CALL FOR PAPERS

IEEE International Conference on Ubiquitous Intelligence and Computing

Special Session on

Visual Perception and Visual Computing (VCVP)

http://ieee-smartworld.org/2017/uic/

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Introduction:

The study of biological vision and machine vision share common history, and the findings from each field has enormously benefited the other. Vision science makes great progress in visual perception and neural science. On the other hand, as computation is becoming faster and cheaper, some vision tasks such as image understanding and object recognition, which humans are good at, have been rivaled by computers, especially with the aid of deep learning.

This special session is to reignite conversations between these two fields and to benefit research in the joint field. We encourage submissions that will be of potential cross-disciplinary interest to both human and computer vision. Research works connecting both visual perception and visual computing are particularly welcome.

Topics of interest include, but are not limited to, the following areas:

* Colour Perception
* 3D Perception
* Material Perception
* Perceptual Models
* Biology Inspired Computer Vision
* Understanding of Human motions (action, gesture eye gaze etc.)
* Face Perception and Recognition
* Visual Perception and Visual Computing in Virtual Environment
* Machine Learning for Visual Perception and Visual Computing

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Accepted papers must contain novel results. Results can be either theoretical or empirical. Results will be judged on the degree to which they have been objectively established or their potential for scientific and technological impact. All papers need to be submitted electronically through submission link:

The materials presented in the papers should not be published or under submission elsewhere. Once accepted, the paper will be included into the IEEE conference proceedings published by IEEE Computer Society Press. At least one of the authors of any accepted paper is required to attend the conference.