FOREWORD

Special Section on Knowledge Discovery, Data Mining and Creativity Support System

Welcome to the Special Section on Knowledge, Information and Creativity Support System, the IEICE Transactions on Information and Systems. While Information and Communication Technology (ICT) makes our living style more comfortable, there is a trend to apply ICT support higher or deeper process, including creativity works. At present, research and development in this field is still infant, slowly developed and needs more stimuli. It is necessary to study to find approaches to manage or process such large-scale data, information and knowledge, efficiently and effectively in order to obtain novel knowledge and then to support creativity. Moreover, so far the creativity point of view has not yet been stressed in terms of computer science and/or information technology. This area of interest will inevitably become one of the most important research issues in the near future. The topics in this special issue include knowledge acquisition, knowledge discovery and data mining, knowledge representation and knowledge exploitation.

After the call for papers for this Special Section, we received 14 submissions from several countries. The Editorial Committee worked out with difficulty to carefully reviewing and evaluating the submitted papers. After a thorough reviewing process, 9 papers are accepted for publication in this Special Section. Four papers involve medical knowledge management, two papers explore knowledge discovery and data mining, two papers are categorized as knowledge applications and intelligent user interfaces, and one paper is related to syntactic analysis.

The Guest Editors would like to express their sincere appreciation to all the authors for their efforts in preparing and submitting their excellent manuscripts, and to the reviewers for their professional and voluntary work. We also appreciate the editorial board of the IEICE Transactions on Information and Systems. Without their support, this special issue would not have been possible. Finally, we would like to express our appreciation for the large efforts of the Editorial Committee Members. Their names and affiliations are listed below.

Guest Editors:
Thanarak Theeramunkong (SIIT, Thammasat University, Thailand), International Guest Editor
Susumu Kunifuji (Japan Advanced Institute of Science and Technology, Japan)

Editorial Committee Secretary: Kritsada Sripaew (SIIT, Thammasat University)

Editorial Committee Members:
Virach Sornlertlamvanich (TCL, NICT and NECTEC, Thailand), Boonserm Kijsirikul (Chulalongkorn University, Thailand), Choochart Haruechaiyasak (NECTEC, Thailand), Cholwich Nattee (SIIT, Thammasat University, Thailand), David W.L. Cheung (The University of Hong Kong, Hong Kong), Ekawit Nantajeewarawat (SIIT, Thammasat University, Thailand), Hidehiko Hayashi (Naruto University of Education, Japan), Hieu Chi Dam (Japan Advanced Institute of Science and Technology, Japan), Hiroya Takamura (Tokyo Institute of Technology, Japan), Jun Munemori (Wakayama University, Japan), Kenji Mase (Nagoya University, Japan), Kiyoshi Shirai (Japan Advanced Institute of Science and Technology, Japan), Lim Ee-peng (Singapore Management University, Singapore), Nick Cercone (York University, Canada), Manabu Okumura (Tokyo Institute of Technology, Japan), Mikifumi Shikida (Japan Advanced Institute of Science and Technology, Japan), Motoki Miura (Japan Advanced Institute of Science and Technology, Japan), Osamu Takaki (Japan Advanced Institute of Science and Technology, Japan), Pakinee Suwannajan (SIIT, Thammasat University, Thailand), Rattapoom Tuchinda (NECTEC, Thailand), Sadanori ITO (Tokyo University of Agriculture and Technology, Japan), Sanparith Marukatat (NECTEC, Thailand), Stijn De Saeger (National Institute of Information and Communications Technology, Japan), Sukree Sinthupinyo (Chulalongkorn University, Thailand), Takashi Kanai (Prefectural University of Kumamoto, Japan), Takaya Yuizono (Japan Advanced Institute of Science and Technology, Japan), Thepchai Supnithi (NECTEC, Thailand), Yasuyuki Sumi (Kyoto University, Japan)

Thanarak Theeramunkong, Guest Editor-in-Chief

Thanarak Theeramunkong (Member) received his doctoral degree in Computer Science from Tokyo Institute of Technology. His current research interests include data mining, machine learning, natural language processing, and information retrieval.