

Special Issue

Sensor-Based Edge, Fog, and Cloud Computing: Enabling Next-Generation IoT Applications

Message from the Guest Editors

The rapid growth of Internet of Things (IoT) applications has led to an exponential increase in the volume of sensor-generated data. Traditional centralised cloud computing architectures struggle to handle the massive influx of data, leading to latency issues, bandwidth constraints, and increased costs. To address these challenges, a distributed computing paradigm has emerged, combining edge, fog, and cloud computing. Edge computing brings computation and data storage closer to the data source, reducing latency and bandwidth requirements. Fog computing extends this concept by introducing intermediate computing nodes between the edge and the cloud, enabling localised data processing and analytics. Cloud computing, on the other hand, offers vast storage and computing resources for scalable and elastic data processing. This Special Issue therefore aims to collect original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of sensor-based edge, fog, and cloud computing systems. For detailed information, please visit [here](#).

Guest Editors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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