EDITORIAL PREFACE

Yingxu Wang, University of Calgary, Calgary, Canada

IJSSCI Vol. 6, No. 1 is a regular issue on cognitive computing, software science, and computational intelligence. This issue includes five research papers on: 1) Evaluation Model of Cognitive Distraction State Based on Eye-Tracking Data using Neural Networks; 2) Toward an Agent Framework that Assists the Individuals with Mild Memory Impairment; 3) Simulation and Visualization of Concept Algebra in MATLAB; 4) A Rule Based Approach for Japanese-Uighur Machine Translation System; and 5) Cognitive Process of Moral Decision Making for Autonomous Agents.

The Editor-in-Chief would like to take this opportunity to report that the *International Institute of Cognitive Informatics and Cognitive Computing* (ICIC) has formally established (http://www.ucalgary.ca/icic/), which is hosted at University of Calgary, Canada with Prof. Yingxu Wang as the founding president. Key member organizations include Brown University, University of California (Berkeley), University of Calgary, Fudan University, Kyoto University, MIT, University of Rome, Stanford University, University of Toronto, Tsinghua University, and University of Vienna. The *2013 IEEE 12th International Conference on Cognitive Informatics and Cognitive Computing* (ICCI*CC'12) has been held in New York City, USA during July 16-18, 2013. 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 *2014 IEEE 13th International Conference on Cognitive Informatics and Cognitive Computing* (ICCI*CC'14) will be held in London, UK in August, 2014. The theme of ICCI*CC'14 will be on "*Intelligence Revolution*". The ICCI*CC series is fully sponsored by the IEEE Computer Society, IEEE Computational Intelligence Society, and ICIC.

IJSSCI has been indexed in EI, Google Scholar, DBLP, and RG on research papers published in the emerging fields of software science, theoretical software engineering, computational intelligence, and cognitive computing. A number of special issues in IJSSCI will be organized on *cognitive computing*, *computational intelligence*, *software science*, and *theoretical foundations of software engineering*. Submissions to these special issues in particular, and/or to the regular issues of IJSSCI in general, are welcome.

The Editor-in-Chief would expect that readers of *the International Journal of Software Science and Computational Intelligence* (IJSSCI) 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
IJSSCI

Yingxu Wang is professor of cognitive informatics and software science, President of International Institute of Cognitive Informatics and Cognitive Computing (ICIC, www.ucalgary.ca/icic/), Director of Laboratory for Cognitive Informatics and Cognitive Computing, and Laboratory for Denotational Mathematics and Software Science at the University of Calgary. He is a Fellow of WIF (UK), a Fellow of ICIC, a P.Eng of Canada, and a Senior Member of IEEE and ACM. He received a PhD in Computer Science from the Nottingham Trent University, UK, and a BSc in Electrical Engineering from Shanghai Tiedao University. He has industrial experience since 1972 and has been a full professor since 1994. He was a visiting professor on sabbatical leaves at Oxford University (1995), Stanford University (2008), University of California, 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). He is founding Editor-in-Chief of International Journal of Cognitive Informatics and Natural Intelligence (IJCINI), founding Editor-in-Chief of International Journal of Software Science and Computational Intelligence (IJSSCI), Associate Editor of IEEE Trans on System, Man, and Cybernetics - Systems, and Editor-in-Chief of Journal of Advanced Mathematics and Applications. Dr. Wang is the initiator of a few cutting-edge research fields such as cognitive informatics (CI, the theoretical framework of CI, neuroinformatics, the logical model of the brain (LMB), the layered reference model of the brain (LRMB), the cognitive model of brain informatics (CMBI), the mathematical model of consciousness, and the cognitive learning engine (CLE)); abstract intelligence; cognitive computing (cognitive computers, cognitive robots, cognitive agents, and the cognitive Internet); denotational mathematics (concept algebra, semantic algebra, behavioral process algebra, system algebra, inference algebra, granular algebra, and visual semantic algebra); software science (unified mathematical models and laws of software, cognitive complexity of software, automatic code generators, the coordinative work organization theory, and built-in tests (BITs)); basic studies in cognitive linguistics (such as the cognitive linguistic framework of languages, semantic algebra, formal semantics of languages, deductive grammar of English, and the cognitive complexity of text comprehension). He has published 400+ peer reviewed papers and 28 books in cognitive informatics, cognitive computing, software science, denotational mathematics, and computational intelligence. He is the recipient of dozens international awards on academic leadership, outstanding contributions, research achievement, best papers, and teaching in the last three decades.