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## Editorial

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**Biographical notes:** P. Jidesh received his PhD degree from the Department of Mathematical and Computational Sciences, National Institute of Technology, Karnataka, Surathkal, India. Since 2009, he is with the Department of Mathematical and Computational Sciences, National Institute of Technology, Karnataka, Surathkal, India, where he is currently an Assistant Professor. He has published several papers in reputed international journals and conferences. He has guided many graduate students for their dissertations and currently four research scholars are working under his supervision. His areas of research interest include mathematical imaging, spectral graph theory, graph image processing and data compression.

Santhosh George received his PhD in Mathematics from Goa University, under the supervision of Dr. M.T. Nair. He is a Professor of Mathematics at the National Institute of Technology, Karnataka. Five students have completed their PhD under his guidance. He has many international journal and conference papers to his credit.

Ioannis K. Argyros received his BSc degree from the University of Athens, Greece; and his MSc and PhD degrees from the University of Georgia, Athens, Georgia, USA, under the supervision of Dr. Douglas N. Clark. He is currently a Full Professor of Mathematics at Cameron University, Lawton, OK, USA. He has published more than 800 papers and 17 books/monographs in his area of research, computational mathematics. He is also an editor of 20 peer reviewed research journals in mathematics.

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‘Mathematical and computational sciences’ is an advancing area of research in the contemporary scientific world. There are quite a few scientific research problems for which mathematical methods provide viable and reliable solutions. Many diverse fields as economics, engineering, and physics, boil down to a set of mathematical equations which can be solved using the scientific methods. There are many real-world problems

which are inverse in nature; we can find such problems almost in all the fields of science and engineering. Providing a closed form solution to such problems is a challenging task, therefore, numerical computational techniques are employed for approximating the solutions to these problems. This special issue on 'Advances in mathematical and computational sciences' focuses on such computational techniques which are elegant tools for solving many scientific research problems known among the research community. This special issue includes article from various fields of science and engineering. This issue was based on the theme derived from the International Conference on Mathematical and Computational Sciences 2015, held during 22nd–24th January 2015 at Don-Bosco College, Kannur, Kerala. Some of the selected and expanded papers from the conference are also included in this special issue along with the other articles. The conference was organised in the honour of Professor R.J. D'souza a senior faculty member who retired on superannuation from the Department of Mathematical and Computational Sciences, National Institute of Technology, Karnataka, Surathkal, India. We acknowledge the support of all the organisers of the conference for hosting this special issue successfully. Furthermore, we thank all the reviewers for their wholehearted support and reviewing the articles well within the time-frame, which resulted in timely publication of this special issue. Support of the Editor-in-Chief, all the editorial board members and the editorial staff is being acknowledged thankfully.

All articles in this special issue are well organised and rigorously reviewed by at least two experts in the relevant area to ensure the quality, novelty, correctness and accuracy in the results/presentations. However, any views or accuracy/correctness and credibility of the results are sole responsibility of the authors of respective papers, the editors (guest) or editorial board members/staffs of this journal are not responsible for any consequences arising out of the use or interpretation of the results of any of these articles in any form whatsoever.

We believe that this special issue of the journal will be a delightful experience for the readers in the scientific research community.