

## **Special issues on Affective and Sentimental Computing in International Journal of Machine Learning and Cybernetics**

As the rapid growth of user-generated data from social networks, wikis and social tagging systems, it is necessary to understand the high-level semantics and user subjective perceptions from such a large volume of data. Emotions or sentiments are one of the most important aspects as the user-generated data are always with emotional loads of their creators. Along with the development of the computational techniques for sentiment analysis and opinion mining, the increasing psychological and cognitive models/theories are exploited for modeling sentiments and emotions by incorporating with social computing techniques such as social network and personalization, mining user reviews, user profiling in social network and so on. Connecting affective/sentimental models and social computing techniques not only can facilitate the understanding big data in at semantic-levels but also improve the performance of various social computing applications in the big data era. It combines affective/sentimental models with social computing as a promising direction and offers opportunities for developing novel algorithms, methods and tools.

This special issue aims to capture the recent progresses by the academia, researchers, and industrial practitioners from computer science, information systems, psychology, behavior science, and organization science discipline, and provide a forum for recent advances in the field of sentiment analysis, affective computing, emotion detections, and opinion mining from the perspectives of various computing techniques.

Topics of interest include, but are not limited to the exploitation of the affective/sentimental models from psychology and cognitive sciences for big data, the identification of emotions/sentiments underlying big data for efficient algorithms for big data management, and the application of affective/sentimental models with social computing techniques in research fields related to (but not limited):

- Sentiment identification & classification
- Emotion identification & classification
- Opinion and sentiment summarization
- Sentiment analysis for social media
- Affective computing for social media
- Time evolving sentiment & emotion analysis
- Knowledge management for affective computing
- Concept-level sentiment analysis
- Social media and social network analysis
- Affective/Sentimental computing for e-learning
- Affective/Sentimental computing for financial data mining
- Affective/Sentimental computing for e-commerce
- Natural language processing techniques for affective computing
- Social ranking
- Social network analysis

- Social tagging analysis
- Affective/Sentimental computing for user modeling
- Data mining algorithms for affective computing
- Big social data analysis
- Information fusion for affective computing

### **Paper Submission**

Authors should follow the instructions given at the International Journal of Machine Learning and Cybernetics website:

<http://www.springer.com/engineering/computational+intelligence+and+complexity/journal/13042>

### **Important Date**

March 1, 2017: Due date for full papers submission

May 1, 2017: Notification of paper to authors

June 1, 2017: 1st paper revision due

July 1, 2017: Notification of acceptance

### **Guest Editors**

Haoran Xie, The Education University of Hong Kong, Hong Kong

Tak-Lam Wong, The Education University of Hong Kong, Hong Kong

Fu Lee Wang, Caritas Institute of Higher Education, Hong Kong

Raymond Wong, University of New South Wales, Australia

Xiaohui Tao, University of Southern Queensland, Australia

Ran Wang, Shenzhen University, China

### **Short Bio of Guest Editors**

**Dr. Haoran Xie** is an Assistant Professor in the Department of Mathematics and Information Technology at The Education University of Hong Kong. He has obtained his PhD and MSc from City University of Hong Kong, and BEng from Beijing University of Technology. His research mainly focuses on social media, big data, educational technology, and data mining in interdisciplinary applications. He has published around 60 papers in many prestigious international journals and conferences including IEEE Multimedia, Intelligent Systems, Knowledge-Based Systems, Neural Networks, DASFAA, UMAP, BIGCOMP and WISE. He serves as a guest editor of Neurocomputing, International Journal of Distance Learning Technologies, Journal of Innovation and Learning, and Web Intelligent Journal. He is currently a co-chair of SeCoP 2015, IWUM 2015, SETE 2016, and the Media chair of IEEE U-Media 2010, WISE 2010 and ICWL 2010. He also serves as a member of many international organizations such as ACM, IEEE and EUROCALL.

**Dr. Tak-Lam Wong** is an Assistant Professor/Associate Head in the Department of Mathematics and Information Technology at The Education University of Hong Kong. He received B.Eng., M.Phil., Ph.D. in Systems Engineering and Engineering Management (specialized in Information Systems) from the Chinese University of Hong Kong. His research interests lie in the areas of Web mining, data mining, information extraction, machine learning, and knowledge management. He has published around 100 papers in top-tier journals and conferences such as PAMI, TOIS, TKDE, TWEB, and SIGIR, CIKM, WSDM. He serves as a guest editor of International Journal of Distance Learning Technologies and Journal of Innovation and Learning.

**Prof. Fu Lee Wang** is a Professor and Vice-President (Research and Advancement) in Caritas Institute of Higher Education. He received BEng and MPhil from The University of Hong Kong,

MSc from The Hong Kong University of Science and Technology, MBA from Imperial College London, and PhD from The Chinese University of Hong Kong. His research interests include electronic business, information retrieval, information systems and e-learning. Before joining Caritas, he was a faculty member at the City University of Hong Kong. He has published over 100 papers in international journal and conferences, including Journal of the American Society for Information Science and Technology (JASIST), Decision Support Systems (DSS), Information Processing Letters, IW3C, SIGIR, and more. He has edited 20 books. He is Past Chair of ACM Hong Kong Chapter and Chair of IEEE Hong Kong Section Computer Society Chapter. He served as programme/conference chair of a number of international conferences.

**Dr. Raymond Wong** is an Associate Professor at the School of Computer Science and Engineering, UNSW. During 2007-2010, He worked at NICTA. He is still collaborating with NICTA and involved in its spin-out company Cohesive Data Inc. He is also a regular Visiting Professor at Tsinghua University, Beijing. He received his BSc from ANU, MPhil and PhD from HKUST. He held the Sir Edward Youde Graduate Fellowship. After his PhD, he was a postdoc at Stanford University and visiting scholar at UCLA. Before joined UNSW, he worked at the computer science departments of the following universities: HKUST, Chinese University of Hong Kong, Macquarie University, and then University of Sydney.

**Dr. Xiaohui Tao** is a Senior Lecturer in Faculty of Health, Engineering and Sciences, University of Southern Queensland (USQ), Australia. Before joined USQ, he was a Research Associate with the e-Discovery Lab, Faculty of Science and Technology at Queensland University of Technology (QUT), Australia, and completed PhD in QUT as well. His research interests include Information Retrieval, Text Mining, and Knowledge Engineering.

**Dr. Ran Wang** is an Assistant Professor in the College of Mathematics and Statistics at Shenzhen University, China. She received her B.Eng. degree in computer science from Beijing Forestry University, and the Ph.D. degree in computer science from City University of Hong Kong. From 2014 to 2016, she was a postdoc at City University of Hong Kong. Her research mainly focuses on pattern recognition, machine learning, fuzzy sets and fuzzy logic, and their related applications. She has published around 40 papers in many international journals and conferences including IEEE TFS, IEEE TSMCB, IEEE TEC, Pattern Recognition, Information Sciences, Fuzzy Sets and Systems, etc. She has served as an organization committee member of ICMLC 2010~2014. She also serves as a member of IEEE.



<http://www.springer.com/journal/13042>

International Journal of Machine Learning and  
Cybernetics

Editors-in-Chief: Wang, X.-Z.; Yeung, D.S.

ISSN: 1868-8071 (print version)

ISSN: 1868-808X (electronic version)

Journal no. 13042