM | ESPRIT's Tomorrows Materials | Ameni Ellouze | Ameni.ellouze@esprit.tn |
| 15 | ISF | Integrated Smart Factory | Yosr Ghozzi | Yosr.ghozzi@esprit.tn |
| | | Civil Engineering | | |
| 16 | REEE | Renewable energy & energy efficiency | Imen Guebebia | Imen.guebebia@esprit.tn |
| 17 | SBM | Smart Building management | Asma Karaoui | Asma.karoui@esprit.tn |
| 18 | IBI | Innovative Buildings & Infrastructures | Safa Mhadhbi | safa.mhadhbi@esprit.tn |
| | | Applied Mathematics | | |
| 19 | GRAFICS | Risk management | Mohamed Anis Ben Lasmar | Mohamedanis.benlasmar@esprit.tn |
| 20 | MMSN | Mathematical modeling and numerical simulations | Mohamed Hedi Riahi | Mohamedhedi.riahi@esprit.tn |
| | | Management & Pedagogical Innovation | | |
| 21 | MAIN' Team | Management & Innovation | Inés Mhaya | Ines.mhaya@esprit.tn |
| 22 | ALEER | Engineering Education Research | Lamjed Bettaieb | Lamjed.bettaieb@esprit.tn |
| 23 | DevProfE | Faculty Professional Development | Hajer Berhouma | hajer.berhouma@Esprit.tn |
| 24 | RISE | Responsible Innovation, Sustainability & Ethics | Dhouha Milliti & Myriam Zorgui | dhouha.melliti@Esprit.tn mariem.zorgui@esprit.tn |

# Research Themes

| # | Research Team | Research Themes |
|---|---|---|
| 1 | ESPRIT-Cloud | ⇒ Infrastructure as a service<br>⇒ Virtualization technologies<br>⇒ Cloud security<br>⇒ Cloud federations<br>⇒ Learning-based Cloud |
| 2 | Wireless Com | ⇒ Future Wireless Networks<br>⇒ UAV-based Aerial Networks<br>⇒ Smart agriculture (UAVs & AI)<br>⇒ Wireless communication for Public Safety<br>⇒ E-health |
| 3 | M2M | ⇒ Healthcare<br>⇒ Smart homes<br>⇒ Smart agriculture |
| 4 | WSN-RFID | ⇒ Design of interconnected objects<br>⇒ Digital Transformation<br>⇒ Localization and tracking<br>⇒ Logistic management<br>⇒ IoT applications |
| 5 | ESPRIT-Mobile | ⇒ IoT<br>⇒ Blockchain<br>⇒ M-Health<br>⇒ Augmented Reality / AR<br>⇒ Virtual Reality / VR & Mixed Reality / MR |
| 6 | DASC | ⇒ Machine Learning & AI applications<br>⇒ Social media data analytics<br>⇒ Education 4.0<br>⇒ Risk Cartography |
| 7 | ImageIn | ⇒ Machine learning for computer vision<br>⇒ Medical imaging<br>⇒ Shape recognition<br>⇒ Image processing |
| 8 | I2S | ⇒ Intelligent Information Systems (IIS) architectures<br>⇒ IIS security<br>⇒ Decision-support systems<br>⇒ Big data & AI for IIS<br>⇒ DevOps for IIS |
| 9 | SSD | ⇒ Behavioral Analysis<br>⇒ Privacy<br>⇒ Serious Games<br>⇒ E-justice: Social development to achieve peace, human rights, and effective governance<br>⇒ Sustainability in Engineering Education |
| 10 | Esprit SmartNet | ⇒ Software-Defined Networking (SDN)<br>⇒ Network Functions Virtualization (NFV)<br>⇒ AI & Network slicing<br>⇒ Optimization of next-generation networks |
| 11 | CybeSec Intelligence | ⇒ Securing Applications and Network Infrastructures<br>⇒ Artificial Intelligence for Cybersecurity |
| 12 | EVIS | ⇒ Vehicle's mechanical structures<br>⇒ Vehicle's aerodynamics |

| # | Research Team | Research Themes |
|---|---|---|
| | | ⇒ Electric power converters<br>⇒ Battery charging and management systems |
| 13 | INOBI | ⇒ Innovative pedagogical approaches for industrial engineering education<br>⇒ Industrial engineering solutions for social innovation and better life |
| 14 | ETM | ⇒ Valorization of waste in plastic/composite materials<br>⇒ Valorization of natural fibers resulting from their use as reinforcement in composite materials<br>⇒ New ecological concretes made with carbonated aggregates |
| 15 | ISF | ⇒ Immersive environments for manufacturing innovation<br>⇒ Innovation and technology transfer engineering |
| 16 | REEE | ⇒ Energy audit<br>⇒ Energy management and optimization<br>⇒ Sustainable development & Smart cities |
| 17 | SBM | ⇒ Methods to improve occupant comfort<br>⇒ Smart building applications<br>⇒ Building Information Modelling (BIM) |
| 18 | IBI | ⇒ Technological Innovation in the Construction and Civil Engineering Sector<br>⇒ Sustainable Construction and Environmental Impact<br>⇒ Structural Monitoring and Control |
| 19 | GRAFICS | ⇒ Data Mining, Scoring and Big data tools for decision support and actuarial applications<br>⇒ Efficient algorithms for stochastic control, numerical and statistical processing<br>⇒ Sensitivity analysis, quantification of uncertainty, and uncertainty modeling<br>⇒ Rare events analysis for optimal decision making and risk management |
| 20 | MMSN | ⇒ Applications of mathematical models and simulation techniques:<br>⇒ Finance: Inverse problem of estimating volatility in the Black and Scholes model<br>⇒ Environment: Parametric estimation in hydrogeology<br>⇒ Oil and Gas: Numerical modeling of the impact of rock mechanics in oil reservoirs on flow in porous media<br>⇒ Biology: modeling electrical activities of the hearts<br>⇒ Civil engineering: Mixed 3D-1D formulation for the analysis of composite beams |
| 20 | MAIN 'Team | ⇒ Digital Marketing & Data Marketing<br>⇒ Innovation management<br>⇒ Development economics<br>⇒ Business Finance<br>⇒ Human resources<br>⇒ Entrepreneurship |
| 21 | ALEER | ⇒ Active learning in engineering education<br>⇒ Collaborative project approaches in Engineering education<br>⇒ Case studies in Engineering education & lessons-learned<br>⇒ Learning outcome assessment<br>⇒ Digital technologies in Engineering education |
| 23 | DevProfE | ⇒ Management of skills and talents.<br>⇒ Faculty professional development<br>⇒ Applications of AI in the analysis of training programs and trainers. |
| 24 | RISE | ⇒ Ethics of Artificial Intelligence and Algorithmic Systems<br>⇒ Systemic Sustainability and Socio-Technical Transitions<br>⇒ Responsible Innovation and Impactful Entrepreneurship<br>⇒ Digital Governance, Sovereignty, and Technological Rights<br>⇒ D28Ethical Engineering and Professional Responsibility |

# Major organized RDI events 2025-2026






# IMAOC 2026 Summer School




The 7th edition of the IMAOC Summer School was held for the first time in Tunisia, at ESPRIT, from June 15 to 26, 2026. As the first French-language edition, the Summer School focused on the application of artificial intelligence to the analysis, modelling, and forecasting of space weather. The international scientific event brought together more than 20 experts and participants from 18 countries, providing a platform for knowledge exchange and collaboration around emerging challenges and innovative solutions at the intersection of AI, space weather, and critical infrastructure resilience.

