



## CALL FOR PAPERS

### Multimedia Tools and Applications, SPRINGER

URL: <http://www.springer.com/computer/information+systems+and+applications/journal/11042>

#### SPECIAL ISSUE ON “Soft computing Techniques and Applications for Intelligent Multimedia Systems”

#### AIMS & SCOPE:

In the recent times, the rapid development of social networks and multimedia technologies has delivered high Quality of Experience to the users globally. However, with the massive increase in the number of social network users, the demands for the sharing and exchange of multimedia content between users are ever-increasing. Therefore, the huge need for the research on multimedia analytics and development of efficient approaches to handle online multimedia content is high. Multimedia is increasingly becoming the most important and valuable source of insights and information from social networks, and it covers from everyone’s experiences to everything happening in the world. The huge volume of multimedia big data from social networks makes the traditional multimedia handling systems inefficient and spurs towards the development of new technologies for handling multimedia big data.

Soft computing techniques are delivering promising solutions to the complex research problems and make innovations at a rapid pace. As soft computing differs from traditional computing approaches, it is tolerant towards uncertainty, imprecision, and approximation. Inspired by the human mind model, soft computing is applied to the various research problems and has been proven to be proficient with the experimental performances. This special Issue will report the recent increasing interests in the design and development of Soft computing techniques for various applications of intelligent multimedia systems. Moreover, the authors are expected to investigate state-of-art research issues, architectures, applications and achievements in the field of multimedia big data. Unpublished innovative papers which are not currently under review to another journal or conference are solicited in the following relevant areas.

#### Topics of interest include, but are not limited to:

- Data management and knowledge representation for multimedia data
- Algorithms, models, and designs for social multimedia analytics
- Machine learning for high-performance computing with multimedia big data
- User activities recognition for multimedia systems
- Web applications for multimedia big data
- Soft computing model for multimedia assisted prediction
- Pattern and feature learning in multimedia big data
- Nature-Inspired algorithms for multimedia systems
- Efficient inference methods for mobile multimedia deep networks

- Learning for ranking and recommendation on multimedia big data
- Semi-supervised learning problems in multimedia big data applications
- Deep neural networks for multimedia big data analysis and understanding
- Robotics, intelligent system and advanced manufacturing with multimedia big data
- Novel and incentive applications of multimedia big data in various fields
- Other soft computing topics for emerging multimedia applications

**Submission deadline: [April 15, 2018](#)**

### **Submission guidelines:**

The authors should prepare their manuscript following the formatting guidelines set out by Multimedia Tools and Applications that can be found at “Instructions for Authors” (<http://www.springer.com/computer/information+systems+and+applications/journal/11042>).

All manuscripts should be submitted online at <https://www.editorialmanager.com/mtap/> and the authors should select “**1110 - Soft computing Techniques and Applications**”, when they reach the “Article type” step in the submission process. Submitted papers should present original, unpublished work, relevant to one of the topics of the Special Issue.

All submitted papers will be evaluated on the basis of relevance, significance of contribution, technical quality, scholarship, and quality of presentation, by at least three independent reviewers following the MTAP reviewing procedures.. It is the policy of the journal that no submission, or substantially overlapping submission, be published or be under review at another journal or conference at any time during the review process. For further query or inquiries, please contact the corresponding Guest Editor Dr. Vijayakumar V. (see contact details below).

### **Guest Editors:**

Dr. Vijayakumar V., Email: [vijayakumar.v@vit.ac.in](mailto:vijayakumar.v@vit.ac.in)

Corresponding Guest Editor

School of Computing Sciences and Engineering, VIT University, India

Dr. Subramaniaswamy V., Email: [vsubramaniaswamy@gmail.com](mailto:vsubramaniaswamy@gmail.com)

School of Computing, SASTRA University, India

Dr. Jemal Abawajy, Email: [jemal.abawajy@deakin.edu.au](mailto:jemal.abawajy@deakin.edu.au)

School of Information technology, Deakin University, Australia

Dr. Longzhi Yang, Email: [longzhi.yang@northumbria.ac.uk](mailto:longzhi.yang@northumbria.ac.uk)

Department of Computer and Information Sciences, Northumbria University, UK



<http://www.springer.com/journal/11042>

Multimedia Tools and Applications

An International Journal

Editor-in-Chief: Furht, B.

ISSN: 1380-7501 (print version)

ISSN: 1573-7721 (electronic version)

Journal no. 11042