
Editorial

Nadia Nedjah

Department of Electronics Engineering and Telecommunications,
Faculty of Engineering,
State University of Rio de Janeiro,
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, intelligent systems, innovative computing paradigms 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 her 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 High Performance Systems Architecture (IJHPSA)*. *IJHPSA* 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 system architectures that allows to reach high performance throughput.

The need for high performance system architecture for all kind of application is becoming more and 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 new architectures that exploits all type of techniques to yield high performance systems.

The *International Journal of High Performance Systems Architecture* proposes and fosters discussion on all aspects of the design and implementation of high-performance architectures, which evolve around the concept of parallel processing. The journal will cover

all kind of advanced architectures ranging from pipelined structures, array processors and multiprocessor systems. Dedicated high-performance architectures and systems as well as hardware and software design methods and tools will also fall within the scope of this journal. *IJHPSA* will be published quarterly. Each submitted manuscript will be thoroughly reviewed by three or more independent reviewers.

As Editor-in-Chief of *IJHPSA*, 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 *IJHPSA* as a reputed international journal. *IJHPSA* 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.