

Accepted Manuscript

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PII: S0031-3203(18)30047-5
DOI: [10.1016/j.patcog.2018.01.038](https://doi.org/10.1016/j.patcog.2018.01.038)
Reference: PR 6447

To appear in: *Pattern Recognition*



Please cite this article as: Jun Wan, Sergio Escalera, Francisco J. Perales, Josef Kittler, Articulated Motion and Deformable Objects, *Pattern Recognition* (2018), doi: [10.1016/j.patcog.2018.01.038](https://doi.org/10.1016/j.patcog.2018.01.038)

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Articulated Motion and Deformable Objects

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Abstract

This guest editorial introduces the twenty papers accepted for this Special Issue on Articulated Motion and Deformable Objects (AMDO). They are grouped into four main categories within the field of AMDO: human motion analysis (action/gesture), human pose estimation, deformable shape segmentation, and face analysis. For each of the four topics, a survey of the recent developments in the field is presented. The accepted papers are briefly introduced in the context of this survey. They contribute novel methods, algorithms with improved performance as measured on benchmarking datasets, as well as two new datasets for hand action detection and human posture analysis. The special issue should be of high relevance to the reader interested in AMDO recognition and promote future research directions in the field.

Keywords: Articulated Motion and Deformable Objects, Pose Estimation, Action recognition, Gesture recognition, Face Analysis.

1. Introduction

Articulated motion and deformable objects (AMDO) is a challenging research area which focuses on the automatic analysis of complex objects, such as the human body, exhibiting high variabilities both in terms of spatial and temporal dimensions. AMDO is of high interest in the fields of pattern recog-

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