Building on a tradition established in Africa in 1995, this edition contributed to strengthening local scientific and technical capacities, fostering long-term international collaborations, and reinforcing Tunisia's potential position as a regional hub for research and innovation in space-related technologies.










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Mediterranean and African Summer School
on Artificial Intelligence
5th EDITION
July 6 to 9, 2026

# AI Summer School




The fifth edition of the ESPRIT MASSAI (Mediterranean and African Summer School in Artificial Intelligence) Summer School took place from July 6th to July 9th, 2026. 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.  Topics covered include:

1. Agentic AI & Orchestration
2. Data Engineering & MLOps
3. AI Security & GenAI Red Teaming
4. Beyond Tokens, World Models







# WEITA 2026 –3rd Workshop on Emerging ICT Trends & Applications

## *" AI and the University of the Future: Shaping Sustainable Impact"*




During the period 17–18 April 2026, we had the privilege of co-organizing the third Edition of the Workshop on Emerging ICT Trends & Applications (WEITA), dedicated to the theme: "AI and the University of the Future: Shaping Sustainable Impact."





Over two days, ESPRIT faculty came together around a shared ambition*: to explore the role of artificial intelligence in shaping the University of the Future.* WEITA 2026 provided a dedicated platform for research, collaboration, and experimentation on the transformations driven by AI in higher education.

The event brought together the ESPRIT academic community through 8 research presentations, 6 practical workshops, 4 working groups, and 17 poster sessions, showcasing the shared practices and the research contributions of our faculty in the domain of AI-augmented pedagogical innovation.

Beyond the diversity of contributions, WEITA 2026 fostered a collective reflection on the responsible, ethical, and impact-oriented integration of AI in higher education, moving from individual initiatives towards a shared institutional culture.

Through this dynamic, we aim to reaffirm our commitment to actively contributing to the design of the university of tomorrow, placing AI-driven research and innovation at the heart of our pedagogical transformation.










# “Cybercrime: Legal, Institutional, and Strategic Challenges in the Age of Digital Threats” Forum




On April 21st, we had the privilege of organizing a forum dedicated to cybersecurity governance. The event provided a comprehensive overview of cybercrime, examining its technological, regulatory, economic, geopolitical, and societal dimensions. Moving beyond approaches confined to technical, legal, or media perspectives, the event addressed the multifaceted nature of cybercrime and its implications for institutions and society.

Panels, conferences, and practical workshops explored key issues, including cyber risks, child protection, the security of critical systems, artificial intelligence, deepfakes, regulatory compliance, and cybersecurity governance.

The program featured four sessions involving 13 speakers:

1. Hackers and the New Generation: Aircraft Cybersecurity and Cyber Risk Insurance
2. The Role of Artificial Intelligence in the Evolution of Cybercrime
3. Cybercrime and Organized Crime
4. Cybercrime and Technological Change and Vulnerabilities: Exploitation, Countermeasures, and Cyber Threat Simulation

The program also featured two practical workshops:

1. From Public Information to Cyber Risk: Exploring Open-Source Intelligence (OSINT)
2. Digital Signature Services and Digital Transformation






# Workshop on Actuarial Science and AI in the Context of the Ecological Transition

On 29 April 2025, ESPRIT, in partnership with the Institute of Risk and Insurance (IRA) at Le Mans Université, France, organized a dedicated workshop on "***Actuarial Science and AI in the Context of the Ecological Transition***." The event brought together academics and practitioners to examine how artificial intelligence is transforming actuarial practices and addressing emerging risks associated with climate and ecological transition. Through expert presentations, knowledge-sharing sessions, and discussions on emerging applications of AI in risk and insurance, the workshop provided a platform for research exchange and interdisciplinary dialogue. A key objective was to strengthen the capacity of researchers, faculty, and professionals to understand and leverage AI-driven approaches in actuarial science, while fostering collaboration between academic institutions and contributing to the development of research capabilities in this rapidly evolving field.






# Faculty - Ph.D Candidates and Graduates

During the 2025-2026 academic year, 4 ESPRIT instructors successfully completed their PhD degree:

| Faculty name | Thesis defense date | Thesis title |
|---|---|---|
| Wiem Baazouzi | Nov-2025 | Contributions à l'Annotation Sémantique des Données Tabulaires et ses Applications |
| Khouloud Kordoghli | Feb-2025 | Identification of the Role of the Rapid Conduction System in the Maintenance of Cardiac Arrhythmias: Mathematical Modelling, Theoretical and Numerical Analysis |
| Oumayma Jouini | Apr-2025 | Artificial intelligence and blockchain solutions for sustainable agriculture |
| YASSINE BOUSSAA | Nov- 2025 | Dynamic Stability of Power Systems with Large-Scale Integration of Renewable Energy Sources: A Koopman Operator–Based Analysis |

In addition, during the same period, 5 ESPRIT instructors have been pursuing their PhD studies at research laboratories affiliated with public universities:

| Faculty name | Thesis title / Research Lab/Institution |
|---|---|
| Esleme Hadj Sassi | Le délit de contrefaçon en droit international privé, Faculté des sciences juridiques politiques et sociales de Tunis |
| 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) |
| Hamdi nawel | Qos management approach for smart contract on blockchain ; MIRACL Research Laboratory, Sfax |
| Mhadhbi Safa | Coupled Flow–Geomechanics and Risk Governance for Integrity Preserving $CO_2$ Sequestration in Carbonate Settings: The Hasdrubal Case, Gulf of Gabes, Ingénierie Géotechnique (LR-ING-ENIT) – ENIT |

# RDI publications highlights

# 2025-2026 Academic Year (AY)

**94 publications**

**62 peer-reviewed conference papers**

- 35 ICT
- 14 Pedagogical innovation
- 6 Management
- 5 Civil Engineering
- 1 Applied Mathematics
- 1 Electromechanical Engineering

**27 peer-reviewed journal articles**

- 10 ICT
- 11 Applied Mathematics
- 4 Management
- 1 Civil Engineering
- 1 Electromechanical Engineering

