



CFP: Thematic Issue on "**Computer Vision for Ambient Intelligence**" in JAISE:

The vision of ambient intelligence revolves around understanding human behavior in its many social settings, and to provide humans with socially aware cognitive systems, enabling a shift from usability to sociability, or to ambient culture. We envision seamlessly integrated plug and play devices that can be used to endow a given environment with an awareness of the physical, functional, temporal and social organization of its internal domestic dynamics, as well as the personalities and social relationships of its inhabitants, providing a vast array of new services for ordinary people.

While many novel sensory modalities are offering the designers of ambient intelligence applications new possibilities of realizing these goals, computer vision remains the most important modality in providing rich information in an unobtrusive manner. We solicit contributions to a thematic issue of the Journal of Ambient Intelligence and Smart Environments on "Computer Vision for Ambient Intelligence". The aim of this issue is to introduce novel computer vision approaches to the challenges of understanding human behavior in ambient environments. Provided that application area is compatible with the aims of the journal and the thematic issue, the topics include (but are not restricted to):

- Scene and event modeling, representation, and reconstruction
- Human activity analysis
- Social signal processing
- Facial expression and gesture recognition
- Face and body tracking
- Distributed video surveillance
- Behavioral biometrics
- New feature selection and extraction methods

- Vision for multimodal fusion
- Mathematical description and integration of contextual information
- Spatio-temporal dynamics of actions
- Recognition of signs and emblematic gestures
- Visual action grammars
- Benchmarking studies on novel databases
- Vision for applications of elderly care, smart cars, and smart buildings

#### SUBMISSIONS:

Submissions must represent original material. Papers are accepted for review with the understanding that the same work has been neither submitted to, nor published in, another journal or conference. All manuscripts will undergo a rigorous review process by at least three experts. Submission of comprehensive survey papers is encouraged. These should have added value for the field, and introduce new perspectives, taxonomies, etc., or critically discuss existing work to provide a broader vision.

#### IMPORTANT DATES:

December 1, 2010: Submission of full paper

January 15, 2011: First round of reviews

March 11, 2011: Submission of revised papers

April 15, 2011: Second round of reviews

May 1, 2011: Notification of acceptance

July 2011: Publication

#### EDITORS IN CHIEF:

Hamid Aghajan, Stanford University

Juan Carlos Augusto, University of Ulster

#### GUEST EDITORS:

Albert Ali Salah, University of Amsterdam

Theo Gevers, University of Amsterdam

Nicu Sebe, University of Trento

Alessandro Vinciarelli, University of Glasgow

To submit a paper, go to:

<http://www.iospress.nl/loadtop/load.php?isbn=18761364>

For more information contact:

Dr. Albert Ali Salah

Informatics Institute, Faculty of Science,

University of Amsterdam

Science Park 107, 1098XG

The Netherlands

phone: +31 (0) 20 525 7550

home: <http://staff.science.uva.nl/~asalah/>

e-mail: [a.a.salah@uva.nl](mailto:a.a.salah@uva.nl)