Special Issue

Smart Cyberphysical Systems and Cloud–Edge Engineering

Message from the Guest Editors

At present, computers, smart sensors and devices are pervasive, and computational processes are increasingly becoming transparent to humans, making up the very fabric of contemporary societies. The growing scale, in terms of devices and data, of modern sCPS and the need to perform complex processing and provide fast responses makes cloud–edge platforms natural candidates for integrating such systems. By applying the model and principles of cloud computing to sCPS, any virtual or physical device, including sensors and actuators, is available as a service and can quickly and autonomously be provisioned for usage to meet the user and application demands. By leveraging the edge computing paradigm, time constraints of CPS can be dealt with. In this context, this Special Issue intends to explore the multiple aspects of sCPS and the role of cloud–edge computing as an integrating and enabling platform for this paradigm. Potential topics of interest include but are not limited to the following:

- Cyberphysical systems
- Cloud–edge computing
- Big data
- Smart systems
- Adaptive and real time systems

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