

**Title:**

Advances in Computational Intelligence.

Abstract:

Computational intelligence (CI) is the theory, design, application and development of biologically and linguistically motivated computational paradigms, which makes a machine to learn the ability to perform any intellectual task as a human being. CI plays a major role in developing successful intelligent systems and contains a series of computational methodologies to address the real-world problems, which has been applied and achieved huge successes in various domains, including data analysis, natural language processing, bioinformatics, image processing, etc.. The development of CI is expected to further promote the above fields.

This workshop aims to present and highlight the latest findings, novel ideas, developments and emerging research in computational intelligence. Research on soft computing, machine learning, neural network, data mining, knowledge engineering, intelligent systems, evolutionary computation, learning theory and their applications in various domains are welcomed..

Scope and Topics:

Potential topics include but are not limited to:

- ✧ Soft computing
- ✧ Machine learning
- ✧ Data mining
- ✧ Neural network
- ✧ Knowledge engineering and intelligent systems
- ✧ Evolutionary computation
- ✧ Learning theory and its applications
- ✧ Natural language processing
- ✧ Recommender systems
- ✧ Computational biology and bioinformatics
- ✧ Medical informatics
- ✧ Information security
- ✧ Image processing

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Wenpeng Lu received a Ph.D. degree in computer science from Beijing Institute of Technology, Beijing, China, in 2014. He is currently a Professor with Qilu University of Technology, Jinan, China. He has been the visiting researcher in University of



Technology Sydney from Oct. 2016 to Oct. 2017. He has published more than 20 high-quality papers and is authorized 2 Australia patent and 12 Chinese patents. His research interests include natural language processing, artificial intelligence, and big data analytics.

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Jinyong Cheng received the M.S. degree in computer software and theory from the Qingdao University, Qingdao, China, in 2005. He is currently an Associate Professor of the School of Computer Science and Technology, Qilu University of Technology. His research interests include artificial intelligence, image processing, and biomedical information processing. Until now, he has published more than 20 papers in conferences and journals.

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Shoujin Wang has been working as a research fellow at the department of computing, Macquarie University, Sydney, Australia. Prior to joining Macquaire, Shoujin obtained his PhD in data science from University of Technology Sydney in 2018. His main research interests include data mining, machine learning and recommender systems. He has published more than 30 research papers and most of them were published at CORE Rank A*/A conferences or journals and JCR Q1 journals. Typical publication venues include premier AI conferences such as IJCAI, AAAI, ECML-PKDD and prestigious journals such as ACM Computing Surveys (CSUR), IEEE Transactions on Systems, Man, and Cybernetics: Systems and also has served as a PC at international conferences including AAAI, IJCAI, PAKDD and a reviewer for prestigious journals including machine learning, IEEE intelligent systems, IEEE transactions on Cybernetics.

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