

Call for Papers

IEEE Transactions on Human-Machine Systems Special Issue on “Wearable and Ego-vision Systems for Augmented Experience”

The rapid progress in the development of low-level component technologies such as wearable cameras, wearable sensors, wearable displays and wearable computers is making it possible to augment everyday living. Wearable and egocentric vision systems can be exploited to analyze multi-modal data types (e.g. video, audio, motion) and to support understanding human interactions with the world (including gesture recognition, action recognition, social interaction recognition). Based on the processing of such data, wearable systems can be used to enhance our capabilities and augment our perception. State-of-the-art techniques for wearable sensing can support assistive technologies and advanced perception. This special issue intends to highlight research in support for human performance through egocentric sensing. Topics of interest include but are not limited to:

- Human and wearable devices interaction
- Egocentric (first-person) Vision
- Affective computing with respect to wearable devices
- Object detection, Action/Activity recognition and tracking with wearable devices
- Mobile/Head-mounted eye tracking
- Social understanding from egocentric perspective
- Daily life and activity monitoring
- Augmented human performance
- Benchmarking and quantitative evaluation with human subject experiments

Important Dates:

Paper submission due date	October 1, 2015
Completion of first round of reviews	January 1, 2016
Revised manuscript due date	April 1, 2016
Final decision notification	May 1, 2016
Final version of the manuscript due	June 1, 2016

Papers should be submitted to <http://mc.manuscriptcentral.com/thms> with a cover letter including the statement “This manuscript is submitted for the special issue on Wearable and Ego-vision Systems for Augmented Experience”. For detailed submission information, please refer to “Information for Authors” at <http://www.ieee-smc.org/publications/thms-info-for-authors.pdf>

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