IoT

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Edge Computing Optimization Using Artificial Intelligence Methods

Guest Editors:

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

Dear Colleagues,

The growing importance of the Internet of Things (IoT) and the ubiquitous high capacity provided by 5G technologies have brought the specter of massive quantities of data being generated and/or consumed by sensors, actuators, and smart devices. Such massive amounts of data require considerable processing power, which is available in the cloud. However, cloud-based computation and data delivery models do not allow the stringent quality of service (QoS) guarantees to be efficiently harnessed. For this Special Issue, original scientific articles are welcome on the following as well as closely related topics:

- AI-based algorithms to optimize job placement in EC
- AI software architectures favoring distributed computing job placement in EC resources (e.g., Distributed Deep Neural Network architectures)
- AI-based mechanisms supporting open EC markets leveraging the participation of third-party computing resources opportunistically (e.g., parked autonomous vehicles)
- AI-based methods to optimize mobile EC resources' placement (e.g., EC capable drones)