

Preface

The 2025 International Conference on Information Systems and Communication Technologies (ICISCT'25) was successfully held from June 26 to 28, 2025, in Larache, Morocco. This premier gathering brought together leading researchers, industry practitioners, and policymakers to address the rapidly evolving challenges and opportunities at the nexus of information systems and communication technologies. The conference served as a vital platform for discussing the latest advancements in digital transformation, network infrastructures, cybersecurity, and data-driven decision-making. Central themes included the integration of artificial intelligence with communication networks, the development of resilient and secure information systems, and the role of emerging technologies in fostering inclusive and sustainable digital economies. By facilitating the exchange of cutting-edge research and real-world applications, ICISCT'25 significantly contributed to shaping the future of our interconnected digital world.

Eight experts took the stage at the conference. Mohamed Essaaidi kicked things off by laying out the challenges of smart cities. Almudena Suárez warned about Efficient Analysis of Compact Oscillator-Based Implementations in RFID Readers, Self-Injection-Locked Radar, and Wireless Power Transfer. Ahmed Boutejdar and Mohamed Et-tolba focused on the technical side—advanced modeling and physical layers—with Et-tolba drawing on his experience at Orange Labs. Rasha Hasan and Abdelali El Aroudi broadened the scope: one on resilient systems, the other on energy efficiency in power electronics. Industry representative Azzeddin Naghar (Commscope) shared practical feedback from the EMEA region. Finally, Korhan Cengiz, ranked among the top 2% most-cited researchers worldwide, closed with his latest work in electronics. Overall, these talks clearly connected lab research to real-world applications, while offering concrete outlooks for tomorrow's networks and sustainable cities.

The success of ICISCT'25 was the result of the unwavering dedication and collaborative efforts of numerous individuals and institutions. The organizing committee extends its deepest gratitude to all the authors and presenters whose scholarly contributions formed the core of the academic discourse. We are equally thankful to our keynote speakers for sharing their visionary research. The seamless execution of the conference was made possible by the tireless efforts of our volunteers and the generous support of our host institutions. We also acknowledge the critical and essential role played by our technical reviewers, who ensured the high quality and integrity of the accepted papers. This spirit of collaboration underscores a shared global commitment to pushing the boundaries of information systems and communication technologies. We look forward to building on this momentum and warmly welcoming the international research community to future editions of ICISCT.

The collected papers cover a wide spectrum of topics, including advanced network architectures, machine learning applications in cybersecurity, Internet of Things (IoT) systems, cloud and edge computing, digital health informatics, and sustainable ICT solutions. These contributions highlight the increasingly interdisciplinary nature of tackling global challenges through information technology. By documenting innovative methodologies, robust theoretical frameworks, and practical case studies, this volume serves as an invaluable resource for researchers, engineers, and decision-makers dedicated to advancing the state-of-the-art. The work presented herein marks a significant step toward creating more efficient, secure, and human-centric technological ecosystems.

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