

Annual Conference of the IEEE Industrial Electronics Society (IECON 2022)

Special Session on

“Edge-Based Network Automation for Industrial Internet-of-Things”

Organized by

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Call for Papers

Theme:

Network automation has embraced its new era by the emerging network virtualization and softwarization technologies, as one of the key goals of Industrial Internet of Things (IIoT) towards Industry 4.0. Edge computing, contributing to the conceived user densification of 5G, even towards 6G, brings challenges and opportunities simultaneously, for the future distributed network automation for IIoT. How to automate harmonizing the heterogeneous edge computing servers among multiple service providers spatiotemporally in IIoT requires significant research efforts, with enhanced QoS/QoE. This Special Session focuses on tackling the cutting-edge edge computing based network automation for IIoT, considering the emerging conceived applications in 5G/B5G based Industry 4.0.

Topics of interest include, but are not limited to:

1	Theoretical modeling, analysis and development of edge computing based network automation for IIoT
2	Edge computing based Automated multi-dimensional RAN deployment for emerging technologies of 5G/6G (e.g., THz, LPWAN: NB IoT, LoRa...)
3	Integrated hierarchical system development for harmonizing edge/cloud computing
4	Edge computing based automated network configuration and protocol development
5	Edge computing based softwarization and virtualization for IIoT
6	Pervasive AI/ML technologies based on edge computing for IIoT
7	Edge computing based security and privacy strategies for IIoT
8	Data accuracy analysis and self-healing technologies for IIoT
9	Standardization and analysis of blockchain network automation for IIoT
10	Applications/testbeds of edge computing based network automation for IIoT

Good quality papers may be considered for publication in the IEEE Trans. on Industrial Electronics, subject to further rounds of review.

Sponsoring IES Technical Committee(s):

IEEE IES Technical Committee on Building Automation, Control, and Management

<https://bacm.ieee-ies.org/>

Submissions Procedure:

All the instructions for paper submission are included in the conference website: <https://iecon2022.org/>

Deadlines:

Full paper submission:	April 15, 2022
Paper acceptance notification:	June 17, 2022
Camera-ready paper submission:	July 29, 2022