ICONS-IoT
International Conference on Networking, Intelligent Systems, and IoT

# 2024 International Conference on Networking, Intelligent Systems, and IoT (ICONS-IoT)

August 26–28, 2025

Bandung, Indonesia

## Call for Papers

We invite you to the International Conference on Networking, Intelligent Systems, and IoT (ICONS-IoT), a dynamic platform for researchers, industry experts, policymakers, and innovators from around the globe. Here, you can actively explore and discuss the latest advancements, challenges, and opportunities in networking, intelligent systems, and the Internet of Things (IoT).

The featured theme for 2024 is **Leveraging Networking, Intelligent Systems, and IoT for Sustainable Development**. Technical papers should be submitted on EDAS in the following eleven specified tracks. We highly appreciate and encourage you to contribute original, unpublished research papers not being considered for publication elsewhere on all aspects of networking, intelligent systems, and IoT, including but not limited to the following topics:

- **Sustainable Networking Infrastructure**
- **AI-Driven Solutions for Environmental Conservation**
- **Intelligent Sensing and Communication Infrastructure for Disaster Relief**
- **Smart Cities and Urban Development**
- **Healthcare Innovations for Public Well-being**
- **Cybersecurity and Privacy Protection in the Digital Age**
- **Future Trends and Emerging Applications**
- **Industry 4.0 and Sustainable Manufacturing**
- **Social Impact and Inclusive Technology Development**
- **Policy, Governance, and Ethical Frameworks**
- **Education and Lifelong Learning Enhancement**

Note that accepted papers will be submitted **for inclusion in IEEE Xplore** if they match its scope and quality.

## Important Dates

**Full Paper Submission**
March 11, 2025

**Acceptance Notification**
June 26, 2025

**Authors Registration**
July 26, 2025

**Final Manuscript Deadline**
July 26, 2025

## Visit Our Website

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### Organized by

Pusat Unggulan IPTEKS Perguruan Tinggi
Intelligent Sensing-IoT

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IEEE Signal Processing Society Indonesia Chapter

Fakultas Teknik Elektro
School of Electrical Engineering
Telkom University

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# CALL FOR PAPERS

Submit Your Original Research on Networking, Intelligent Systems, and IoT for Publication.

### Sustainable Networking Infrastructure:

- Green networking technologies and energy-efficient protocols
- Sensor-driven Network Monitoring and Optimization
- Eco-friendly network hardware design and deployment
- Renewable energy integration in networking infrastructure
- Self-configuring Sensor Networks

### AI-Driven Solutions for Environmental Conservation:

- AI-enabled environmental monitoring and conservation strategies
- Intelligent systems for climate change mitigation and adaptation
- IoT applications in sustainable resource management
- Intelligent Sensing and IoT for Air and Water Quality Monitoring
- Environmental Sensing for Energy-efficient Networking

### Intelligent Sensing and Communication Infrastructure for Disaster Relief:

- Disaster Early Warning Systems
- Rapid Environmental Assessment and Situational Awareness
- Disaster Recovery and Reconstruction
- Networking solutions for disaster management and emergency response
- IoT applications in disaster preparedness and recovery efforts

### Smart Cities and Urban Development:

- IoT-enabled infrastructure for smart urban planning and management
- Intelligent transportation systems and traffic optimization
- Networking solutions for sustainable and resilient cities
- Intelligent sensing for public safety and emergency response systems

### Healthcare Innovations for Public Well-being:

- Telemedicine and remote patient monitoring using intelligent sensing and IoT
- Wearable health devices
- AI-driven personalized healthcare and treatment recommendations
- Health data analytics for disease prevention and management
- Sensing technologies for aging-in-place

### Cybersecurity and Privacy Protection in the Digital Age:

- AI-driven cybersecurity solutions for protecting networked systems
- Privacy-preserving techniques for IoT data collection and processing
- Ethical considerations in the deployment of intelligent systems and IoT devices

### Future Trends and Emerging Applications:

- 5G and beyond
- Edge computing and networking
- Bio-inspired and nature-inspired sensing systems
- Intelligent systems for IoT data analytics
- AI-driven technology

### Industry 4.0 and Sustainable Manufacturing:

- IoT-enabled smart factories and supply chain optimization
- AI-driven predictive maintenance and quality control in manufacturing
- Networking solutions for sustainable and resource-efficient production processes

### Social Impact and Inclusive Technology Development:

- Networking, intelligent systems, and IoT for social inclusion and accessibility
- Addressing digital divide through innovative technologies
- Community-driven initiatives leveraging technology for societal benefit

### Policy, Governance, and Ethical Frameworks:

- Regulatory frameworks for responsible deployment of intelligent systems and IoT
- Policy considerations for ensuring equitable access to networking technologies
- Ethical guidelines for the development and use of AI and Io solutions
- Privacy-preserving Sensing Technologies

### Education and Lifelong Learning Enhancement:

- AI-based personalized learning platforms and adaptive tutoring systems
- Intelligent Sensing Technologies for Education and Learning
- IoT applications in educational environments for inclusive learning
- Lifelong learning initiatives supported by intelligent systems

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