Special Issue

New Insights into Pervasive and Mobile Computing

Message from the Guest Editors

Due to improvements in their CPU/GPU capabilities, intelligent mobile devices can now undertake more computing tasks. This computational mechanism is called pervasive and mobile computing. The proliferation of pervasive and mobile computing in intelligent mobile devices is now regarded as an effective mechanism able to assist or change human life. Ubiquitous computing through the design and deployment of various pervasive and mobile computing systems is able to sufficiently perceive various states of humans and things, such as human activities, decision assistance, and health care. It utilizes the computation power of intelligent mobile devices to improve the quality of people's work and life, proving its potential for pervasive and mobile computing. Ideally, computing services will be efficient, reliable, and ubiquitous. However, in reality, the implementation of adaptive and reliable mobile computing systems is still challenging. Maintaining robustness under dynamic network conditions, adapting to dynamic and limited resource constraints, rational energy schedules, protecting data privacy, etc., are still open problems.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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