SPECIAL ISSUE ON OPTIMIZATION AND CONTROL WITH APPLICATIONS

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This Special Issue of International Journal of Innovative Computing, Information and Control (IJICIC) is dedicated to Professor Kok Lay Teo and Professor Jie Sun for their fundamental contributions to optimization, optimal control, computational methods and applications on the occasion of their 65th birthday. Professor Kok Lay Teo is a John Curtin Distinguished Professor at Curtin University, Australia. He is the Editor-in-Chief of (i) Journal of Industrial and Management Optimization (JIMO), (ii) Dynamics of Continuous, Discrete and Impulsive Systems, Series B (DCDIS-B), (iii) Numerical Algebra, Control and Optimization (NACO), and an Editorial Board member for a number of high impact international journals. He has edited 2 books and 16 special issues for various journals, published over 400 research papers and authored 5 books/monographs. His key contributions include numerical optimal control and optimization, optimal digital filter design, distributed optimal control theory, and their applications. He has supervised many talented students and research fellows who are now active researchers around the world in applied mathematics, optimization and control.

Professor Jie Sun is a Provost’s Chair Professor of Decision Sciences in the School of Business at National University of Singapore, Singapore. His research interests include operations research, mathematical programming, and high performance computation. He is the current Chair of the Pacific Optimization Activity Group. He is one of the four Editors of the Pacific Journal of Optimization and he serves as a member of numerous prestigious international journals. He is a consultant of various Singaporean and international companies and organizations. Professor Sun has published 6 books/special issues and more than 100 research papers with over 2000 citations.

During their outstanding careers, Professor Teo and Professor Sun have greatly influenced and benefited many researchers in their scientific activities in the areas of optimization, mathematical programming and optimal control through their books and monographs, scholarly articles, edited volumes and special issues, their conference presentations, as well as the conferences and workshops that they have helped organize.
The Guest Editors of this Special Issue of IJICIC have had the privilege of knowing Professor Teo and Professor Sun personally and professionally. In particular, it is a pleasure to note that the Guest Editors of this Special Issue all did their PhD studies under the supervision of Professor Teo. In recognition of their contributions to optimization, mathematical programming and optimal control, the International Conference on Optimization and Control (ICOCO2010) was held in Guiyang, China, July 18-23, 2010, dedicated to them on their 65th birthday. The conference brought together their friends, former and current PhD students, postdoctoral fellows, colleagues and collaborators from all over the world. There were 106 participants attending this conference.

We would like to take this opportunity to thank all the contributors who have made it possible to bring forth this Special Issue. We are also thankful to the reviewers for their careful, professional and stringent reviews. Our warmest thanks and appreciation go to Professor Peng Shi, Editor-in-Chief of IJICIC, and Professor Yan Shi, Executive Editor of IJICIC, for their assistance and encouragement during the editing process and publication of the Special Issue.