

Pattern Recognition Special Issue Call for Papers: Articulated Motion and Deformable Objects

Aims and scope

This SI invites contributions which make novel developments to the theory and application of pattern recognition and machine learning to the analysis of human motion and deformable objects. Articulated motion and deformable objects (AMDO) research focuses on the automatic analysis of complex objects, such as the human body. The subject is important to different fields, including pattern recognition, computer vision, computer graphics, multimedia applications, and multimodal interfaces. Advances in the automatic analysis of this kind of objects will promote the generation of new technologies and applications in many sectors, including leisure industry (gaming, intelligent retrieval of video data, augmented reality, Human Computer Interaction, etc.), security (security surveillance and ambient intelligence), health care (greater autonomy for those suffering disabling diseases, advanced assisted living, inpatient monitoring, supported diagnosis, etc.) and energy (smart rooms, buildings and cities), to name just a few. This Special Issue invites extended and updated versions of papers published at recent AMDO conferences as well as submissions from anybody presenting novel Pattern Recognition methods in the field of AMDO.

Topics and guidelines

The submission of papers making **fundamental or practical** contributions to the following topics is encouraged:

- Manifold Learning for AMDO,
- Subspace methods for AMDO,
- Kernel methods for AMDO,
- Pattern Recognition methods for Human Modelling & Animation,
- Human Motion Analysis & Tracking for activity recognition,
- 3D Human Reconstruction & Recognition,
- Pattern Recognition methods for Multimodal AMDO,
- Pattern Recognition for Ubiquitous & Social Computing,
- 2D/3D Deformable Models,
- Deep Learning Methods for 2D and spatio-temporal deformable object analysis,
- New statistical, structural or syntactic pattern recognition methods for AMDO,
- New Pattern Recognition applications in the field of AMDO.

Although submissions from participants and attendees of AMDO events are particularly encouraged, this is an open call inviting papers from anybody working on new Pattern Recognition methods in the AMDO field. All papers will undergo the same rigorous Pattern Recognition revision process. Please refer to the PR website for detailed instructions on paper submission <http://www.journals.elsevier.com/pattern-recognition/>. When submitting an article to the SI, please select VSI:AMDO as the article type

Important dates:

Submission system starts receiving submissions:	November, 15th, 2016
Paper submission deadline:	December, 15th, 2016
Acceptance/rejection notification:	April, 1st, 2017
Paper publication:	September, 15th, 2017

Guest editors:

Josef Kittler, Univ. of Surrey, UK, j.kittler@surrey.ac.uk

Francisco Perales, Univ. Illes Balears, paco.perales@uib.es

Sergio Escalera, Computer Vision Center and Univ. of Barcelona, ChaLearn, sergio@maia.ub.es