**2 book chapters**

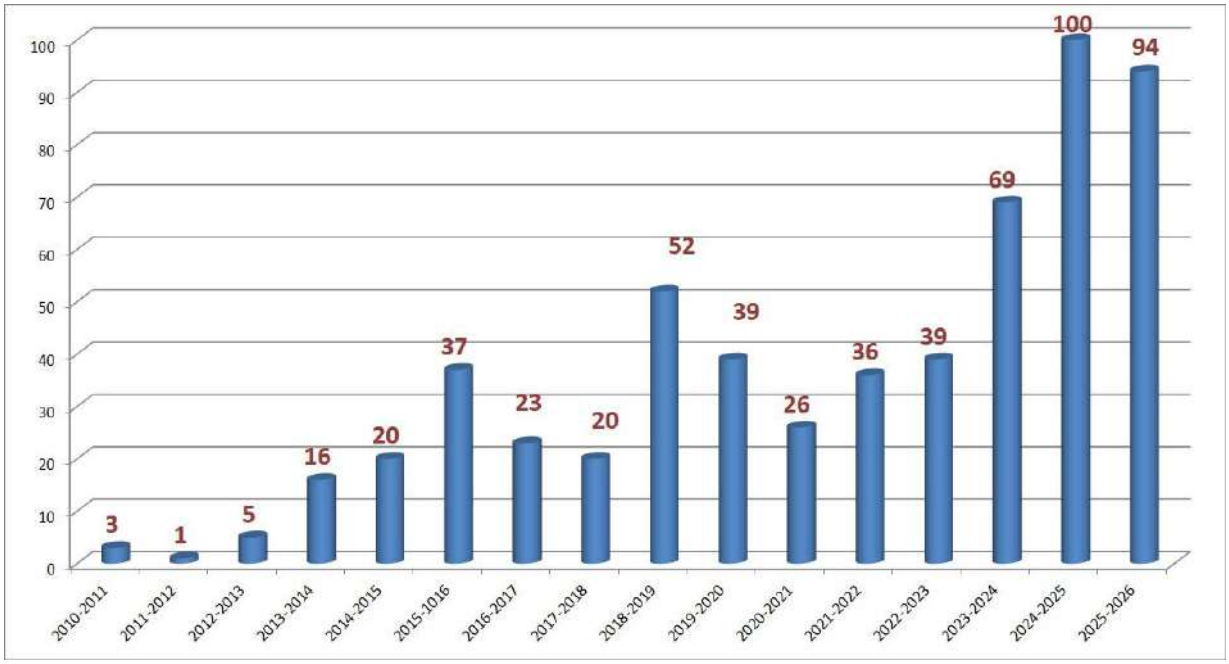
- 2 Pedagogical innovation

**2 advance Online publications**

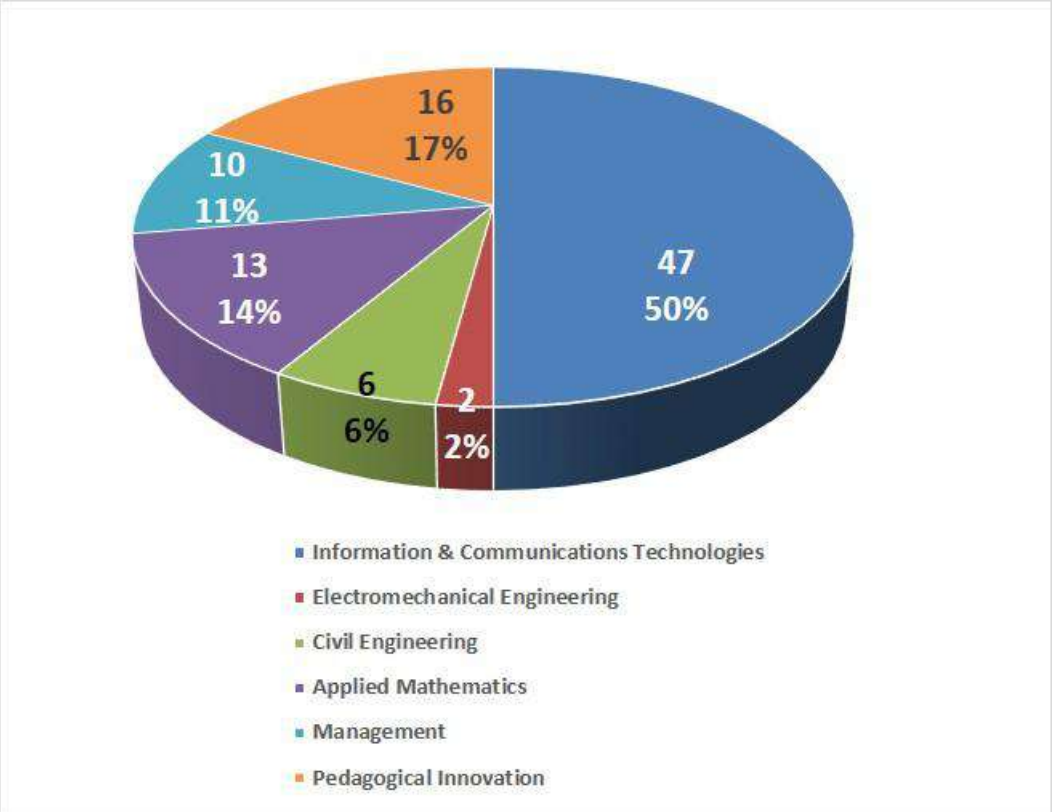
- 2 ICT

**1 preprint**

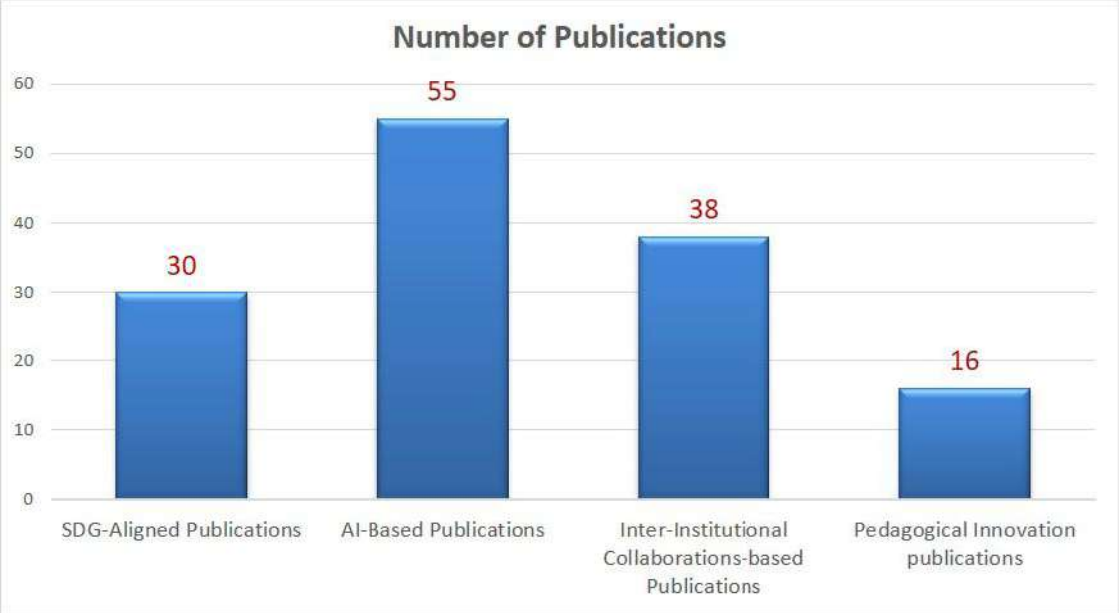
- 1 Applied Mathematics




**Evolution of the number of research publications: 2010-2026**




**Repartition of RDI publications by field**




**Distribution of Research Publications Across Key Strategic Dimensions (N = 94)**

# ESE faculty research contributions at WEITA 2026

## 1. Oral Presentations

- **Mourad Aouini**, A Faculty-Centered AI Platform for Personalized Learning and Scalable Project Assessment in Higher Education
- **Sondes Hattab & Faten Ziadi,** CodeLab: A Multi-Agent Framework to Support Reasoning in Programming PBL
- **Faouzi Kamoun**, Heni Abidi, & Aymen Ben Brik Designing AI-Augmented Assessment Ecosystems: Evidence from Case Study Co-Creation and Exam Co-Design
- **Yosra Jmal, Abderrazek Hachani & Maha Mallek**, Explainable AI for Early Student Performance Prediction: A Comparative Study Using OULAD and LMS Data
- Meriem Chichti, **Feten Tbourbi & Chaima Ayari**, Artificial Intelligence in higher Education: A Framework for Enhancing Metacognition through Human–Machine Collaboration

