The 2005 IEEE International Conference on Cognitive Informatics (ICCI’05) was held during August 8th to 10th 2005 on the campus of University of California, Irvine. This was the fourth conference of ICCI [Kinsner et al. 05]. The previous conferences were held at Calgary, Canada (ICCI’02) [Wang et al. 02], London, UK (ICCI’03) [Patel et al. 03], and Victoria, Canada (ICCI’04) [Chan et al. 04], respectively. ICCI’05 was organized by General Co-Chairs of Jeffrey Tsai (University of Illinois) and Yingxu Wang (University of Calgary), Program Co-Chairs of Du Zhang (California State University) and Witold Kinsner (University of Manitoba), and Organization Co-Chairs of Philip Sheu (University of California), Taehyung Wang (California State University, Northridge), and Shangping Ren (Illinois Institute of Technology).

Cognitive informatics (CI) is a cutting-edge and multidisciplinary research area that tackles the fundamental problems shared by modern informatics, computation, software engineering, AI, cybernetics, cognitive science,
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