EDITORIAL PREFACE

Special Issue on Semantic Computing

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IJSSCI 1(4) is a special issue on Semantic Computing. Semantic computing is an emerging computational methodology that models and implements computational structures and functions at semantic or conceptual level beyond that of symbolic data. Semantic computing is proposed by Philip Sheu in 2007 in line with Zadeh’s initiatives on computing with words and soft computing proposed in 1997 and 1998, respectively. Other related studies in this area are semantic networks by Thomason and Touretzky in 1990, semantic webs in 2007, and denotational mathematics by Wang in 2002 and 2008. It noteworthy that formal semantics developed in formal methods and computational linguistics also play an important role in semantic computing. Typical formal semantics are such as Axiomatic semantics (Hoare, 1969), Operational semantics (Wegner, 1972), Denotational semantics (Scott & Strachey, 1971), Algebraic semantics (Goguen et al., 1977), and Deductive semantics (Wang, 2006).


Commencing from IJSSCI 1(3), a special column on “Reports on Formal Software Design Models, Patterns, and Frameworks” is established with a series of selected papers and/or industrial project reports in software science and engineering. The report included in this issue is entitled: The Formal Design Model of a Lift Dispatching System (LDS).

The Editor-in-Chief would like to take this opportunity to report that, following the successful organization of the 7th IEEE International Conference on Cognitive Informatics (ICCI’08) at Stanford University in August 2008, ICCI’09 and ICCI’10 will be held at Hong Kong Polytechnic University in June 2009 and Tsinghua University, Beijing in June 2010, respectively. In addition, a number of special issues in IJSSCI will be organized on semantic computing, software science, and symbiotic computing. Submissions to these special issues in particular, and/or to the regular issues in general, are welcome.

The Editor-in-Chief expects that readers of the International Journal of Software Science and Computational Intelligence (IJSSCI) will benefit from the articles presented in this issue in order to aware the recent advances in this field. We would like to thank authors, members of the board of editors, and invited reviewers for their great contributions to this issue. I would like to acknowledge the publisher of IJSSCI, Ideal Group Global (IGI) Publishing, USA, and to thank Mehdi Khosrow-Pour (President of IGI), Jan Travers (Managing Director), Kristin M. Klinger (Managing Acquisitions Editor), and the editorial staff of IGI, Tyler Heath and Elizabeth C. Duke-Wilson, for their excellent professional support.