

# Call for Papers

## AI and IoT for eHealth (AI-eH'25) Workshop

*The 21<sup>st</sup> International Conference on Wireless Communications and Mobile Computing*

Website: <http://iwcmc.org/2025/>

Submission Link: <https://edas.info/newPaper.php?c=32919>

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### Scope

The first AI-eH'25 Workshop invites contributions on the application of artificial intelligence (AI) and the Internet of Things (IoT) in the healthcare field. Researchers will discuss how these advanced technologies can be integrated to improve healthcare systems, focusing on security, real-time responses, and intelligent patient management and monitoring. Participants will explore case studies and address key challenges and opportunities in the evolving e-health landscape.

Through its various topics related to eHealth, it will include papers that explore how the use of new techniques such as IoT devices and AI methods can transform medical diagnostics and healthcare systems. Submissions can address the use of IoT devices for real-time patient monitoring, as well as the significance of communication protocols in collecting critical health data. Participants are also encouraged to submit contributions on health data analytics, including big data methodologies and data mining for developing predictive models. Security of IoT data, particularly challenges related to cryptography and authentication, will constitute key topics. Contributions on the interoperability of health systems and emphasizing standards are also welcomed. Additionally, innovative works related (but not limited) to AI and IoT based systems for clinical decision-making, visualization and monitoring of medical data for disease prevention and/or detection in the context of sports medicine and leisure purposes are welcomed. This can also explore the intersection of cutting-edge technologies that are set to revolutionize e-health systems, such as wBANs, 6G networks, Large Language Models (LLMs), blockchain, and advanced tools like Digital Twins (DT), AR/VR, and Human-Computer Interaction (HCI), etc. As healthcare demands increase, these technologies offer unprecedented opportunities for real-time, secure, intelligent healthcare delivery and quantum computing and its potential for processing complex health data.

Submit your original contributions related to your current research findings and insights on the future of AI and IoT for eHealth. Topics include, but are not limited to:

- AI in medical diagnosis and diseases prediction

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- IoT for Patient Monitoring
  - Health Data Analytics
  - Security of IoT Data
  - Quantum Computing in Health
  - 6G-enabled healthcare applications
  - LLMs in healthcare
  - Digital Twins (DT) in e-health
  - AR, VR, and MR for e-health
  - Real-time e-health services
  - e-Health services composition and adaptation
  - The future of healthcare
  - Implementation, proof-of-concepts and software tools.

## **Important Dates**

Same dates as listed in the conference website.

## **TPC Members**

- Hela MAKINA, SUPCOM, Tunisia
- Namory FOFANA, SUPCOM, Tunisia
- Karidja Dominique Christelle ADJE, SUPCOM, Tunisia
- Nawress ABDELWAHED, SUPCOM, Tunisia
- Tasnim ABBAR, SUPCOM, Tunisia

**Note:** Within this workshop, there will be one Best Paper Award.