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PREFACE

Papers collected in these two issues (Issues 11-12) of Discrete and Continuous Dynamical Systems Series S (DCDS-S) address and present some advances with an emphasis on newly developed techniques that further progress nonlinear systems and analysis, as well as applications in mathematical biology, physics, and engineering. These papers make notable contributions to many branches, including mathematical modeling, qualitative analysis, numerical computations, and simulations. It is also worth mentioning that some of these contributions not only present a great number of results, ideas, and techniques in nonlinear analysis, but also formulate new possible developments that may stimulate novel studies in this area.

I wish to thank the colleagues who contributed to these two issues of DCDS-S and acknowledge the support from the SMSS of the University of Texas Rio Grande Valley. Each submission to this special issue has been through a rigorous refereeing process, in accordance with the high standard of DCDS-S. I also wish to thank all the referees for their valuable and constructive comments.

These two issues are dedicated to our friend and colleague Professor Yong Li (a famous mathematician in the School of Mathematics of Jilin University), on the occasion of his 65th birthday and in honor of his important and fundamental contributions to the fields of differential equations and dynamical systems. His pleasant personality and ready helpfulness have won our hearts as his admirers and friends.

Finally, I would like to express my sincere gratitude to AIMS, especially to the Editors-in-Chief of the DCDS-S, Xiaoying Han and Alain Miranville, for providing us with this opportunity and their always-available support!

Guest Editor

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