Special Issue

Cyber-Physical Systems: Data Processing and Communication Architectures

Message from the Guest Editor

Last generation computing architectures have evolved from traditional stand-alone embedded systems to complex environments, where computational elements tightly interact with physical entities, such as sensors networks and I/O devices. These systems, usually referred as cyber-physical Systems (CPS), enabled a flourishing ecosystem of architectures and platforms where smart objects, users and communication infrastructures interact to support intelligent context-aware services and applications. Smart grids, medical monitoring, smart cities, distributed pollution and tracking are just a few examples of concrete applications that are gaining attraction among industries and institutions. However, the mobility and pervasiveness requirements of such environments impose energy consumption constraints that must be met in a context of increasing computational needs, due the processing of large amounts of data coming from sensing and input devices. This Special Issue aims at exploring emerging approaches, ideas and contributions to address the challenges in the design of energy efficient computational-centric smart objects in CPS.

Guest Editor

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