

**CALL FOR PAPERS**

IEEE Journal of Selected Areas in Sensors Special Section on

**Artificial Intelligence of Things**

Artificial Intelligence (AI) and the Internet of Things (IoT) are two of the most rapidly evolving and interdependent fields of technology. The convergence of these two fields is leading to the creation of an emerging inter-discipline field, dubbed the Artificial Intelligence of Things (AIoT). The AIoT represents the integration of AI technologies into IoT systems and devices, enabling them to interact with their environment in more sophisticated and intelligent ways. By combining IoT with AI, the data collected by distributed nodes can be utilized by applying AI techniques such as machine learning and deep learning. As a result, machine learning capabilities are moved closer to the data source.

This special section aims to explore the integration of artificial intelligence (AI) technologies into the Internet of Things (IoT) systems and devices, enabling them to interact with their environment in more sophisticated and intelligent ways. This series will focus on the following areas:

- AIoT Architectures, Frameworks, and Algorithms: Developing novel AIoT architectures, frameworks, and algorithms for deploying state-of-the-art machine learning and deep learning algorithms on IoT, edge devices, communications, and networking, realizing the so-called Edge AI or Edge Intelligence or Network Intelligence;
- AIoT Applications: Identifying and exploring new AIoT applications, including healthcare, smart homes, industrial automation, transportation, and digital agriculture.
- Standards and Interoperability: Developing standards and protocols for AIoT systems and ensuring interoperability between different platforms and devices; and
- Ethics and Security: Addressing ethical and security, trust, privacy concerns related to AIoT, such as data protection, authentication, transparency, and accountability.

Authors are cordially invited to submit their original papers within the artificial intelligence of things area. The topics include but are not limited to:

1. Machine Learning for IoT Applications
2. Mobile deployment of Large Language Models (LLMs)
3. LLMs for AIoT applications
4. Smart Cities: AI and IoT Solutions
5. AI for IoT Communications and Networking
6. 6G and B6G and its Impact on AI and IoT
7. Edge, Cloud, and Fog Computing in AI and IoT
8. Security, Trust, and Privacy in AI-driven IoT Systems
9. AI for Embedded Systems and Robotic Systems
10. Blockchain Technology for AI and IoT
11. Human-Machine Interaction in IoT Environments
12. IoT Sensors and Actuators: Innovations and Advances
13. AI-driven Predictive Maintenance in IoT
14. Energy-Efficient AI Algorithms for IoT Devices
15. IoT in Healthcare: Applications and Challenges
16. Industrial IoT (IIoT) and AI for Manufacturing

17. AI for Social Computing and Social IoT
18. Smart Agriculture: AI and IoT in Precision Farming
19. Ethical Considerations in AI-powered IoT Systems
20. Trustworthy AI for autonomous vehicles
21. IoT Standards and Interoperability
22. Robotic Process Automation (RPA) in IoT
23. AI-driven Automation in Supply Chain Management
24. IoT Analytics and Big Data Processing
25. AI in Edge Devices: Challenges and Solutions
26. Wireless Sensor Networks in AI and IoT
27. IoT for Environmental Monitoring and Sustainability
28. AI and IoT in Transportation and Logistics
29. Ubiquitous IoT integrating Space, Air, Ground, and Sea
30. AI with IoT Multimedia
31. Cross-domain Integration of AI and IoT Technologies

### **Submission Guidelines:**

Both solicited and unsolicited papers will undergo the standard IEEE Journal of Selected Areas in Sensors (JSAS) peer review process. All manuscripts must be submitted on-line, via the IEEE Author Portal, see <https://ieee.atyponrex.com/journal/jsas>. When submitting, please indicate in the “Manuscript Type” roll down menu that the paper is intended for the “Artificial Intelligence of Things” Special Section. Authors are particularly encouraged to **suggest names of potential reviewers** for their manuscripts in the space provided for these recommendations in *Manuscript Central*. For manuscript preparation and submission, please follow the guidelines in the *Information for Authors* at IEEE Journal of Selected Areas in Sensors web page, <https://ieee-jsas.org/>

### **Deadlines:**

- |                                  |                   |
|----------------------------------|-------------------|
| · Manuscript Submission:         | December 15, 2025 |
| · Initial Decision Notification: | March 30, 2026    |
| · Revised Manuscript Due:        | April 30, 2026    |
| · Final Decision Notification:   | May 30, 2026      |
| · Final Manuscript Due:          | June 30, 2026     |

### **Guest Editors:**

- Lead GE: Ruidong Li, Kanazawa University, Japan ([liruidong@ieee.org](mailto:liruidong@ieee.org))
- GE1: Reza Malekian, Malmö University, Sweden ([reza.malekian@mau.se](mailto:reza.malekian@mau.se))
- GE2: Mani Srivastava, University of California, Los Angeles, USA ([mbs@ee.ucla.edu](mailto:mbs@ee.ucla.edu))
- GE3: Baochun Li, University of Toronto, Canada ([bli@ece.toronto.edu](mailto:bli@ece.toronto.edu))
- GE4: Ai-Chun Pang, National Taiwan University, Taiwan ([acpang@csie.ntu.edu.tw](mailto:acpang@csie.ntu.edu.tw))
- GE5: Ranga Rao Venkatesha Prasad, TU Delft, Netherlands ([r.r.venkateshaprasad@tudelft.nl](mailto:r.r.venkateshaprasad@tudelft.nl))
- GE6: Syed A. R. Zaidi, University of Leeds, UK ([s.a.zaidi@leeds.ac.uk](mailto:s.a.zaidi@leeds.ac.uk))
- GE7: Sharief Oteafy, DePaul University Chicago, USA ([soteafy@depaul.edu](mailto:soteafy@depaul.edu))