## 2. Poster Presentations

- **Wiem Trabelsi and Sirine Naifar**. Data Science & MLOps: Towards a Hybrid Profile for the Engineer of Tomorrow
- **Sondes Hattab and Faten Ziadi**. Towards Trustworthy AI-Based Assessment: A Multi-Agent Blockchain Architecture
- **Rim Somai and Amal Ben Chikh**. A Structured Pedagogical Prompt Engineering Workflow
- **Anis Bel Hadj Hassin**. The Co-Teacher Paradox: Reframing AI as an Inquiry Catalyst in Higher Education
- **Rym Alouane, and Abdessalem Ghodbani**. AI-Driven Digital Workflow for Student Project Orchestration and Evaluation
- **Nour Agrebi**. Reimagining Presentation: Integrating PechaKucha and AI Chatbots for Enhanced Communication
- **Hamdi Braiek**. AI as a Powerful Tool for Exposing Engineering Students to Research: The Project-to-Publication Framework
- **Sarra Abidi**. AI-Driven Adaptive Workflows for PI-DEV Support
- **Ibrahim Benabdallah and Abderrazek Hachani**. TinyML Driven Adaptive PID Temperature Control with Dual-Sensor Fusion

- **Myriam Zorgui and Dhouha Melliti**. Navigating the AI Frontier: A Responsible AI Framework for Sustainability Modules in Engineering Education
- **Safa Cherif and Rahma Bouraoui**. AI-Driven Telecom Project: A Trustworthy Pedagogical Framework Integrating CRISP-DM and MLOps
- **Sana Ben Fadhel, Anis Zouaoui, Naadine Maazouni, Rima Ezzar; Salma Ben Miled; Maram Oueslati, Youssef Takali, and Aicha Ben Romdhan**. EspriHub: A Git-based Academic Platform for Project and Evaluation Management

## 3. Working Group (WG) Sessions (Core WG team)

- **Safa Mhadhbi & Manel Madhioub**. AI as a Powerful Tool for Exposing Engineering Students to Research
- **Myriam Zorgui, Dhouha Melliti, & Esleme Hadj Sassi**. Building Strategic and Socially Responsible University AI Governance

## 4. Animated Practical Workshops

- **Amel Oueslati, and Mohamed Bessem Abdou**. "From AI Fear to AI Fluency."
- **Hiba Maalaoui, Sinda Belhaj Daoud, Mohamed Hedi Riahi, and Mohamed Anis Ben Lasmar**. "From Adaptive Learning Needs to AI-Powered Educational Assistants."
- **Hajer Berhouma, Bilel Charfi, Maroua Hasnaoui, Yosr Ghozzi, Ghada Benkhalifa, Fatma Louati, Feten Tebourbi, Rim Somai, and Amal Benchikh**. "Empowering Higher Education with AI: AI-Driven Course Design & Active Learning.""
- **Naouel Boughattas**. "Advanced Prompt Engineering for Education: Designing, Customizing, and Automating Educational Resources with AI."
- **Myriam Zorgui, and Dhouha Melliti**. "AI for the Donut Economy: Reimagining the University as an Agent of Lasting Impact."
- **Esleme Hadj Sassi**. "AI in Academia: Ethics, Law and Responsible Use."
- Meriem Chichti, **Faten Tbourbi**, and **Linda Ourefelli**. "Reinventing Assessment in the AI Era: UX-Driven Rubric Design for Project-Based Learning."

# Information & Communications Technologies



# ICT RDI Publications (2025-2026 AY)

| # | | Type[1] |
|---|---|---|
| 1 | Aissa, M**., Bouhdid, B**., Bahri, M. A., Zakarya, M., & Mayyahi, K. A. (2025). Adaptive Clustering in FANETs: A Fuzzy Logic Approach for Energy Efficiency and Network Stability: M. Aissa et al. *Telecommunication Systems*, *88*(4), 125. | **JA** |
| 2 | Aissa, M., **Bouhdid, B**., Mnaouer, A. B., Ouni, B., Abdelhafidh, M., Al-Bahri, M., & ALmayah, K. (2026). FQL: a fuzzy Q-learning framework for reinforcement-driven clustering in flying Ad Hoc networks. *Cluster Computing*, *29*(8), 512. | **JA** |
| 3 | **Baazouzi, W.,** Kachroudi, M., & Faiz, S. (2026). An interactive tool implementing a matching approach to confer semantics over tabular data based on knowledge graphs. Progress in Artificial Intelligence, 1-21. | **JA** |
| 4 | Bartłomiejczyk, M., El Fray, I., & **Kamoun, F**. (2025). Enhancing two-factor authentication security by analyzing and detecting SMS OTP-interception techniques in Android malware. *IEEE Access*, *13*, 185926-185942. https://doi.org/10.1109/access.2025.3626270 | **JA** |
| 5 | **Douss, R.,** & Farah, I. R. (2026). Multi-temporal Sentinel-2 images and LiDAR data fusion in dominant tree species classification. International Journal of Data Science and Analytics, 22(1), 241. | **JA** |
| 6 | Katbi, A. M., **Elwerghemmi, R.,** & Ksantini, R. (2026). An improved interpolated deep SVDD autoencoder with implicit rack minimization. *Multimedia Tools and Applications*, *85*(6), 524. | **JA** |
| 7 | **Mersani, A.,** Mekki, K., & Necibi, O. (2026). Parametric simulation dataset of a 2.4 GHz patch antenna with slot for AI-based S11 prediction. *Data in Brief, 64*, 112398. https://doi.org/10.1016/j.dib.2025.112398 | **JA** |
| 8 | **Mersani, A**., Mekki, K., & Ncibi, O. (2025). AI-powered S11 prediction for a compact 2.4 GHz patch antenna. Indian Journal of Science and Technology, 18(33), 2715-2728. | **JA** |
| 9 | **Mnassri, A., Mansouri, N.,** Nasri, S., Lashab, A., Vasquez, J. C., & Cherif, A. (2026). Embedded deep learning for short-term PV forecasting under export constraints. *Eng*, *7*(7), 313. https://doi.org/10.3390/eng7070313 | **JA** |
| 10 | Krishna, B.R. **Ammar, A**., & Kamsali Nagaraja, K. (2026). Low-latitude D-region ionospheric response to C- and M-class solar flares revealed by VLF observations and LWPC modeling at Bengaluru, India, Advances in Space Research, 78(5), 2026, Pages 5094-5110, https://doi.org/10.1016/j.asr.2026.06.118. | **JA** |

