



Evolutionary Intelligence

Editor-in-Chief: Vincenzo Loia

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Evolutionary Intelligence (EVIN <http://www.springer.com/journal/12065/>).

Special Issue on

Nature inspired algorithms for high performance computing in computer vision

Overview:

Computer vision is concerned with the automatic extraction, analysis and understanding of useful information from a single image or a sequence of images. It involves the development of theoretical and algorithmic basis to achieve automatic visual understanding. Accordingly, various algorithms and approaches have been developed to handle the various issues of computer vision, including fundamentals of image formation, camera imaging geometry, feature detection and matching, stereo, motion estimation and tracking, image classification, scene understanding, and deep learning with neural networks.

This special issue aims to include the nature inspired algorithms to optimize the high performance computing scenarios, techniques, methods and algorithms in image and video sequences. It plans to cover various aspects of computer vision and the perspectives of addressing them by researchers of both academia and industry. Authors are invited to submit original and unpublished submissions that exploit nature inspired algorithm for various issues of high performance computing in computer vision.

Topics:

Topics of interest are limited to:

- * De-noising and Segmentation
- * Retrieval and behaviour analysis
- * Activity recognition
- * Food image recognition
- * Video objet tracking
- * Video based learning
- * Video Watermarking
- * Image forgery analysis
- * Identification and recognition of disease in medical image
- * Biometric identification and recognition

The above topics may include the following nature inspired algorithm to solve the issue.

- * Genetic algorithm
- * PSO algorithm
- * Memetic algorithm
- * Cuckoo search
- * Whale optimization
- * Fruitfly algorithm
- * Grey wolf optimization
- * Gravitational Search Algorithm
- * Group Search Optimization
- * Artificial Bee colony
- * Harmony search algorithm
- * Lion optimization
- * Dolphin echolocation
- * Brain storm optimization
- * Crow search algorithm
- * Penguins Search Optimization Algorithm
- * Backtracking Search Optimization

Submission guidelines:

Research articles must not have been published or submitted for publication elsewhere. All articles will be peer reviewed and accepted based on quality, originality, novelty, and relevance to the special issue theme. Before submission authors should carefully read the journal's Author Guidelines before which are located at <https://www.editorialmanager.com/evin/default.aspx>

Please select the special issue “**Nature inspired algorithms**” for your submission. All submissions will undergo initial screening by the guest editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

Schedule:

Submission of manuscript: April 30, 2018
First notification: May 30, 2018
Submission of revised manuscript: June 15, 2018
Notification of the re-review: June 28, 2018
Final notification: July 15, 2018
Final paper due: August 30, 2018
Publication date: to be scheduled in late 2018 early 2019

Guest Editor:

Dr.Poonam Yadav

D.A.V College of Engineering & Technology,
Kanina, Haryana 123027, India

poonam.y2002@gmail.com



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