PREFACE - C. Y. CHAN

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I am delighted to present this special issue to honor my Ph.D. supervisor, Dr. Chiu Yeung Chan. His mentoring and guidance have had a profound effect on my personal and professional growth. Since June 2016, he has been Professor Emeritus in the Department of Mathematics, University of Louisiana at Lafayette, USA.

After obtaining Ph.D. degree from the University of Toronto in 1969, Professor Chan started his professional career as an assistant professor at the Florida State University, where he was promoted to Associate Professor with tenure in 1974 and to full Professor in 1981. During this period, he also worked at the California State University, Chico (1977, 1979) as Distinguished Visiting Professor, and the University of Tennessee, Knoxville (1980). In 1982 he was appointed as a tenured full professor at the Department of Mathematics, University of Louisiana at Lafayette (formerly known as the University of Southwestern Louisiana), where he served as the Graduate Coordinator (1988−1999), the Director of Computational Research Laboratory (1990 − 1991; 1992 − 2000), and the Department Head (1993 − 2000). In 1988, Professor Chan was given the Distinguished Professor award by the University of Louisiana at Lafayette Foundation. From 1993 until his retirement in June 2016, he was awarded the Pennzoil Endowed Professorship (renewable and subject to approval every three years).

Professor Chan was and is still an active researcher. Since 1980, he has given more than 100 invited plenary talks at international conferences and invited lectures at many research leading countries. He is serving on the editorial boards of six international refereed research journals. Professor Chan has published more than 135 research papers. His main research interests are in nonlinear partial differential equations, applied analysis, mathematical modeling, and computational mathematics.

In his 47-year academic career, Professor Chan was an energetic teacher and an eminent advisor as proven by his directing solely 21 Ph.D. dissertations, and serving as Chair of M.S. committees for 40 students. He is also a great mentor to numerous graduate students and an enthusiastic friend to many colleagues and research collaborators.

Professor Chan's students are very active professionally in the world. Some of them are authors of the papers included in this issue covering a wide range of topics related to theoretical analysis and computation methods on stability and singularity. This broad range of topics as well as the impressive nature of the research shows the impact that Professor Chan has had and continues to have on research and development in mathematics. I am truly delighted to dedicate this special issue to Professor Chan to thank him for his contributions and impacts to the community.

With the support from the Chief Editor, Professor M. Sambandham, of the journal Neural, Parallel, and Scientific Computations (NPSC), I am thankful to edit this special issue entitled "Recent Advances in Problems involving Stability and Singularity". This special issue consists of 11 invited papers on both theoretical and practical aspects concerning recent exciting developments taking place in the study of computational methods for solving problems with singularity and stability. Finally, my sincere thanks go to the reviewers for their valuable and constructive evaluation of the papers.