

Web Intelligence Meets Brain Informatics

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Ning Zhong is head of Knowledge Information Systems Laboratory, and a professor in Department of Life Science and Informatics, Maebashi Institute of Technology, Japan. He received the Ph.D. degree in the interdisciplinary course on advanced science and technology from the University of Tokyo. His research interests include knowledge discovery and data mining, Web intelligence (WI), rough sets and granular-soft computing, intelligent agents and databases, brain-informatics, knowledge information systems, with more than 200 journal and conference publications, as well as more than 20 books. He is the editor-in-chief of the Web Intelligence and Agent Systems journal (IOS Press), and Annual Review of Intelligent Informatics (World Scientific), associate editor of IEEE Transactions on Knowledge and Data Engineering, and the Knowledge and Information Systems journal (Springer). Dr. Zhong is the co-founder and co-chair of Web Intelligence Consortium (WIC), the chair of the executive committee of the IEEE Computer Society Technical Committee on Intelligent Informatics (TCII), the vice chair of IEEE Computational Intelligence Society Technical Committee on Granular Computing, an advisory board member of ACM-SIGART, a steering committee member of IEEE International Conference on Data Mining (ICDM). Dr. Zhong has served or is currently serving on the program committees of over 110 international conferences and workshops, including program chair of PAKDD'99, WI-IAT'01, ICDM'06, etc., conference chair of ICDM'02, AMT'06, CIDM'07, etc. Dr. Zhong was awarded the 5th Advanced Automation Research Award from Association for Science and Technology Exchange of Japan-China, best paper awards of AMT'06, JSAI'03, SCI'01, two ACM's Recognition of Service Awards in 2002, and IEEE TCCI/ICDM Outstanding Service Award in 2004. Dr. Zhong is a senior member of IEEE, and a member of IPSJ, JSAI, IEEE-CS, IEEE-SMC, ACM, AAI, and IRSS.

Abstract

Recently, we gave a new perspective of Web Intelligence (WI) research from the viewpoint of Brain Informatics (BI), a new interdisciplinary field that studies the mechanisms of human information processing from both the macro and micro viewpoints by combining experimental cognitive neuroscience with advanced information technology. We argue that new instruments like fMRI and information technology will revolutionize both Web intelligence and brain science. This revolution will be bi-directional: new understanding of human intelligence through brain science will yield a new generation of Web intelligence research and development (i.e. BI for WI), and Web intelligence portal techniques will provide a powerful new platform for brain science (i.e. WI for BI). The ultimate goal is to establish the foundation of WI towards human-level Web intelligence. In this talk, we investigate how to make such a study successfully.

Welcome to the Talk!

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Site: Room 605, Yifu Building, Fudan University

Host: Research Center for Dataology and Datascience, School of Computer Science, Fudan University