



# CALL FOR PAPERS

## The First Workshop on Industrial Metaverse and Digital Twins (IMDT' 24)

Co-located with the 9<sup>th</sup> ACM/IEEE Symposium on Edge Computing (SEC)  
December 4-7, 2024, Rome, Italy

### Important Dates

Submissions deadline: **September 6, 2024**  
Notification of acceptance: **October 25, 2024**  
Camera-ready papers due: **November 1, 2024**  
Workshops date: **December 7, 2024**

### Topics of interests

Industrial Metaverse case studies, and experiences  
Barries to large-scale adoption  
Peer to peer virtual space synchronization  
Blockchain applications in the Industrial Metaverse  
AI and machine learning for the Industrial Metaverse  
XR software and app development challenges  
Digital twin with cloud/edge computing  
Resource limitation of XR devices  
Digital twins for software systems  
Digital twin networks  
Data-Driven digital twin modeling  
Digital twin for industrial IoT, smart cities, and intelligent vehicles  
Digital twin as an enabler of 5G/6G applications and services

### Organizing Committee

*Safwan Omari*, Lewis University, USA  
*Jaime Lloret*, Universitat Politècnica de València, Spain  
*Yaser Jararweh*, Jordan University of Science and Technology, Jordan  
*Gregorio Martínez Perez*, University of Murcia, Spain  
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*Xu Bo*, Lewis University, USA  
*Ziad Al-Sharif*, Lewis University, USA  
*Jake Cho*, Lewis University, USA  
*Mohammad Wardat*, Oakland University, USA

The inaugural workshop on Industrial Metaverse and Digital Twins (IMDT'24) aims to convene researchers, practitioners, and industry experts to share and discuss latest developments at the intersection of Metaverse and Edge computing. The Industrial Metaverse promises groundbreaking solutions characterized by high-fidelity visualization, immersive experiences, and real-time collaboration for users disbursed around the globe. These solutions span a wide range of domains such as manufacturing, transportation, training, healthcare, and smart cities. However, the realization of these solutions requires researchers and practitioners to address and overcome challenges at the edge device (XR devices) and network levels. These challenges encompass scalability, interoperability, data management, latency, security, privacy, safety, and power consumption.

### Submission Guidelines

Papers describing timely research contributions in areas of interest are solicited. Papers reporting on initial results or work in progress and papers discussing mature research projects or case studies of deployed systems are sought out. Submissions describing big ideas that may have a significant impact and could lead to interesting discussions at the workshop are encouraged.

Authors should follow the IEEE guidelines when preparing their contributions (maximum paper length: 6 pages with 10-pt font), IEEE Standard template for Latex and Word meet these specifications and can be found at:

<https://www.ieee.org/conferences/publishing/templates.html>

Submission website:

<https://easychair.org/conferences/?conf=imdt2024>

At least one of the authors of each paper accepted must register for the workshop

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