



International Journal of Computational Intelligence Systems

Special Issue Proposal

Special Issue Proposal Form

Title: Intelligent Systems Based on Data Driven Learning
Guest Editors: Wencai Du, Simon Xu and Kailong Zhang

Aims and Scope

The special issue will provide state-of-the-art research in the field of intelligent systems based on data driven learning, which has been becoming on vital foundation for intelligent computing with the rapid development of information technologies, such as big data, cloud computing etc., and the breakthrough of several data-driven pivotal methods, for example data mining, deep training/learning, and so on. This issue will mainly (but not limited to) concern several new developments about models, mechanisms, design and verification methods, and also, creative applications in this particular area of intelligent computing.

Relevance to the Journal

As well-known, data driven learning is one important rising research topic of computing intelligence. So, the aims of this special issue aforementioned are well consistent with the requirement of this journal that covers state-of-the-art research and development in all aspects of applied computational intelligence. And the scope of this issue is also belonged to this journal, focusing on the research based on one main method—data driven learning, and including learning models, mathematic methods, intelligent mechanisms, application-related design and verification, and so on. Additionally, the issue will collect papers, 8-10 at most, on methods, methodologies and tools for the development of intelligent systems based on data driven learning.

Main Topics

The special issue will include best papers selected from the following conferences to be held in summer, 2018, in addition to a public call:

1. 17th *IEEE/ACIS International Conference on Computer and Information Science (ICIS 2018)*, June 6-8, 2018, Singapore
2. 19th *IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2018)*, June 27–29, 2018, Busan, Korea
3. 16th *IEEE/ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2018)*, June 13–15, 2018, Kunming, China
4. 6th *International Conference on Applied Computing & Information Technology (ACIT 2018)*, June 13-15, 2018, Kunming, China
5. 5th *International Conference on Computational Science/ Intelligence & Applied Informatics (CSII 2018)*, July 10–12, 2018, Yonago, Japan

Revised on 2/13/2018

6. 3rd *International Conference on Big Data, Cloud Computing, and Data Science* (BCD 2018), July 10–12, 2018, Yonago, Japan

The topics of these conferences are quite diverse but the guest editors will select papers in the areas of this special issue, with a special emphasis in *Computational Intelligence Based on Data Driven Learning*, including:

- Artificial intelligence & Application
- DNA computing
- Particle swarm intelligence computing
- Evolutionary computations
- Ant system computation
- Fuzzy computing
- Immune computing
- Artificial life
- Data mining
- Big data technology & application
- Deep learning & application
- Learning models
- Decision Optimization
- Design and verification methods
- Intelligent Robots and Application
- Intelligent IoT

Quality Control

The paper selection will follow these procedures:

1. Best papers are recommended by the conference chairs and program committee members.
2. A public call-for-papers for this special issue will also be announced to solicit additional papers.
3. The guest editors will screen the recommended papers based their quality (originality, innovation, clarity, etc.)
4. Authors will be asked to extend and revise their papers to have at least 40% new materials for journal submission.
5. Each submission will be reviewed by at least two experts in the area of the paper.
6. The guest editors will make decision for recommendations of accept/reject the papers.
7. The guest editors will forward the recommendations to the Editor-in-Chief of the journal for final decisions.
8. Authors of accepted papers will submit their final manuscript online to IJCIS.

Important Dates

Submission of papers:	August 20, 2018
Notification of review results:	Sept 31, 2018
Submission of revised papers:	Dec 31, 2018
Notification of acceptance:	January 31, 2019
Online submission:	February 28, 2019

Special issue:

May 2019

Short Bio of Guest Editors

Wencai Du received the B.Sc. from Peking University, China, two Master Degrees from Twente University, The Netherlands and Hohai University, China, respectively, the PhD degree from South Australia University, Australia, and Post-doct fellow in Israel Institute of Technology, Haifa, Israel. He is a professor of ITC, working in Hainan University and City University of Macau. His research interests span the areas of computer science and communication engineering. He is especially interested in the computer networking, service computing, and smart business. He has published more than 200 articles and twenty-five books.

Simon Xu is the department chair and a professor of Computer Science at Algoma University, Canada. He received his Ph.D. degrees from Wayne State University, USA and University of Liege, Belgium. His research interests include intelligent computing, software evolution, program comprehension and cognitive process during software development. Dr. Xu has published more than 80 articles in referred journals and conference proceedings and a few authored/co-authored books. He has also chaired a few international conferences and has been invited to give talks by international conferences. Dr. Xu is a senior member of IEEE and a member of ACM.

Kailong Zhang is an associate professor in School of Computer Science and Technology, Northwestern Polytechnical University (NPU), China. Dr. Zhang obtained his MS degree and PhD degree in 2003 and 2009, respectively. From 2012 to 2014, Dr. Zhang was a post-doctoral with the CyberCars program of the Center of Robotics in Mines ParisTech, Paris, France. He has been the director of “NPU-MINES ParisTech Joint lab of Robot and Swarm Intelligent Systems” in NPU since 2017. His main research interest is intelligent computing. He has published more than 60 academic papers on international journals and conferences. Dr. Zhang is a member of IEEE and ACM.