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Editorial

Imaging, Vision, and Pattern Recognition

Mourad Zaied , ¹ Imed Bouchrika, ² Anil Kumar, ³ Fouad Slimane, ⁴ and Ridha Ejbali ⁵

- ¹University of Gabès, Gabès, Tunisia
- ²University of Souk Ahras Mohamed Chérif Messaadia, Souk Ahras, Algeria
- ³Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, India
- ⁴Swiss Federal Institute of Technology in Lausanne, Lausanne, Switzerland

Correspondence should be addressed to Mourad Zaied; mourad.zaied@ieee.org

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Pattern recognition, machine vision, and imaging are a set of techniques and methods belonging to machine learning. They focus on approach linked to recognition of patterns, regularities in data, computer vision, and image processing. Pattern recognition, machine vision, and imaging share other topics such as artificial intelligence and learning techniques.

Moreover, signal processing is a fundamental domain based on several techniques which encompasses the fundamental theory, applications, algorithms, and implementation of processing or transferring information. It uses mathematical, statistical, and computational representations and formalisms for representation, modeling, analysis, and synthesis of data.

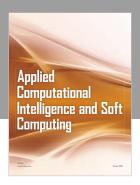
This special issue is dedicated to latest developments in the area of machine learning methods. The target audiences were researchers in machine learning and computational intelligence applied to image processing, signal processing, biomedical system, and security of the environment. After a strict review, seven articles from researchers around the world were finally accepted. In one paper, A. Helwan and D. U. Ozsahin proposed an approach based on a sliding window based machine learning system for the left ventricle localisation in MR cardiac images. In another paper, L. Duan et al. proposed a deep hashing based fusing index method for large-scale image retrieval. In one of the papers, H. Pan et al. proposed a regular k-shrinkage thresholding operator for the removal of mixed Gaussian-impulse noise. In another paper, X. Sun et al. proposed a color image denoising based on guided filter and adaptive wavelet threshold. In one paper, N. Nematzadeh and D. M. W. Powers proposed local and global perception from multiple scales to multiscale. Y. Liang et al. proposed multifeature and neighbor based salient region detection for social images. In another one, W. Chinsatit and T. Saitoh proposed CNN-based pupil center detection for wearable gaze estimation system.

Acknowledgments

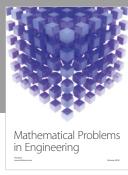
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> Mourad Zaied Imed Bouchrika Anil Kumar Fouad Slimane Ridha Ejbali

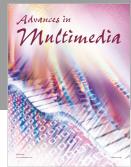
⁵Faculty of Sciences of Gabès, Gabès, Tunisia

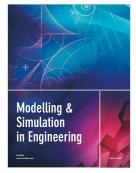


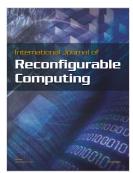














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