Special Issue

Smart, Autonomous and Evolved Technologies in Internet of Things

Message from the Guest Editor

IoT, consisting of advanced technologies from sensing, communicating, and big data to cloud computing, has been ubiquitously used in many areas and applications such as smart homes, health monitoring, and smart grids. IoT helps to significantly improve quality of service and thus reduce costs, increase productivity, and improve real-time reaction time in unexpected situations. However, IoT-based systems still have challenges. For instance, many IoT systems are not smart enough to deal with abnormal situations—e.g., when a connection between a gateway and cloud servers is intermittent, quality of service is significantly reduced. Additionally, when a large volume of data is collected and transmitted over a network, bandwidth may be overloaded, causing delays in transmission. In another example, when one of the components of an IoT system (e.g., sensor node or gateway) fails, the service can be interrupted. Therefore, there is a need for evolved and smart methods, architectures, systems or technologies that can help to overcome these challenges. This Special Issue addresses all the essential aspects that are required to make this happen.

Guest Editor

Dr. Tuan Nguyen Gia
Silo AI, Fredrikinkatu 57 C, 00100 Helsinki, Finland

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

mdpi.com/journal/sensors

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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