
Editorial

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Dear readers,

Welcome to the inaugural issue of the *IJCISudies*!

With this new Inderscience publication, we aim to provide a reference channel for disseminating all experimental, theoretical and application aspects of computational intelligence (CI). Over the last years CI in its various forms has emerged as one of the major topics in the scientific community and many CI techniques have been successfully applied to solve problems in a wide variety of fields such as biometrics, medical diagnosis, signal processing, and so on.

The primary objective of *IJCISudies* is to provide an international and qualified reference point for all researchers engaged in new developments of CI. *IJCISudies* is intended to serve and support scientists, professionals, entrepreneurs, government employees, policy and decision makers, educators, students and all people who are working in this scientific field or who are interested in considering and using CI techniques for their specific applications.

In this inaugural issue, five feature articles address emerging research topics within the fields of CI by leaders in the scientific community.

The first article by Apolloni and Bassis, points out in a very exciting and original way the role of randomness in the social computing paradigms, where a huge number of agents individually do an elementary job and jointly give rise to a sophisticated functionality, as the source of the complexity of this functionality.

The paper by Smart, Liu, Jesse and Brown is more applicative and suggests a density based mixture of Gaussians (MOG) method for qualitative classification of descent phase in commercial flight data.

With reference to the problem of merging several connection patterns by a pool of neural networks in order to obtain a better connection pattern, Fiori discusses in the third article an averaging technique for the case in which parameter space is the manifold of special orthogonal matrices.

The two papers that follow are both devoted to the problem of function optimisation.

The paper by Deep and Bansal suggests a new particle swarm optimisation algorithm, called Mean PSO, which is based on a novel philosophy by modifying the velocity update equation.

Krishnanand and Ghose, propose a new method of swarm intelligence based algorithm for optimisation multimodal functions that is able to ensure capture of all local maxima of the function.

As this journal is a collective effort of all the Editorial Board members, the composition of which reflects the diverse topics in CI, we would like to take this opportunity to thank each and every one of them for their valuable cooperation. In particular, we are greatly indebted to Professor Lakhmi C. Jain for stimulating and encouraging the proposal of a new journal in the artificial intelligence arena.

All papers submitted to the *IJCISudies* undergo a comprehensive review process under the direction of a member of our Editorial Board. Each paper receives at least three reviews, based on which the Editorial Board member makes a recommendation. The Editorial Board members ensure all papers receive fair and in-depth reviews before any decision is made. These decisions are reviewed by the Editor-in-chief.

We hope this new publication will be useful to each of you and we are looking forward to hearing your comments, criticisms and suggestions to continuously enhance it and serve you better. You are also invited to contribute to the journal according to your interests and expertise.

Enjoy reading this inaugural issue and stay with us!