



Multimedia Tools and Applications

An International Journal
Editor-in-Chief: Borko Furht

Call for Papers

Special Issue on “Emotion-aware Healthcare Systems Integrating with Wearable and Cloud Computing”

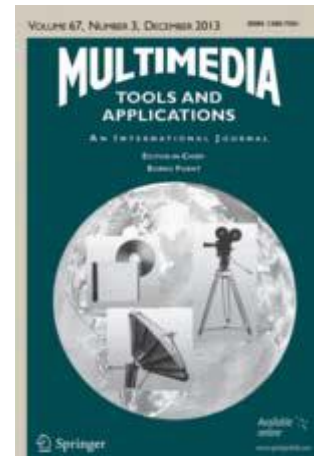
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Aim and Scope:

Compared to the conventional healthcare systems, a wearable computing-based solution is advantageous in many ways by upgrading the healthcare applications from the traditional on-spot mode to in-home and in-mobility modes. The combination of wearable computing and cloud computing plays an important role to improve the quality of services in healthcare systems. However, the existing systems mainly focus on healthcare services according to a physiological aspect with two undesirable features: unsustainable psychological data collection and emotional care deficiency. Hence, healthcare systems are expected to be enhanced for representation, management, processing, and application of big emotional data including multi-sensor data which extends the conventional concept of multimedia data, with an intelligent interactive mechanism and with the capability of sensing users' physiological and psychological conditions in a sustainable way.

In this special issue, we are particularly interested in high quality contributions and innovations in this interdisciplinary area of emotion-aware healthcare systems. We are especially interested in, but not limited to, the topics of interest listed below:

- Detection and Classification Methods for Multimedia Data
- Emotion-aware Interaction of Healthcare Systems
- Pervasive and Mobile Interactive Healthcare Services
- Wearable Computing, Mobile Cloud Computing for Emotion-aware Healthcare

- Human-centric Emotion Recognition based on Multimedia Data
- Multimedia and Multi-Sensor Data Fusion for Emotion Recognition
- Context-aware, Emotion-aware, Location-based and other Novel Healthcare Services
- Innovative Healthcare Applications of Emotion-aware Mobile Computing
- Tools and System Design Issues for Developing Affective and Proactive Interfaces
- Memory, Reasoning, and Learning in Affective Healthcare Robotics

Important Dates:

- Full paper submission deadline: Jan. 1, 2017

- Review decision: Feb. 31, 2017

- Final version submission: Mar. 31, 2017



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