

Prologue

This special issue collects articles from a group of senior researchers (as corresponding authors) in computational mathematics. It is a very special group as all but three corresponding authors (from Korea and India) are Chinese scholars. These Chinese scholars, in particular, all entered university in 1978, they are the historical "Class of 77" and "Class of 78" after the Chinese Cultural Revolution when universities in China stopped accepting students based on their academic performance for more than 10 years (1966-1977).

Aside from their fruitful scientific results, they also proved once more that G.H. Hardy's claim that "mathematics is a young man's game (A Mathematician's Apology) is no longer true today (another proof was given in 2014 by the first female Fields medalist Maryam Mirzakhani).

These articles comprise a collection of diverse subjects in scientific computing, which includes: Maxwell equations, hyperbolic equations, nonlinear parabolic equations, Poisson-Boltzmann equation, convection-diffusion problems, interface problems, optimal control problems, etc.

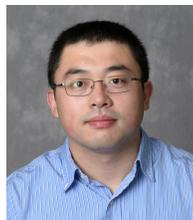
Readers will find that articles in this special issue touch some major numerical methods including finite element methods, discontinuous Galerkin methods, immersed finite element methods, spectral methods, etc. The corresponding authors of this special issue are among the pioneer researchers in these areas. We have enjoyed the review process for these articles, as they are inspirational for new directions within computational mathematics.

As guest editors, we would like to thank all authors who gave their precious research ideas and results in their contained in this special issue. At the same time, we would like to express our gratitude to the Editor-in-Chief, Professor Yanping Lin for his support and efforts. Finally, we wish to thank all authors for their spirited efforts and contributions, and the reviewers who worked hard to ensure the high quality of this special issue of IJNAM.

About the managing editors of this special issue



Dr. Zhimin Zhang is a Professor of Mathematics at Wayne State University (USA), and Chair Professor at Beijing Computational Science and Research Centers (China). He received his Ph.D. in applied mathematics from University of Maryland at College Park in 1991. He was Assistant Professor and Associate Professor at Texas Tech University from 1991 to 1999. His research interests are numerical solutions for partial differential equations, computational mechanics, and scientific computing. His research has been continuously funded by the US National Science Foundation since 1996.



Dr. Xu Zhang is an Assistant Professor of Mathematics at Mississippi State University. He received his BS and MS in computational mathematics from Sichuan University in 2005 and 2008, and Ph.D. in applied mathematics from Virginia Tech in 2013, respectively. He was a Golomb Visiting Assistant Professor at Purdue University during 2013-2016. His research interests are numerical methods for partial differential equations. Recently his research focuses on immersed

finite element methods for interface problems.