**1*** JA: Journal Article – CP: Conference Paper - BC : Book Chapter – WS: Workshop – AOP: Advance online publication

| # | | Type[1] |
|---|---|---|
| 11 | **Borghol, R., Zoglami, R., & Sarraj, H**. (2026, April 28). Intelligent and secure automation of CI/CD pipelines for cloud infrastructures. Advance online publication. Scientific Reports. https://doi.org/10.21203/rs.3.rs-9260975/v1 | **AOP** |
| 12 | **Bouhdid, B., Mnaouer,** A. B., Sen, A. A. A., & Ouni, B. (2026, June 29). DARA: Distributed agent reinforcement-based adaptive routing in flying ad-hoc network environments. Advance online publication. https://doi.org/10.21203/rs.3.rs-9103864/v1 | **AOP** |
| 13 | **Abidi, S., Chebbi, I., Hmida, E. B**., Ayed, L. B., & Guegan, C. G. (2026, April). From Natural Language to Executable Healthcare Workflows: HELIOS Ontology-Guided AI Framework. In *International Conference on Advanced Information Networking and Applications* (pp. 79-92). Cham: Springer Nature Switzerland | **CP** |
| 14 | **Baazouzi, W**. (2025). Enhancing Multi-answer Query Performance with Knowledge Graphs. In *International Conference on Emerging Technologies for Developing Countries* (pp. 140-150). Cham: Springer Nature Switzerland. | **CP** |
| 15 | **Baazouzi, W.,** & Kachroudi, M. (2025). Improving biomedical fields with knowledge graphs: domains, tasks, and applications. 29th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2025). *Procedia Computer Science*, *270*, 1169-1184. | **CP** |
| 16 | **Baazouzi, W.,** & Kachroudi, M. (2026, April). Optimising Multi-Answer Queries Using Knowledge Graphs. In *International Conference on Advanced Information Networking and Applications* (pp. 200-213). Cham: Springer Nature Switzerland. | **CP** |
| 17 | **Belkneni, M., Guedria, K., Chamakhi, S., Hjiri, W., & Ben Slimen, N**. (2025). Development of an artificial intelligence-based companion clone. In *2025 International Wireless Communications and Mobile Computing (IWCMC)* (pp. 435–440). IEEE. https://doi.org/10.1109/IWCMC65282.2025.11059604. | **CP** |
| 18 | **Ben Amor, A., Mosbah, S., & Hlel, J.** (2026). Palm trees meets deep learning: A real-time detection of boufaroua with yolov8n and embedded optics. In *Proceedings of the 21st International Conference on Computer Vision Theory and Applications* (pp. 351-356). SCITEPRESS - Science and Technology Publications. https://doi.org/10.5220/0014339700004084 | **CP** |
| 19 | **Bouhdid, B**., **Mnaouer, A. B**., & Ahmed bi Sen, A. (2026, June 1). Empowering tiny-agents: Distributed adaptive routing for sustainable flying ad hoc networks. In *2026 International Wireless Communications and Mobile Computing (IWCMC)* (pp. 1713-1718). IEEE. https://doi.org/10.1109/iwcmc69287.2026.11580076 | **CP** |
| 20 | **Chagtmi, N., Added, M. E., Teber, F., & Boulejfene, N.** (2026, June 3). Artificial neural network based calibration method for a six-port receiver. In *2026 8th Global Power, Energy and Communication Conference (GPECOM)* (pp. 1186-1189). IEEE. https://doi.org/10.1109/gpecom70462.2026.11578693 | **CP** |
| 21 | **Douiri, M**., Mansour, I. B., & Tagina, M. (2025, November 3). Optimizing container-based microservice scheduling with parallel particle swarm based on diversity indicators. In *2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 81-88). IEEE. https://doi.org/10.1109/ictai66417.2025.00019 | **CP** |

| # | | Type[1] |
|---|---|---|
| 22 | **Douss, R**., & Farah, I. (2026). Hybrid learning framework for multi-source forest monitoring. In *Proceedings of the 18th International Conference on Agents and Artificial Intelligence* (pp. 2866-2874). SCITEPRESS - Science and Technology Publications. https://doi.org/10.5220/0014333200004052 | **CP** |
| 23 | **Elwerghemmi, R., Fathallah, A., Aouini, I**., Ksantini, R., & Bouallegue, R. (2026, March 30). FISVDD-QoE: A rapid incremental SVDD approach for detecting anomalies in video quality-of-experience. In *2026 IEEE 23rd International Multi-Conference on Systems, Signals & Devices (SSD)* (pp. 900-905). IEEE. https://doi.org/10.1109/ssd69655.2026.11559044 | **CP** |
| 24 | **Fayechi, S., & Hattab, S.** (2026). GluMate: Data-Driven vs AI-Driven Microservices for Glycemic mHealth," in Proc. 13th EAI International Conference on Wireless Mobile Communication and Healthcare (EAI MobiHealth, 2026). | **CP** |
| 25 | **Fazzeni, O., Lachheb, S., Lagha, M. I., & Riahi, M. H**. (2025). *An intelligent RAG-based system for personalized musculoskeletal injury rehabilitation and decision support*. International Conference on Artificial Intelligence and Cognitive Science for Emerging Technologies (AICSET 2025), Marrakech, Morocco. | **CP** |
| 26 | **Fourati, H**., & Saidane, L. A. (2025). Artificial intelligence use in sign recognition: A dataset in Tunisian Sign Language. In *2025 International Wireless Communications and Mobile Computing (IWCMC)* (pp. 618–623). IEEE. https://doi.org/10.1109/IWCMC65282.2025.11059445 | **CP** |
| 27 | **Guettat, B., Farhat, R., Karoui, S., & el Fekih, O. I.** (2025, December 7). Generative AI supported personal life learning environment. In *2025 10th International Conference on ICT & Accessibility (ICTA) co-located with 2025 2nd International Conference and Forum on Assistive Technologies for Special Needs (ATSN)* (pp. 1-6). IEEE. https://doi.org/10.1109/icta-atsn68371.2025.11398270 | **CP** |
| 28 | **Hanfi, N., Rachdi, S., & Riahi, M. H**. (2026, May). Empowering Inclusive Digital Transformation in Industry 4.0: A Multimodal RAG-Based Chatbot System for Hybrid Workforce Integration. In *International Conference on Logistics Operations Management* (pp. 26-36). Cham: Springer Nature Switzerland. | **CP** |
| 29 | **Hattab, S. & Fayechi, S.** (2026). GLUMATE-SAFE: Towards a Safety-aware LLM Mobile Assistant for Diabetes Management, Proceedings of the IEEE International Conference on Artificial Intelligence for a Digital and Sustainable Transition (IEEE AIDIST2026). | **CP** |
| 30 | **Hlel, J., Mosbah, S., Allani, M. H., Boujmil, A., Traki, R. B., Zahrouni, M., Mokhtar, N., & Riahi,** O. (2025, October 29). Predictive analytics for next-generation dialysis. In *2025 International Conference on INnovations in Intelligent SysTems and Applications (INISTA)* (pp. 1-6). IEEE. https://doi.org/10.1109/inista68122.2025.11249517 | **CP** |
| 31 | **Hmayda, M., Khemiri, A., Jaouedi, N., & Zaied, M**. (2025, November). Arabic text detection and classification in news video based on vision transformer. In *2025 IEEE/WIC International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT)* (pp. 559-562). IEEE. https://doi.org/10.1109/wi-iat67162.2025.00082 | **CP** |
| 32 | **Kammoun, M., Ismail, S., & Riahi, M. H**. (2026, July). AI-driven vision system for automated grease inspection in automotive haptic interface manufacturing. In *2026 6th* | **CP** |

