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Smart, Autonomous and Evolved Technologies in Internet of Things

Guest Editor:

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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.



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Special Issue



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Message from the Editor-in-Chief

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