



EDITORIAL NOTE

The *Pan-American Association of Computational Interdisciplinary Sciences* (PACIS) is proud to publish this new issue of the *Journal of Computational Interdisciplinary Sciences*. This third issue, closing Volume 1, contains five original articles meant to be representative of the main subject areas covered by the *Journal of Computational Interdisciplinary Sciences*. The first paper highlights the need for Virtual Observatories in modern Astronomy focusing in the special case of the Brazilian project which is in development. This was a refereed invited paper which brings important and original technical information on computational data science in space physics. The second paper investigates approaches to nonlinear dynamics of quadratic maps which are related to theory and application in both computational mathematics and computational physics. The third paper, more close to applied computing science, examines an alternative architecture for general real time simulation and visualization systems. The fourth paper introduces a fuzzy-like measure for use in machine vision, and the last article is related to computational data extraction and analysis in a biological system.

We hope that the *Journal of Computational Interdisciplinary Sciences* will remain such a multidisciplinary forum that actively encourage to explicit as much as possible the scientific computing content of fundamental research areas as mathematics, physics, chemistry and biology. We would personally like to see more papers in computational simulation and the research involving human sciences disciplines as economy, sociology, psychology, and linguistics.

We wish to thank the Authors who submitted the articles published in this closing issue of Volume 1. Reviewers are also thanked for their help towards setting high standards of quality in the published papers. We also wish to mention our deepest appreciation for the generous efforts of all the colleagues in the Editorial staff, especially to Solange Villar Visgueiro ensuring friendly and very professional technical editing support, who have made the JCIS a reality. Many thanks to all of them.

Finally, we would like to express our gratitude to *Centro de Seleção e de Promoção de Eventos* (CESPE) – *Fundação Universidade de Brasília*, for a generous support that enabled the PACIS to start this first volume.

Reinaldo R. Rosa
Fernando A. Oliveira
(Editors-in-Chief)

Marcus J.B. Hauser
(Associate Editor)

February 2010