Special Issue

The Applications of Context Awareness Computing and Image Understanding II

Message from the Guest Editors

Context awareness computing uses software and hardware to collect and analyze data to guide responses automatically. More specifically, awareness computing aims to incorporate the latest sensing capabilities of diverse signals with intelligent computing systems to remain in constant observing and awareness states, such as power-aware, location-aware, and context-aware, under a unified computational framework. Image understanding algorithms often enhance system awareness. Robot vision systems aim to analyze objects from the low-level, iconic processes of early vision to the high-level, symbolic methods of recognition and interpretation. In these applications, image understanding provides an intelligent mechanism for computers to recognize, interpret, and analyze images, which is essential when it comes to improving service quality. Many deep learning algorithms are applied in image object recognition. If we can integrate image recognition and context awareness computing, many innovative applications will be achieved. This Special Issue focuses on related applications based on awareness computing systems and innovative image understanding technologies.

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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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