| # | | Type[1] |
|---|---|---|
| | *International Conference on Electrical, Computer and Energy Technologies (ICECET)* (pp. 1-7). IEEE. https://doi.org/10.1109/icecet65726.2026.11632853 | |
| 33 | **Khémiri, A., & Hmayda, M.** (2026, April). Arabic Text Detection and Recognition in Video Content Using Hybrid TransUNet (ViT+ U-Net). In *International Conference on Advanced Information Networking and Applications* (pp. 207-215). Cham: Springer Nature Switzerland. | **CP** |
| 34 | **Lachheb, S., Lagha, M. I., & Riahi, M. H.** (2025, November 20). Development and evaluation of a specialized retrieval-augmented generation system for cosmetic product safety assessment in xeroderma pigmentosum patients. In *2025 IEEE International Conference on Advances in Data-Driven Analytics And Intelligent Systems (ADACIS)* (pp. 1-6). IEEE. https://doi.org/10.1109/adacis65663.2025.11436247 | **CP** |
| 35 | **Lachheb, S., Lagha, M. I., & Riahi, M. H**. (2026, May). Optimizing Airport Security Operations Through AI-Driven Face Recognition: An INTERPOL-Integrated System for Passenger Flow Management. In *International Conference on Logistics Operations Management* (pp. 121-130). Cham: Springer Nature Switzerland. | **CP** |
| 36 | **Lamine, A., Mejri, A., & Charfi, B**. (2026, May). Quantum Machine Learning: A Comparative Review of Algorithms and Applications. In *International Conference on Breakthroughs in Artificial Intelligence* (pp. 134-144). Cham: Springer Nature Switzerland. | **CP** |
| 37 | **Maalaoui, H., & Fehmi, F**. (2025, November 20). Generative AI for musculoskeletal medicine: A multimodal RAG framework for knowledge retrieval and reasoning. In *2025 IEEE International Conference on Advances in Data-Driven Analytics And Intelligent Systems (ADACIS)* (pp. 1-6). IEEE. https://doi.org/10.1109/adacis65663.2025.11436793 | **CP** |
| 38 | **Mejri, A.,** Guesmi, L., & **Aissaoui, S**. (2025, November 24). Enhancing mobile network security through edge-aware computational intelligence: A RAG-SLM based chatbot framework. In *2025 IEEE 4th International Conference on Signal, Control and Communication (SCC)* (pp. 1-6). IEEE. https://doi.org/10.1109/scc66964.2025.11424768 | **CP** |
| 39 | **Mersani, A., Aouini, I**., Mekki, K., & Necibi, O. (2026, March 30). AI-powered antenna design for next-generation wireless IOT systems. In *2026 IEEE 23rd International Multi-Conference on Systems, Signals & Devices (SSD)* (pp. 1238-1243). IEEE. https://doi.org/10.1109/ssd69655.2026.11559049 | **CP** |
| 40 | **Mili, N., Abidi, S.,** & Ben Ayed, L. (2026). An AI-based adaptive workflow model for early detection of alzheimer's disease. In *Proceedings of the 21st International Conference on Evaluation of Novel Approaches to Software Engineering* (pp. 352-359). SCITEPRESS - Science and Technology Publications. https://doi.org/10.5220/0014799500004015 | **CP** |
| 41 | Nasri, S., **Mansouri, N., Mnassri**, A., & Cherif, A. (2025). V2G-enabled smart energy management for sustainable home electrification. In *2025 7th Global Power, Energy and Communication Conference (GPECOM)* (pp. 355–360). IEEE. https://doi.org/10.1109/GPECOM65896.2025.11061960 | **CP** |

| # | | Type[1] |
|---|---|---|
| 42 | Nasri, S., **Mnassri, A., Mansouri, N.,** & Cherif, A. (2026, June). A Driving-Behavior-Centered Framework for EV Battery Aging, EOF Estimation, and Supervisory Low-Carbon Decision Support. In 2026 8th Global Power, Energy and Communication Conference (GPECOM) (pp. 83-88). IEEE. | **CP** |
| 43 | **Mansouri, N., Mnassri, A., Nasri, S., Bouchoucha, C., & Cherif, A.** (2026, June). Hybrid AI-based Forecasting and Optimization of Power Sector Carbon Emissions: Case of Tunisia. In *2026 8th Global Power, Energy and Communication Conference (GPECOM)* (pp. 619-624). IEEE. | **CP** |
| 44 | **Mansouri, N., Nasri, S., Cherif, A., & Mnassri, A.** (2025). Optimized intelligent energy management for isolated smart homes with solar, hydrogen, and V2H integration. In *2025 7th Global Power, Energy and Communication Conference (GPECOM)* (pp. 349–354). IEEE. https://doi.org/10.1109/GPECOM65896.2025.11061941 | **CP** |
| 45 | Seghid, N. H., Iqbal, F., **Kamoun, F**., & Al Breiki, H. (2025, November). Digital Forensic Investigation of Social Robots: Zenbo, Zenbo Jr., and Misty II as Case Studies. In *International Conference on Digital Forensics and Cyber Crime* (pp. 202-224). Cham: Springer Nature Switzerland. | **CP** |
| 46 | **Wali, R**. (2026, March 30). Tunable ku-band phased sub-array antennas for electronic beam steering. In *2026 IEEE 23rd International Multi-Conference on Systems, Signals & Devices (SSD)* (pp. 692-697). IEEE. https://doi.org/10.1109/ssd69655.2026.11558911 | **CP** |
| 47 | **Zghal, M. K.**, Ncib, L., **Riahi, M. H., Lagha, M. I., & Lachheb, S**. (2025, November 20). Multimodal RAG system for intelligent vehicle recommendation: Integrating video analysis with real-time market intelligence. In *2025 IEEE International Conference on Advances in Data-Driven Analytics And Intelligent Systems (ADACIS)* (pp. 1-5). IEEE. https://doi.org/10.1109/adacis65663.2025.11437151 | **CP** |

# Electromechanical Engineering



# Electromechanical Engineering

# RDI Publications (2025-2026 AY)

| # | RDI publication | Type[2] |
|---|---|---|
| 1 | **Touati, N**., Saidi, I., & Telmoudi, A. J. (2026). Robust hybrid internal model control based Smith predictor for MIMO systems with multiple time delays. *Scientific Reports*. https://doi.org/10.1038/s41598-026-66939-7 | **JA** |
| 2 | **Lasmar, S.,** Gharbi, M., & Bouchriha, H. (2025, December). Optimizing the Location-Allocation of Autodialysis Centers under Demand Uncertainty: A Chance-Constrained Programming Approach. In *2025 IEEE International Conference on Advanced Healthcare Systems (ICAHS)* (pp. 1-5). IEEE. | **CP** |

