

Invited session on:

“Artificial Intelligence driven Engineering Design Optimization”

KES-2008 Conference

12th International Conference on:

“Knowledge-Based & Intelligent Information & Engineering Systems”

Conference Venue: University of Zagreb, Croatia

3-5 September 2008

<http://kes2008.kesinternational.org/>

The session will focus on research activities in engineering design optimization, using methodologies from the field of Artificial Intelligence (such as Evolutionary Algorithms, Artificial Neural Networks, Foraging methodologies, etc.)

Topics

The session will welcome (although not limiting to) contributions on engineering design optimization methodologies and algorithms applied in real-world engineering problems. Papers from all Engineering fields are welcome, provided that they have significant level of intelligent systems content.

A non exhaustive list of **methodologies** to focus on is the following:

- Evolutionary Algorithms
- Multi-Objective Evolutionary Algorithms and constraint handling methodologies
- Artificial Neural Networks
- Foraging methodologies
- Integration and hybridization between different types of AI methodologies, or between classic and AI methodologies
- Use of approximation models
- Parallelization of AI algorithms
- Multi-disciplinary optimization methodologies

Major Application areas:

- Aeronautics
- Environmental Engineering
- Civil Engineering
- Electromagnetics
- Bioengineering
- Turbomachinery

- Manufacturing Technology
- Transport
- Energy
- Robotics
- Electronics

Paper submissions

Participants are encouraged to submit papers (up to eight pages in length) in the Springer LNCS/LNAI format. The conference proceedings will be published by Springer-Verlag in the LNAI series.

For paper submission information please send e-mail to jnikolo@dpem.tuc.gr.

Important dates

Paper deadline: February 28th, 2008

Notification of acceptance: April 1st, 2008

Camera-ready papers: May 1st, 2008

Session chair

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Conference venue

The conference will take place in Zagreb, the capital of the Republic of Croatia. Please refer to the official KES2008 web site for details on the conference and for travel information (<http://kes2008.kesinternational.org/>).