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EDITORIAL NOTE

The content of this issue brings together peer-reviewed and electronically published proceedings from the 1st Conference of Computational Interdisciplinary Sciences (CCIS) at INPE (São José dos Campos-SP-Brazil) in August 2010 (http://www.lac.inpe.br/CCIS).

The primary objective of CCIS was to provide a single forum for the computational interdisciplinary area to strengthen links between basic and applied research, theoretical and experimental methods of scientific computing and computational mathematics. Thus, the scope of CCIS includes mainly advanced computational issues related to mathematics, physics, chemistry, biology and engineering of complex systems in numerical and natural experiments.

The articles collected in the issue do not intend to provide a comprehensive coverage of computational issues across all main areas of CCIS; instead, we hope to provide some samples of the challenging issues in interdisciplinary computational science. Our ultimate goal is to attract more computational scientists to look at and to study these computational interdisciplinary problems and beyond to help to shape the future of a new branch of computational science in which interdisciplinary problems and methodologies will be in the focus.

The papers of this issue span the following areas: extreme optimization for dynamical processes in physics and biology, computational space physics, computational satellite tracking and bioinformatics.

We would like to thank all the authors who have taken time from their busy schedules to write for this special issue. We would also like to thank the new editorial office team of JCIS particularly Mr. C. Strieder, Mr. A.E. Rafael and Professor W. Abrahão. They have all provided timely help in setting up a new website to facilitate communication between the editors and the authors as well as *Crossref*. We thank their important help and dedication.

We are grateful to LAC-INPE and CNPq for a financial support that enabled the PACIS to publish this Volume. Special thanks are due to all members of the CCIS 2010 scientific and organizing committees.

Finally, we dedicate this issue in memory of our unforgettable friend José Demisio Simões da Silva who was a co-chair of the CCIS 2010. Unfortunately he passed way nine months after this scientific meeting, leaving us heartbroken but even more encouraged to keep walking toward this innovative publishing project.

Reinaldo R. Rosa
(Editor-in-Chief)
Chair of CCIS 2010