2* JA : Journal Article ; CP : Conference Paper

# Civil Engineering

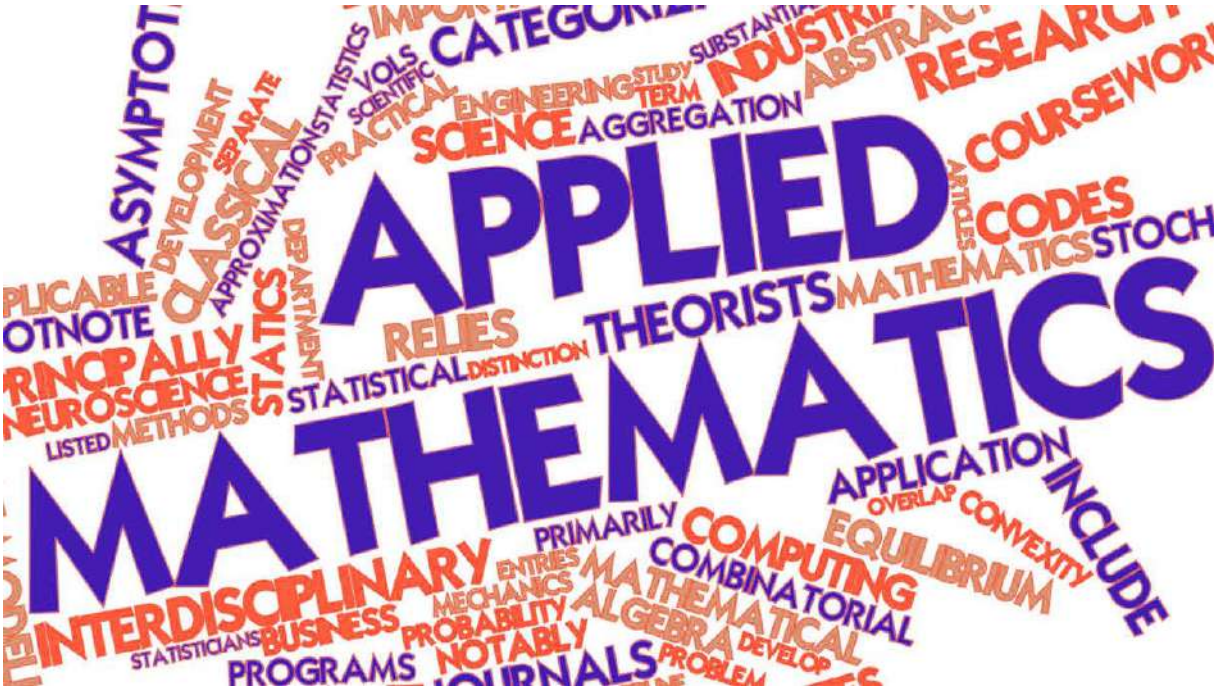


# Civil Engineering RDI Publications (2025-2026 AY)

| # | RDI publication | Type[3] |
|---|---|---|
| 1 | **Allani, A**., & Bel Hadj Ali, N. (2025). Investigating criteria for the optimization of single and multiple tuned mass dampers. *Proceedings of the Institution of Civil Engineers – Structures and Buildings, 178*(1), 105–119. https://doi.org/10.1680/jstbu.24.00025 | **JA** |
| 2 | Aubin, G., **Kallel, T., Mhadhbi, S. & Beji, A**. (2025). Valorisation des déchets de démolition et de bandes d'emballage dans la fabrication de pavés écologiques, Proceedings of Conférence Internationale des Matériaux Avancés (CIMA – 2025). | **CP** |
| 3 | **Beji, A., & Lassoued, D**. (2026, May). Benchmarking Deep Learning Models for Automated Structural Defect Detection. In *International Conference on Breakthroughs in Artificial Intelligence* (pp. 178-189). Cham: Springer Nature Switzerland | **CP** |
| 4 | Ben Abdallah, K., **Mhadhbi, S.,** E. Hamdi. (2026). Risk-Based Geo-mechanical Operating Envelope for CO2 Storage in the El Garia Formation Using a Verified Multi-Fidelity Simulation-Surrogate Workflow, In Proceedings of the Third International Conference on Advances in Rock Mechanics (Tunirocks 2026). | **CP** |
| 5 | Kassebi, N., **Mhadhbi, S.,** Ben Abdallah, K., Hamdi, E. (2026). Integrated Petrophysical, Acoustic, Electrical and Magnetic Fabric Analysis of the El Gueria Carbonate Reservoir (Ypresian, Tunisia), In Proceedings of the Third International Conference on Advances in Rock Mechanics (Tunirocks 2026). | **CP** |
| 6 | **Mhadhbi, S., & Kallel, T**. (2025) Amélioration des performances des blocs de terre comprimée par l'intégration de déchets, Proceedings of the Conférence Internationale des Matériaux Avancés (CIMA 2025). | **CP** |

2* JA : Journal Article ; CP : Conference Paper

# Applied Mathematics



# Applied Mathematics RDI Publications (2025-2026 AY)

| # | RDI publication | Type[4] |
|---|---|---|
| 1 | Assidi, S., **Ben Naouara, N. J**., & Wong, W. K. (2025). Optimal stopping time strategy for paying tax. Advances in Decision Sciences, 29(1), 10-47654. | JA |
| 2 | Bendahou, I., **Khemiri, Z**., & Mahmoudi, F. (2025). Nonlocal Hénon type problem with nonlinearities involving slightly subcritical growth. *Journal of Differential Equations, 414*. https://doi.org/10.1016/j.jde.2024.09.016 | JA |
| 3 | **Braiek, H**. (2026). A fixed-point iteration for nonlinear PDE involving variable exponent function. *Advanced Studies: Euro-Tbilisi Mathematical Journal*, *19*(2), 123-140. https://doi.org/10.32513/asetmj/193220082619209 | JA |
| 4 | **Braiek, H**. (2026). A fractional-order total variation regularization for speckle noise removal and its numerical algorithm. *Journal of Mathematical Sciences*. https://doi.org/10.1007/s10958-026-08611-z | JA |
| 5 | **Braiek, H**. (2026). A new weighted Caputo fractional-order total variation for Cauchy noise removal with Bayesian optimization. *The Visual Computer*, *42*(9), 364. | JA |
| 6 | **Braiek, H**. (2026). Variational Physics-Informed Neural Networks for the p (x)-Laplacian Problem. *Bol. Soc. Parana. Mat.(3)*, *44* | JA |
| 7 | **Hassin, A. B. H., & Omri, E.** (2026). Multi-label seabed image classification: A comparative study of deep learning and machine learning models. *Journal of King Abdulaziz University: Marine Science*, *36*(1), 26-32. https://doi.org/10.64064/1658-4325.1025 | JA |
| 8 | **Ouni, M., & Bel Hadj Hassin, A**. (2026). Reconstruction of missing boundary data for nonlinear parabolic systems using a control-type approach. *Numerical Algorithms*, 1-28. | JA |
| 9 | **Bel Hadj Hassin, A**. (2026). An Explicit A Posteriori Error Estimate-Based Iterative Method for Parabolic Cauchy Problems. Boletim da Sociedade Paranaense de Matemática, 44(13), 1–9 (2026). doi:10.5269/bspm.80892 | JA |
| 10 | **Bel Hadj Hassin, A.** (2026).A Controllability-Based Regularization for the Ill-Posed Backward Advection–Diffusion Equation. Palestine Journal of Mathematics, 15 (Special Issue IV), 103–113 (2026). | JA |
| 11 | **Soltani, F., & Riahi, M. H**. (2026). Quantitative uncertainty principles associated with the Sturm–Liouville wavelet transform. *Armenian Journal of Mathematics, 18*(5), 1–20. https://doi.org/10.52737/18291163-2026.18.05-1-20 | JA |

4* JA : Journal Article ; CP : Conference Paper ; PP: Preprint article

| # | RDI publication | Type[4] |
|---|---|---|
| 12 | **Hedhli, A., Riahi, M. H., & Ben Lasmer, M. A.** (2025, November 20). Hedging behaviour of industrial operators: Power market analysis and impact on european carbon markets. In *2025 IEEE International Conference on Advances in Data-Driven Analytics And Intelligent Systems (ADACIS)* (pp. 1-6). IEEE. https://doi.org/10.1109/adacis65663.2025.11436205 | **CP** |
| 13 | **Zeraï. M**. (June , 2026) Activation Functions as Exponential Maps , June 2016, https://hal.science/hal-05658202/document | **PP** |

