

Special Issue

Beyond the Cloud: The Rise of Intelligent Edge Computing Fueled by AI, Signal Processing, and Security

Message from the Guest Editors

The convergence of IoT, edge computing, and cloud infrastructure is revolutionizing how we process and analyze data, driving intelligence and decision-making closer to the source. This Special Issue explores the dynamic interplay of Artificial Intelligence (AI), advanced signal processing, and robust security within this transformative computing paradigm. We invite contributions that address the unique challenges and opportunities presented by harnessing these technologies across the IoT–edge–cloud continuum. We encourage submissions on areas including, but not limited to, the following: AI-Driven Edge Intelligence; Signal Processing for the Intelligent Edge; Security and Privacy in the IoT–Edge–Cloud Ecosystem; Cross-Cutting Themes. By fostering knowledge-sharing and collaboration, we aim to accelerate breakthroughs in this exciting field and pave the way for the next generation of intelligent, secure, and efficient computing solutions. We look forward to receiving your contributions!

Guest Editors

Dr. Chandrajit Pal

School of Computer Science and Electronic Engineering (CSEE),
University of Essex, Colchester CO4 3SQ, UK

Dr. Xiaojun Zhai

School of Computer Science and Electronic Engineering (CSEE),
University of Essex, Colchester CO4 3SQ, UK

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closed (15 May 2025)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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