

## EDITORIAL PREFACE

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IJCINI Vol. 8, No. 3 is a regular issue on cognitive Informatics, abstract intelligence, neural informatics, and cognitive computing. This issue encompasses four research papers on: a) An Energy Computing Method Inspired from Visual Cognitive Function for Dynamic Behavioural Detection in Video Frames; b) Covert Visual Search: Revisiting the Guided Search; c) Big Data Analytics on the Characteristic Equilibrium of Collective Opinions in Social Networks; d) A Chaotic Complexity Measure for Cognitive Machine Classification of Cyber-attacks on Computer Networks; e) A Formal Model for Metacognitive Reasoning in Intelligent Systems.

The Editor-in-Chief would like to report that the *2014 IEEE 13th International Conference on Cognitive Informatics and Cognitive Computing (ICCI\*CC'14)* has been held in London, UK during August 18-20, 2014. Over the last decade, CI and CC have been established as an exciting research field, which has already created and attracted millions of entries over the Internet and related research communities. The *2015 IEEE 14th International Conference on Cognitive Informatics and Cognitive Computing (ICCI\*CC'15)* will be held at Tsinghua University, Beijing, China in July 6-8, 2015. The theme of ICCI\*CC'15 will be on "*Cognitive Computing and Cognitive Communications.*" The ICCI\*CC series is fully sponsored by the IEEE Computer Society, IEEE Computational

Intelligence Society, and ICIC (<http://www.ucalgary.ca/icic/>).

IJCINI has been indexed in EI, DBLP, PsycINFO, CSA Illumina, CORE, RG, and Google Scholar. IJCINI is well recognized as a flagship journal in the fields of computing, artificial intelligence, and computational intelligence, as well as psychology, cognitive science, and brain science. A number of special issues in IJCINI will be organized on *cognitive computing*, *neurocomputing*, and *computational intelligence*. Submissions to these special issues in particular, and/or to the regular issues in general, are welcome.

The Editor-in-Chief would expect that readers of *the International Journal of Cognitive Informatics and Natural Intelligence (IJCINI)* will benefit from the papers presented in this issue in order to aware the recent advances in this field. The EIC would like to thank the authors, members of the board of editors, and invited reviewers for their great contributions to this issue. The EIC would like to acknowledge the publisher of IJSSCI, Ideal Group Global (IGI) Publishing, USA, and the editorial staff for their excellent professional support.

*Yingxu Wang*  
*Editor-in-Chief*  
*IJCINI*

*Yingxu Wang is professor of cognitive computing, brain science, and denotational mathematics, President of International Institute of Cognitive Informatics and Cognitive Computing (ICIC, <http://www.ucalgary.ca/icic/>) at the University of Calgary. He is a Fellow of ICIC, a Fellow of WIF (UK), a P.Eng of Canada, and a Senior Member of IEEE and ACM. He was visiting professor (on sabbatical leave) at Oxford University (1995), Stanford University (2008), UC Berkeley (2008), and MIT (2012), respectively. He is the founder and steering committee chair of the annual IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI\*CC) since 2002. He is founding Editor-in-Chief of Int. Journal of Cognitive Informatics & Natural Intelligence (IJCINI), founding Editor-in-Chief of Int. Journal of Software Science & Computational Intelligence (IJSSCI), Associate Editor of IEEE Trans. on SMC (Systems), and Editor-in-Chief of Journal of Advanced Mathematics & Applications (JAMA). Dr. Wang is the initiator of a few cutting-edge research fields such as cognitive informatics, denotational mathematics (concept algebra, process algebra, system algebra, semantic algebra, inference algebra, big data algebra, and fuzzy truth algebra), abstract intelligence (aI), cognitive computing, cognitive learning engines, cognitive knowledge base theory, and basic studies in software science, neuroinformatics, fuzzy mathematics, cognitive linguistics, and computational intelligence. He has published 400+ peer reviewed papers and 28 books in cognitive informatics, denotational mathematics, cognitive computing, software science, and computational intelligence. He has presented 25 invited keynote speeches in international conferences. He is the recipient of dozens international awards on academic leadership, outstanding contributions, best papers, and teaching in the last three decades. He is the top popular scholar and the author of top publications at University of Calgary according to RG stats in 2014 and 2015.*