

CALL FOR PAPERS

IEEE Internet of Things Journal Special Issue on

Intelligent IoT for Sustainable Agriculture and Food Industries

Agriculture and food industries are the cornerstones of human society. Unfortunately, modern agriculture and food industries confront many challenges and are far from sustainable. Many waste and carbon emissions are generated, and resource usage is not optimized in the agriculture and food industries. Luckily, the importance of sustainable agriculture and food industries has been well-recognized and has been included in the second goal (together with the other 16 goals) of sustainable development by the United Nations. On the way to sustainable agriculture and food industries, intelligent IoT technologies will play significant roles. It is expected that intelligent IoT will enable innovative solutions to promote waste reduction, carbon reduction, resource usage optimization, improved productivity, etc. Meanwhile, there are still significant technical challenges for intelligent IoTs in sustainable agriculture and food industries, such as the lack of commonly accepted IoT architecture, the security issues of IoT-enabled applications, and the optimal integration of diverse technologies. With these motivations, this special issue seeks innovative and groundbreaking intelligent IoT technologies and pioneering applications for sustainable agriculture and food industries.

Topics include, but are not limited to the following:

- Intelligent IoT architecture for sustainable agriculture and food industries
- Edge computing-enabled IoT for sustainable agriculture and food industries
- Artificial intelligence-enabled IoT for sustainable agriculture and food industries
- Cloud-native IoT in sustainable agriculture and food industries
- Blockchain-enabled IoT for sustainable agriculture and food industries
- Security and trustworthy IoT for sustainable agriculture and food industries
- Biodegradable and eco-friendly IoT for sustainable agriculture and food industries
- Intelligent IoT for carbon reduction in agriculture and food industries
- Intelligent IoT for waste reduction in agriculture and food industries
- Intelligent IoT for supply chain optimization in agriculture and food industries
- Next-generation IoT for sustainable agriculture and food industries
- etc.

Important Dates:

Submission Deadline: May 15, 2025

First Review Due: Jul. 15, 2025

Revision Due: Aug. 15, 2025

Sec. Reviews Due/Notification: Sept.15, 2025

Final Manuscript Due: Sept. 30, 2025

Publication Date: December 2025

Submission Guidelines:

All original manuscripts or revisions to the IEEE IoT Journal must be submitted electronically through IEEE Manuscript Central, <https://mc.manuscriptcentral.com/iot>. When the authors reach the “Article Type” step in the submission process, they should select “SI: Intelligent IoT for Sustainable Agriculture and Food Industries”. Solicited original submissions must not be currently under consideration for publication in other venues. Author guidelines and submission information can be found at <http://ieee-iotj.org/guidelines-for-authors/>.

Guest Editors:

Prof. Yuemin Ding, University of Navarra, Spain, email: yueminding@unav.es (lead guest editor)

Dr. Zhibo Pang, ABB & KTH Royal Institute of Technology, Sweden, email: pang.zhibo@se.abb.com

Dr. Yu Liu, Ericsson Research, Sweden, email: yu.a.liu@ericsson.com

Dr. Kan Yu, La Trobe University, Australia, email: K.Yu@latrobe.edu.au

Prof. Fei Pan, Sichuan Agricultural University, China, Email: fei.pan@sicau.edu.cn