

Special Issue on
Emerging Trends in Multimedia Technologies for Interactions among Human, Computer, and Things

CALL FOR PAPERS

With the rapid growth of the mobile computing, pervasive/ubiquitous computing, and IOT technologies, nowadays, traditional human-computer interaction cannot meet the requirement of many applications in which computers are usually in the form of smart mobile devices, and interactions between human and things and computers and things are also needed. Therefore, interactions among human, computer, and things should be viewed and studied as a whole and new features of the interactions should be considered. For interactions among human, computer, and things, the multimedia technology plays a very important role, in fields such as environment perception, interaction methods, and interaction interfaces. And, also, interaction among human, computer, and things poses new challenges to multimedia technologies, for example, higher computational efficiency, self-adaption to context, seamless switching between different scenes, and new method and interfaces for human-device and human-thing interaction.

This special issue focuses one emerging trends in multimedia technologies for interactions among human, computer (mobile device), and things. We welcome research work on the multimedia part of intelligent perception of humans and things, and interaction between each other of among human, computer, and things.

Potential topics include but are not limited to the following:

- ▶ Multimedia techniques for intelligent perception of the environment and other devices/things, for example, human/object detection and tracking, visual/audio scene detection, and visual/audio event detection
- ▶ Multimedia techniques for natural interaction methods between human and computer and human and things, for example, action recognition and speech interaction
- ▶ Novel multimedia interface for human-computer and human-things interaction, for example, virtual reality and augmented reality
- ▶ Multimedia sensors in wearable devices or things for interaction among human, computer, and things
- ▶ Novel multimedia applications for interaction among human, computer, and things

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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