Special Issue on
Pattern Recognition Applications in
Computer Vision and Image Analysis

The special issue aims at pointing out the latest advances carried on by the research community in the field of Pattern Recognition Applications in Computer Vision and Image Analysis, through the selection of some of the best papers presented at the 5th Mexican Conference on Pattern Recognition (MCPR), which will take place in Querétaro, Mexico, from June 26-29 in 2013.

Besides extended versions of MCPR 2013 papers, the special issue will also include articles submitted by researchers not necessarily attending MCPR 2013 as the result of an open call. Currently, there is an important trend toward the exploitation of the data generated by an increasing number of sources, or the so-called big data problem. This is particularly the case in the fields of pattern recognition and computer vision, especially when dealing with real applications involving 3D images or sequences of large size 2D images. In this situation, it has been suggested that a tradeoff could be established between the complexity of the model and the data available.

That is, the hypothesis is that one could envision simple algorithms to profit the enormous amount of information and the computing speed now available. The promise is to simply detect instances without the need to build sophisticated models. However, this view has not passed by without criticism, as it seems that we are shifting away from understanding the fundamentals. This special issue intends to shed light in this controversial topic by focusing on important applications of novel pattern recognition techniques, particularly in the areas of computer vision and image analysis.

Potential contributors to the special issue are encouraged to submit original works that have not been simultaneously submitted or previously published in other journals. In particular, authors of extended versions of MCPR 2013 papers are requested to include a relevant amount of novelty in their special issue submissions.

Topics of interest include, but are not limited to: Artificial Intelligent Techniques and Recognition; Bioinformatics; Computer Vision; Data Mining; Discrete Geometry; Document Processing and Recognition; Fuzzy and Hybrid Techniques in Pattern Recognition; Image Coding, Processing and Analysis; Industrial and Medical Applications of Pattern Recognition; Logical Combinatorial Pattern Recognition; Mathematical Morphology; Multi-sensor Data Fusion; Natural Language Processing and Recognition; Neural Networks; Neural Networks and Associative Memories; Parallel and Distributed Pattern Recognition; Pattern Recognition Principles; Robotics and Remote Sensing Applications of Pattern Recognition; Shape and Texture Analysis; Signal Processing and Analysis; Special Hardware Architectures; Statistical & Structural Pattern Recognition; Voice and Speech Recognition.

Important Dates:

Submission deadline: (November 30, 2013) extended to December 30, 2013.
Notification to the Authors of the first Reviewing Round: January 30, 2014.
Submission of the revised papers: March 15, 2014.
Notification to the Authors of the second Reviewing Round: May 15, 2014.
Submission of the re-revised papers: June 15, 2014.
Final notification to Authors: July 30, 2014.
Publication of the Special Issue: the first date available after July 30, 2014.

Guest Editors

Francisco Martínez INAOE, México
fmartine@ccc.inaoep.mx

Ariel Carrasco INAOE, México
ariel@ccc.inaoep.mx

Joaquín Salas IPN, México
jsalasr@ipn.mx

Gabriella Sanniti di Baja CNR, Italy
g.sannitidibaja@cib.na.cnr.it