2nd Symposium on Nature Inspired Computing and Applications (NICA) @ AISB 2013

Convention Website
http://emps.exeter.ac.uk/computer-science/research/computer-science/research-interests/nature-inspired-computing/aisb/

This symposium, focussing on the theory and application of nature-inspired computing techniques will take place as part of the AISB 2013 convention from April 2nd-5th 2013 at the University of Exeter, Exeter, UK.

The congress is organised by the Society of the Study of Artificial Intelligence and Simulation of Behaviour (AISB)

The congress website can be found here: http://www.aisb.org.uk/events/aisb13/

Symposium Description

Nature-Inspired Computing covers a wide range of algorithms that take inspiration from natural systems such as evolution, swarm intelligence, human intelligence and life processes to create algorithms that exceed the performance of their traditional rivals in a wide variety of application areas. This symposium is designed to provide a forum for researchers in the field of Nature Inspired Computation (broadly considered) to present theoretical advances and novel applications in this field and to discuss NICA in a wider context.

Call for Papers

 Authors are invited to submit their original work in the areas including, but not limited to:

- Evolutionary algorithms
- Swarm intelligence algorithms (e.g ACO, PSO, Bee Hive algorithms)
- Neural networks (e.g. ANNs, SOMs, RBF Networks)
- Decision Trees, Bayesian and Statistical Machine Learning
- Cellular Automata & Artificial Life
- Hybrid Nature-Inspired Algorithms
- Parallel and GPGPU Implementations of Nature-Inspired Computing

This work should describe a new or modified nature-inspired method, or a novel application to a problem domain. Domains of interest include, but are not limited to:

- Cognitive Science
- Machine Creativity (e.g. music & art)
- Operations Research
- Bioinformatics
- Engineering Design
- Classification and Prediction in Large-Scale Datasets
- Logic & Computability & Natural Language Processing
Submission Formats

Regular paper: 8 pages
Short paper: 4 pages

Please submit extended abstracts (between 1 and 2 pages in length) in Microsoft Word format by the deadline below using the NICA Word Template (available on the [website](#)).

Please submit papers by e-mailing a PDF copy of your paper along with your contact details to the [symposium chair](#).

Important Dates

Submission deadline: 14th January 2013
Author Notification: 11th February 2013
Camera Ready Copy: 4th March 2013

Convention Information

The Convention will consist mainly of a number of collocated Symposia on specific research areas, interspersed with Congress-wide refreshment breaks, social events and invited Plenary Talks. All papers other than the invited Plenaries will be given within Symposia.

Proceedings

There will be a separate proceedings for each symposium, produced before the Convention. Each delegate at the Conference will receive, on arrival, a memory stick containing the proceedings of all symposia.

Contact

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