

IEEE Intelligent Mobile Computing 2024 CFP

The fusion of mobile communications, computing, and intelligence is catalyzing the emergence of innovative systems and applications that facilitate intelligent resource provisioning, process extensive data from mobile sensors and interconnected hardware platforms, and bolster the Internet of Things (IoT) through robust edge and cloud-based backend infrastructure. The pivotal role of current and forthcoming communication technologies, machine learning implementation, and mobile cloud infrastructures as facilitators for this convergence cannot be understated. These mobile intelligent applications are poised to revolutionize various facets of daily life, encompassing domains such as transportation, e-commerce, healthcare, smart homes, smart cities, social interaction, and more.

Mobile intelligence serves as an inclusive platform for both academic and industrial researchers to share their latest research insights, experimental findings, and the latest advancements in industry technologies related to mobile systems, machine learning, edge and cloud computing, services, and engineering. Leveraging the synergy of mobile communications, machine intelligence, edge computing, and edge/cloud infrastructures, the future of Mobile Intelligence Systems is envisioned to provide a multitude of critical and personalized services across diverse application domains, ranging from education, transportation, to public health, safety, and security. Submissions will be evaluated on the criteria of originality, significance, clarity, relevance, and accuracy.

Topics of Interest: (include but not limited to)

Theory, Modeling, and Methodologies

- Mobile cloud computing models, architectures, infrastructures, and platforms
- Mobile intelligence theories, concepts, algorithms, and methodologies
- Mobile cloud data management
- Mobile cloud tools, middleware, and data centers
- Mobile intelligence as a service
- Mobile networking, protocols, and technologies
- Quality of service (QoS)
- Mobile intelligence security and privacy

Applications and Industry Practice

- Mobile intelligence for autonomous driving systems, V2X, intelligent transportation systems (ITS), telematics

- Mobile intelligence for robotics, unmanned aerial vehicles (UAVs), and unmanned ground vehicles (UGVs)
- Mobile intelligence for sensor networks, Industrial IoT, industrial 4.0, and industry 5.0
- Mobile intelligence for future wireless technologies, 5G/6G, WiFi, Satellite, etc.
- Mobile intelligence for aviation, airports, and railway
- Mobile intelligence for Augmented Reality/Virtual Reality (AR/VR)
- Mobile intelligence for computer vision and video analytics
- Mobile intelligence for surveillance and disaster management
- Mobile intelligence for healthcare
- Mobile intelligence for metaverse
- Mobile intelligence for smart city
- Mobile intelligence for mission-critical systems
- Mobile intelligence for community services and social networking
- Mobile intelligence computing for sustainable development

Important Dates:

- Abstract submission: March 31st, 2024 (AoE)
- Full and work-in-progress papers submission: April 7th, 2024 (AoE)
- Notification: May 15th, 2024 (AoE)
- Final manuscript submission and author registration: May 22nd, 2024 (AoE)
- Conference: July 15th-18th, 2024 (AoE)

Submission Link:

- <https://easychair.org/conferences/?conf=imc24>