Editorial

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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 intelligent systems, embedded systems and reconfigurable hardware design as well as cryptography. In 1997, she received her PhD in Computation from the University of Manchester, Institute of Science and Technology (UMIST), England. In 1990, she received her MSc in System Engineering and Computation from the University of Annaba, Algeria and in 1987, she received her degree in Engineering in Computer Science from the University of Annaba, Algeria.

Once again, it gives me great pleasure to welcome you to the second 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.

This issue includes six peer-reviewed papers, all on innovative computing paradigms. In the following, the main contributions of these papers are introduced.

The first paper is titled 'A guide to statistical analysis for single criteria heuristics evaluation', B. Adenso-Díaz and N. Corral. The authors analyse the different tests that may be considered to verify significant differences between the performance of different single criteria heuristics, as well as including a number of application examples, and a discussion about the problem of robustness.

The second paper is 'Genetic programming: profiling reasonable parameter value windows with varying problem difficulty', A. Piszcz and T. Soule. The authors study the impact of the parameters used in genetic programming on the evolutionary process.

The third paper is titled 'A multiobjective evolutionary algorithm-based optimisation model for network on chip synthesis', R.K. Jena and G.K. Sharma. The authors address the problem of topological mapping of Intellectual Properties (IPs) on the tile of a mesh-based Network on Chip (NoC).

The fourth paper is titled 'Reduced order modelling of linear multivariable systems using particle swarm optimisation technique', G. Parmar, S. Mukherjee and R. Prasad. The authors develop an algorithm for order reduction of linear multivariable systems using the combined advantages of the dominant pole retention method and the error minimisation by particle swarm optimisation technique.

The fifth paper is titled 'Particle swarm optimisation enhancement approach for improving image quality', M. Braik, A. Sheta and A. Ayesh. The authors view image enhancement as an optimisation problem to which they apply PSO.

The sixth paper is titled 'A selective approach to parallelise bees swarm optimisation metaheuristic: application to MAX-W-SAT', S. Sadeg and H. Drias. The authors present a parallel version of the Bees Swarm Optimisation metaheuristic (BSO).