Editorial

Nadia Nedjah

Department of Electronics Engineering and Telecommunications,
Faculty of Engineering,
State University of Rio de Janeiro,
Brazil
E-mail: nadia@eng.uerj.br

Biographical notes: Nadia Nedjah is an Associate Professor in the Department of Electronics Engineering and Telecommunications at the Faculty of Engineering, State University of Rio de Janeiro, Brazil. Her research interests include functional programming, embedded systems and reconfigurable hardware design as well as cryptography. She received a PhD in Computation from the University of Manchester, Institute of Science and Technology (UMIST), England, an MSc in System Engineering and Computation from the University of Annaba, Algeria and an Engineering degree in Computer Science also from the University of Annaba, Algeria.

It gives me great pleasure to welcome you to the first issue of the *International Journal of Innovative Computing and Applications* (*IJICA*). *IJICA* is a peer-reviewed international journal with a sole objective of providing the academic and industrial communities with a medium that publishes original and cutting edge research related to new paradigms in computational intelligence and their applications in solving real-word problems.

The need for innovative computationally intelligent techniques and paradigms has become more critical. As we all know, the problems of the future will be more complicated in terms of complexity and data volume. The increasing complexity points towards an inevitable need to investigate innovative intelligent systems that could learn from data in a continuous, incremental way and grow as they operate, update their knowledge and refine the model through interaction with the environment. New paradigms are needed more than ever to cope with these problems.

IJICA proposes and fosters discussion on all new computing paradigms and the corresponding applications to solve real-world problems. The journal will cover all aspects related to evolutionary computation, quantum-inspired computing, swarm-based computing, neuro-computing, DNA computing, fuzzy computing as well as other new computing paradigms. We intend to publish original and unpublished work that describes current research on new paradigms in computational intelligence. Both the theoretical and methodological aspects, as well as related applications solving real-world problems are also welcome. *IJICA* will be published quarterly. Each submitted manuscript will be thoroughly reviewed by three or more independent reviewers.

As the Editor-in-Chief of *IJICA*, I would like to take this opportunity to thank all the people who have helped in launching this new journal. I would like to express my gratitude to the Editorial Board members who provided us with a lot of support and advice and who will continue to support us in the coming years. All of them are established researchers in their field and I am sure that their international reputation and great expertise in the journal field will have a significant impact in shaping up *IJICA* as a reputed international journal. *IJICA* also rely on their expertise for selecting the best papers for publication. I am honoured and fortunate to work with a strong technical editorial board.