

SMC 2017



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Special Session Call for Papers

Special Session on Human Perception in Multimedia Computing

Special Session organizers

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Important Dates

April 7, 2017: Deadline for submission of full-length papers to special sessions.

May 25, 2017: Acceptance/Rejection Notification.

July 9, 2017: Final camera-ready papers due in electronic form.

Submission

Manuscripts for a Special Session should **NOT** be submitted in duplication to any other regular or special sessions and should be submitted to SMC 2017 main conference online submission system on SMC 2017 conference website:

<http://www.smc2017.org/>

Introduction/Call for Papers

Our goal is to demonstrate how human perception of multimedia can lead to enhanced practical systems, and how human study and user experience innovation can foster the multimedia computing system development. Human perception has been studied extensively and for a long time in psychology, but only in the late twentieth century has it emerged as a research area in computer graphics, image processing, computer vision, multimedia communication, and related disciplines. From the human-computer interface (HCI) perspective, audio and visual data can trigger conscious and unconscious user responses. The perceptual approach assumes that perceived quality is essential provided it is noticeable to the human visual system (HVS); details that do not enhance perceived quality only waste computational and network resources. Experiments assessing the limitation of the human visual system show that multimedia applications can take advantage of these human perceptual limits. With the emerging areas of social computing, mobile sensing, crowdsourcing, and so on, the perceptual approach and QoE optimization technology can be applied in conjunction to achieve higher system efficiency.

Topics/Areas

- Human Perception
- Visual Quality
- Human-Oriented Multimedia Computing
- Advanced Multimedia User Experiences
- Human and Mobile Media
- Media recommender systems
- Human-based sensing and data mining

This special session is organized by the SMC TC on Human Perception in Multimedia Computing

<http://www.ieeesmc.org/technical-activities/human-machine-systems/human-perception-in-multimedia-computing>