# Management



# Management RDI publication (2025-2026 AY)

| # | RDI publication | Type[5] |
|---|---|---|
| 1 | **Bani Hela**. (2025). Green innovation in global south countries: An empirical analysis using green patents. Les Cahiers du CEDIMES2024, Volume 19, Hors-série n° 2024/HS3,XXXè Colloque Fédérateur de l'Institut CEDIME. | **JA** |
| 2 | **Ben Cheikh, A**., & Zarrad, H. (2025). Investigating tourism chatbot adoption: The moderating role of privacy concerns. *Journal of Hospitality and Tourism Insights*, *9*(1), 298-318. https://doi.org/10.1108/jhti-10-2024-1161 | **JA** |
| 3 | Zarrad, H., ***Ben Cheikh, A***., & Ben Abich, M. (2026). Examination of factors influencing consumers' water conservation behavior: The moderating role of information publicity. *International Journal of Marketing Studies, 18*(1), 75–?. https://doi.org/10.5539/ijms.v18n1p75 | **JA** |
| 4 | **Abassi, B**., & El Elj, M (2025). R&D Expenditure And Growth Dynamics In A Lower-Middle-Income African Economy: Evidence From Tunisia. Journal of Smart Economic Growth, 10(2), 151-170. | **JA** |
| 4 | **Melliti, D., & Zorgui, M.** (2026). Integrating Engineering Education, Artificial Intelligence, and Sustainable Technologies for Enhanced Water Management and Resource Adaptation: Lessons from Developed and Developing Contexts. In Sustainable Water Management and Resource Adaptation (SWMRA 2026) Conference, June 17-18, Rome, Italy | **CP** |
| 5 | **Melliti, D., & Dchicha, M**. (2026). The Role of Green Innovation in Promoting Business Competitiveness in Emerging Countries: An Empirical Comparative Study. In Congrès International sur l'Équité, la Diversité et l'Inclusion (ÉDI) May 29–30, 2026 | **CP** |
| 6 | **Melliti, D., & Zorgui, M**. (2026). Transforming Education for Resilience and Equity through Innovation and Institutional Leadership: The Case of ESPRIT in Tunisia. In 3rd UNITAR International Research Conference (3UIRC): Bridging Knowledge and Action to Deliver the SDGs. December 3–4, 2025 at the UN House in Brussels, Belgium | **CP** |
| 7 | Raouefi, M., Zarrad, H., & **Ben Cheikh, A**. (2025). *Prédire l'intention d'achat des produits équitables : Analyse des facteurs individuels et sociaux*. 22nd International Conference of the Association Tunisienne de Marketing (ATM), Sousse, Tunisia. | **CP** |
| 8 | **Zorgui, M., & Melliti, D**. (2025). Integrated Approach to Sustainability and Ethics Education: ESPRIT Tunisia as a Model for Global Universities through SDG Certification, Ethics, and Corporate Social Responsibility Courses. In 3rd UNITAR International Research Conference (3UIRC): Bridging Knowledge and Action to Deliver the SDGs. December 3–4, 2025 at the UN House in Brussels, Belgium | **CP** |

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

| # | RDI publication | Type[5] |
|---|---|---|
| 9 | **Zorgui, M., & Melliti, D.** (2026). Harnessing Education for Sustainable Development to Enhance Water Governance and Climate Adaptation in the Global South: A Comparative Scientific Study. In Sustainable Water Management and Resource Adaptation (SWMRA 2026) Conference, June 17-18, Rome, Italy | **CP** |

# Pedagogical Innovation RDI Publications



# Pedagogical Innovation RDI Publications (2025-2026 AY)

| # | RDI publication | Type[6] |
|---|---|---|
| 1 | Kakon, L., **Kamoun, F**., Fenniri, A., & Lisimachio, B. (2025). Harnessing generative AI and adaptive learning systems for scalable quality education. In: *Transforming education through generative artificial intelligence (GenAI): Innovations, challenges, and opportunities*, 17-82. | **BC** |
| 2 | **Hattab, S., Ziadi, F. & Essid. F.** (2026). "SecureExam: A Multi-Agent Architecture for Real-Time Fraud Detection and Integrity Certification in Computer Science Practical Examinations," in Lecture Notes in Artificial Intelligence (LNAI), Springer. | **BC** |
| 3 | **Ammar, M**. (2026). « L'IA générative comme levier d'engagement dans l'enseignement de la complexité algorithmique : une approche par problèmes en Recherche Opérationnelle » , 34ème congrès de l'Association Internationale de Pédagogie Universitaire (AIPU) , AIPU26, 20-23 May 202 | **CP** |
| 4 | **Kamoun, F**., & Iqbal, F. (2025, September 19). Human-AI co-creation in engineering education: Leveraging ChatGPT-4 to develop authentic case studies. In *Proceedings of the 2025 2nd International Symposium on Artificial Intelligence for Education* (pp. 33-38). ACM. https://doi.org/10.1145/3775073.3775080 | **CP** |
| 5 | **Bouhdid, B., & Douss, R**. (2025, December 4). GitHub-driven PPBL for agile, collaborative, and visible learning in the modern classroom. In *2025 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE)* (pp. 1-7). IEEE. https://doi.org/10.1109/tale66047.2025.11346594 | **CP** |
| 6 | **Bouhdid, B., & Douss, R**. (2025, December 4). Toward scalable, ethical, and AI-supported peer assessment in higher education. In *2025 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE)* (pp. 1-6). IEEE. https://doi.org/10.1109/tale66047.2025.11346723 | **CP** |
| 7 | **Douss, R., Bouhdid, B., Khemiri, A., & Marrouki**, A. (2026, April). An AI-Enhanced Peer Assessment Approach for Project-Based Learning in Engineering Education. In 2026 IEEE Global Engineering Education Conference (EDUCON) (pp. 1-10). IEEE. | **CP** |
| 8 | **Douss, R., & Marrouki, A**. (2026, April). EvalIA: Towards a Hybrid AI-Supported Platform for Oral Performance Assessment. In 2026 IEEE Global Engineering Education Conference (EDUCON) (pp. 1-10). IEEE. | **CP** |
| 9 | **Hachani, A., Mallek, M., & Jmal, Y**. (2026, February). Enhancing Academic Success: Performance Early Prediction Using Machine Learning. In *New Technologies, Artificial Intelligence and Smart Data: 12th International Conference, INTIS 2024, Tangier, Morocco, May 30–June 1, 2024, Revised Selected Papers* (p. 305). Springer Nature. | **CP** |
| 10 | **Hattab, S., & Ziadi, F**. (2026). Towards secure and transparent practical assessments in computer science: A multi-agent and blockchain-based architecture. In *Proceedings of the 18th International Conference on Agents and Artificial Intelligence* (pp. 504- | **CP** |

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

| # | RDI publication | Type[6] |
|---|---|---|
| | 511). SCITEPRESS - Science and Technology Publications. https://doi.org/10.5220/0014412600004052 | |
| 11 | **Khémiri, A., Bouhdid, B., & Douss, R**. (2025, November 20). Navigating the AI frontier in higher education: Applications, research trends, and a framework for responsible integration. In *2025 IEEE International Conference on Advances in Data-Driven Analytics And Intelligent Systems (ADACIS)* (pp. 1-6). IEEE. https://doi.org/10.1109/adacis65663.2025.11437161 | **CP** |
| 12 | **Maalaoui, H., & Samet, Y.** (2025, November 20). Personalized project-based learning through AI: A RAG chatbot approach. In *2025 IEEE International Conference on Advances in Data-Driven Analytics And Intelligent Systems (ADACIS)* (pp. 1-5). IEEE. https://doi.org/10.1109/adacis65663.2025.11436832 | **CP** |
| 13 | **Mejri, Y., & Riahi, M. H**. (2025). *Generative artificial intelligence for mathematics education in engineering schools: Advancing personalized learning approach*. International Conference on Artificial Intelligence and Cognitive Science for Emerging Technologies (AICSET 2025), Marrakech, Morocco. | **CP** |
| 14 | **Riahi, M. H., & Mejri, Y**. (2025). Generative Artificial Intelligence for Mathematics Education in Engineering Schools: Advancing Personalized Learning Approaches. In *International Conference on Artificial Intelligence and Cognitive Science for Emerging Technologies* (pp. 80-87). Cham: Springer Nature Switzerland. | **CP** |
| 15 | **Ziadi, F., & Hattab, S**. (2026). PBL-catalyst: A conceptual platform for AI-supported programming. In *Proceedings of the 18th International Conference on Computer Supported Education* (pp. 326-333). SCITEPRESS - Science and Technology Publications. https://doi.org/10.5220/0014811900004021 | **CP** |
| 16 | **Ziadi, F., Hattab, S., & Dansoko, M**. (2026). A Multi-Agent Platform for Active Programming Education," In proceedings of the IEEE International Conference on Artificial Intelligence for a Digital and Sustainable Transition (IEEE AIDIST2026) | **CP** |







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Z.I. Chotrana II. B.P. 160 – 2083

Pôle Technologique – El Ghazela

**Tél :** +216 70 685 685