

VISUAL 2016

The First International Conference on Applications and Systems of Visual Paradigms

November 13 - 17, 2016

Barcelona, Spain

VISUAL 2016 Editors

Vijayan Asari, University of Dayton, USA

Claus-Peter Rückemann, Leibniz Universität Hannover / Westfälische Wilhelms-Universität Münster / North-German Supercomputing Alliance (HLRN), Germany

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (4238) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. *4238)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

Ontology-Based Modelling of Sensor and Data Processing Ressources Using OWL Denis Smirnov and Peter Stutz	1
Selecting Adequate Aerial Perceptual Functions with Fuzzy Logic Christian Hellert and Peter Stutz	8
Local Edge/Corner Feature Integration for Illumination Invariant Face Recognition Almabrok Essa and Vijayan Asari	13
Approximating Imprecise Planar Tesselations with Voronoi Diagrams Narciso Javier Aguilera Centeno, Belen Palop del Rio, and Hebert Perez-Roses	19
Incremental Reconstruction of Moving Object Trajectory Muhammad Majid Afzal, Karim Ouazzane, Vassil Vassilev, and Yogesh Patel	24
A Fast Audiovisual Attention Model for Human Detection and Localization on a Companion Robot Remi Ratajczak, Denis Pellerin, Catherine Garbay, and Quentin Labourey	30
A Method of Object Identification Based on Sea Image Processing Jing Zhang, Shaoyan Rao, and Tianchi Zhang	36
Visual Public Protection Disaster Relief and Critical Infrastructure Aurel Machalek, Dominc Dunlop, Carlo Simon, and Ralf Hoben	41
Full Incremental Learning for Along Classification of Textual Images Vincent Poulain d'Andecy, Aurelie Joseph, and Saddok Kebairi	45
Enhanced Hash-based Intra Block Copy for HEVC Screen Content Coding using Sucessive Elimination Algorithm *Ilseung Kim and Jechang Jeong**	50
Research on Optimization Technology of Three Dimensional Model Jing Zhang, Bowen Li, and Tianchi Zhang	55