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The latest developments in computer science, theoretical software engineering, cognitive science, cognitive informatics, and intelligence science, and the crystallization of accumulated knowledge by the fertilization of these areas, have led to the emergence of a transdisciplinary and convergence field known as software and intelligence sciences. International Journal of Software Science and Computational Intelligence (IJSSCI) is a transdisciplinary, archived, and rigorously refereed journal that publishes and disseminates cutting-edge research findings and technological developments in the emerging fields of software science and computational intelligence, as well as their engineering applications.

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- Cognitive informatics
- Denotational vs. analytic mathematics
- Formal description of cognitive processes
- Intelligent behavioral foundations of software
- Intelligent software engineering
- Mathematical foundations of software
- Transdisciplinary theories shared by software and intelligence science

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EDITOR-IN-CHIEF BIO
Yingxu Wang is professor of cognitive informatics and software science, President of International Institute of Cognitive Informatics and Cognitive Computing (ICIC), Director of Laboratory for Cognitive Informatics and Cognitive Computing, and Director of Laboratory for Denotational Mathematics and Software Science at the University of Calgary. He is a Fellow of WIF (UK), Fellow of ICIC, a P.Eng of Canada, a Senior Member of IEEE and ACM. He received a PhD in Software Engineering from the Nottingham Trent University, UK, and a BSc in Electrical Engineering from Shanghai Jiaotong University. He has industrial experience since 1972 and has been a full professor since 1994. He was a visiting professor on sabbatical leaves in the Computing Laboratory at Oxford University in 1985, Dept. of Computer Science at Stanford University in 2006, the Berkeley Initiative in Soft Computing (BISC) Lab at University of California, Berkeley in 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 (IJCIIN), founding Editor-in-Chief of International Journal of Software Science and Computational Intelligence (IJSSCI), Associate Editor of IEEE Trans on System, Man, and Cybernetics (Part A), and associate Editor-in-Chief of Journal of Advanced Mathematics and Applications.
Dr. Wang is the initiator of a few cutting-edge research fields or subject areas 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; Abstract Intelligence (alpha I); Cognitive Computing (such as cognitive computers, cognitive robots, cognitive agents, and cognitive internet); Denotational Mathematics (i.e., concept algebra, inference algebra, semantic algebra, real-time process algebra, system algebra, granular algebra, and visual semantic algebra); Software Science (on unified mathematical models and laws of software, cognitive complexity of software, and automatic code generators, the coordinative work organization theory, and built-in tests (BITs)); basic studies in Cognitive Linguistics (such as the cognitive linguistic framework, the deductive semantics of languages, deductive grammar of English, and the cognitive complexity of online text comprehension). He has published over 130 peer reviewed journal papers, 220+ peer reviewed conference papers, and 25 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.