

Journal of Universal Computer Science (JUCS)

A publication of Graz University of Technology and Universiti Malaysia Sarawak



Call for Papers

Special Issue on: “Bio-Inspired Computing: Theories and Applications”

Guest Editors: Professor Dr. Atulya K. Nagar and Dr. Robinson Thamburaj

Biologically Inspired Computing, a subset of Natural Computing, is the study of topics related to the computing paradigms that encompass the subfields such as Membrane Computing, DNA Computing, Evolutionary Computing, Artificial Immune Systems, Connectionism, Social Behaviour, Complex Emergent Systems, etc. As this study relies on areas such as Cellular Biology, Biochemistry, Computer Science and Mathematics etc, it attracts multidisciplinary interest in theories and applications. The aim of this special issue of the Journal of Universal Computer Science (JUCS) is to bring together emerging concepts, theoretical developments and applications in the area of Bio-Inspired Computing.

Subject Coverage: Topics of this special issue include, but are not limited to:

- | | |
|---|--|
| Neural Networks | Artificial Life and Artificial Immune Systems |
| Evolutionary Computing and Genetic Algorithms | Signal Processing and Pattern Recognition |
| DNA and Molecular Computing (including wet-lab results) | Data Fusion, Knowledge Discovery and Data Mining |
| Membrane Computing | Natural Language Processing and Expert Systems |
| Biological Computing | Computer Security and Computer Vision |
| Swarm Intelligence | Biological and Molecular Implementation |
| Autonomy-Oriented Computing | DNA Nanotechnology |
| Cellular and Molecular Automata | Web and Networks |
| Complex Systems | Multi-Objective Optimisation |
| Computational Neuroscience | Bioinformatics and Cheminformatics |
| Computational Genomics and Proteomics | Computational Biology and Drug Design |
| Computational Neuroscience | Systems Biology and Synthetic Biology |

Contributions are invited from academia and industry to submit their latest research outcomes as high quality journal submissions. To submit a paper you may send one copy in the form of an MS Word/LaTeX file attached to an e-mail (details in Author Guidelines/Instructions on the JUCS Journal website) to the following: nagara@hope.ac.uk and robin.mcc@gmail.com

Important Dates:

Manuscript submission: 15th January 2011

Revised paper submission: 30th April 2011

Reviewer reports: 31st March 2011

Final manuscript submission to publisher: 15th June 2011

For Further Information and Instructions for Authors please visit:

http://www.jucs.org/jucs_info/submissions

Prof. Atulya K. Nagar
Professor of Computer and Mathematical Sciences,
Head of Department of Computer Science,
Liverpool Hope University, Hope Park
Liverpool L16 9JD, UK.
E-mail: nagara@hope.ac.uk

Dr. Robinson Thamburaj
Associate Professor,
Department of Mathematics
Madras Christian College,
Chennai – 600 059, India.
E-mail: robin.mcc@gmail.com