

Special Issue

Emerging Trends and Challenges in Fog and Edge Computing for the Internet of Things

Message from the Guest Editors

The Internet of Things (IoT) requires a deep reorganization of the infrastructure to support acceptable Quality of Service (QoS). For 10 years, new paradigms have been proposed to realise a continuum between the cloud and the IoT: fog and edge computing. The goal of this new architecture is to plunge all of the numerous tiny connected devices in near distributed resources that provide computing and storing capabilities. However, the Internet was not originally designed for this use. In this context, we can enumerate different ongoing problems, like internetworking and interoperability, how to store data and to perform distributed computation, or how to support mobility, scalability, availability, security in this infrastructure, which has energy constraints. This Special Issue addresses all those problems with encouraging emerging technologies from networks and distributed systems communities. In particular, we can note (but are not limited to the interesting information centric approaches (name data networking, information centric networking, etc.) or new adapted propositions for IoT in peer-to-peer (P2P) networks and distributed ledgers, like blockchains.

Guest Editors

Dr. Benoît Parrein

University of Nantes/LS2N lab, 44306 Nantes, France

Dr. Bastien Confais

Inatysco SAS, 34000 Montpellier, France

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

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Prof. Dr. Amiya Nayak
School of Electrical Engineering & Computer Science, University of
Ottawa, 800 King Edward Avenue, Ottawa, ON K1N 6N5, Canada

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