Foreword

It is my great honor to be the first reader of this excellent book edited by two world class specialists in the filed of Artificial Intelligence, Prof. Leon S.L. Wang and Prof. Tzung-Pei Hong.

This edited book treats a very important topic of Artificial Intelligence, which is related to Integrating Advanced Technology for Intelligent Soft Computation and Data Mining. The book presents an international forum for the synergy of new developments from these two significant, but different research disciplines. It is very good idea of the Editors for making the fusion of diverse techniques and applications, owing to which new and innovative ideas will be stimulated and integrated.

This book contains nineteen original and high quality chapters authored by leading researchers of soft computing and data mining communities as well as practitioners from medical science, space and geo-information science, transportation engineering, and innovative life science. The book is organized into three sections. The first section includes four innovative chapters that give a flavor of how soft computation and data mining can be integrated for various applications. In the second section nine new soft computation techniques for different real world applications are presented. The last section includes five real life problems for which the authors proposed new data mining techniques.

The research results presented in the chapters of this book are original and very interesting. I would like to congratulate Professor Leon S.L. Wang and Professor Tzung-Pei Hong for the excellent work and all the authors for their wonderful contributions.

In my opinion, the techniques for integrating advanced technologies for intelligent soft computation and data mining included in this book are very valuable and many readers such as postgraduate and Ph.D. students in Computer Science, scientists who are working on intelligent computing, knowledge management, data mining, will find it interesting and helpful.

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Ngoc Thanh Nguyen *works at Wroclaw University of Technology, Poland, and is the head of Knowledge Management Systems Department in the Faculty of Computer Science. His scientific interests consist of knowledge integration methods, collective intelligence, intelligent technologies for conflict resolution, inconsistent knowledge processing, multi-agent systems, and E-learning methods. He has edited 20 special issues in international journals, 10 books and 8 conference proceedings. He is the author of 4 monographs and about 190 other publications. Prof. Nguyen serves as Editor-in-Chief of International Journal of Intelligent Information and Database Systems; Editor-in-Chief of two book series: Advances in Applied Intelligence Technologies and Computational Intelligence and its Applications for IGI Global Publishers (USA); Associate Editor of Neurocomputing, International Journal of Innovative Computing & Information Control, Journal of Information Knowledge System Management and KES Journal; and a Member of Editorial Review Boards of several other prestigious international journals. He has been General Chair or Program Chair of more than 10 international conferences. Prof. Nguyen has been selected as the Vice-President of International Society of Applied Intelligence (ISAI); In 2008 for his activities the President of Poland has rewarded Prof. Nguyen the Bronze Medal for Education. In 2009 he received the Title of Professor granted by the President of Poland.*