

Special Issue Call for Papers

Multimedia Tools and Applications, Springer Journal

<http://www.springer.com/journal/11042>

A Special Issue on "Multimedia Tools for Physiological Computing"

Special issue editors:

- Alan Pope (NASA Langley Research Center, U.S.A.)
- Hugo Plácido da Silva (IT – Institute of Telecommunications, Portugal)
- Kiel Gilleade (Biofeedback Technology Consultant, U.S.A.)

Contact:

hsilva@lx.it.pt

Deadline for Submissions:

30 November 2016

Physiological data provides a plethora of psychophysiological information related with the state of the user. Such data can provide important contextual information upon which computer systems to draw inferences with respect to the affective, cognitive and physical state of a person.

In a multimedia system, such information can be useful for control, intelligent adaptation, feedback about the health status, user-tuned content production and many other applications. For example, a videogame can use psychophysiological inferences of the player's level of mental workload during play to adjust the difficulty in real-time.

Multimedia systems only barely incorporate physiological data in their design. In the opposite direction, physiological computing systems can greatly benefit from the more engaging experience provided by the work done in the field of multimedia.

In this special issue we call for the submission of cutting edge research work aimed at bridging the gap between multimedia tools and physiological computing systems, by addressing topical issues involved in the creation of multimedia tools for physiological computing. The focus of this special issue is on Multimedia Tools for Physiological Computing, and within this the scope includes but is not limited to:

- Multimedia platforms and systems for physiological computing
- Adaptive multimedia interfaces driven by physiological computing
- Applications of physiological data in multimedia systems
- Mobile and embedded multimedia systems for physiological computing
- Assistive technologies mediated by physiological computing
- Affective interfaces
- Context aware interfaces
- User experience of multimedia tools for physiological computing

- Visual information systems that incorporate physiological data

All contributions will be rigorously peer reviewed to the usual exacting standards of MTAP. Further information, including submission procedures and advice on formatting and preparing your manuscript, can be found at:

<http://www.springer.com/computer/information+systems+and+applications/journal/11042>