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

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‘Mathematical and computational sciences’ is an area of tremendous interest to the research community in the contemporary scientific world. Many research problems demands formulation of mathematical methods to derive viable and reliable solutions. There are many real-world problems for which providing a direct solution is very challenging, in other words they are inverse in nature; such problems are ubiquitous in all the branches of science and engineering. Deducing a closed form solution to such problems are not an easy task, the only viable option is to provide approximate solutions using numerical methods. This special issue on ‘Topics in mathematical and computational sciences’ focuses on such techniques which are commonly adopted among the research community to solve such problems. 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 for reviewing the articles well

within the time-frame, which resulted in timely publication of this special issue. The 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 field to ensure the quality, novelty, correctness and accuracy in the 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.