

INTERNATIONAL CONFERENCE ON MODELING AND OPTIMIZATION OF STRUCTURES, PROCESSES AND SYSTEMS

ICMOSPS' 07

22 - 24 JANUARY 2007

DURBAN, SOUTH AFRICA

FIRST CALL FOR PAPERS



Organized by

School of Mechanical Engineering

University of KwaZulu-Natal, Durban, South Africa

INTRODUCTION

The conference provides a forum where engineers, scientists and mathematicians can meet to share ideas and findings of their latest research work on methods and applications of modeling and optimization.

CONFERENCE THEMES

Prospective authors are invited to submit abstracts on topics related to, but not limited to, the following topics

- Computer Modeling
- Statistical and Probabilistic Modeling
- Software Development
- Linear and Nonlinear Programming
- Dynamical Systems
- Structural Optimization
- Applications of Optimization
- Computational Fluid Mechanics
- Simulation Tools and Languages
- Failure and Fracture
- Design Optimization
- Communications and Networking
- Nanotechnology
- Neural Networks and Fuzzy Logic
- Manufacturing Processes and Systems
- Medical and Bioengineering
- Transport Systems
- Vehicle Simulation
- Numerical Methods
- Optimization Theory
- Optimization Algorithms
- Finite Element Modeling
- Artificial Intelligence
- Materials Science
- Sensitivity Analysis
- CAD, CAM & CAE
- Virtual Prototyping
- MEMS
- Smart Materials and Structures
- Solid Mechanics
- Optimal Control Theory & Applications
- Industrial Applications

CALL FOR PAPERS

Prospective authors should submit a 400-word Abstract to the conference organizers by e-mail (ICMOSPS@ukzn.ac.za). The Abstract should clearly state the objectives, results and conclusions of the work undertaken and emphasize the novel aspects of the work. It should contain the mailing address, fax number and e-mail of the corresponding author. All abstracts will be reviewed by an international technical committee.

IMPORTANT DATES

- **Deadline for Abstracts:** 31 August 2006
To be sent to: ICMOSPS@ukzn.ac.za
- **Notification of acceptance:** 20 September 2006
- **Submission of up to fifteen-page manuscripts:** 20 November 2006

CONFERENCE CO-CHAIRMEN

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Web site: <http://www.ukzn.ac.za/Mecheng/ICMOSPS313.aspx>

REGISTRATION FEE 320 USD (Students: 140 USD)

ICCST/6, INTERNATIONAL CONFERENCE ON COMPOSITE SCIENCE AND TECHNOLOGY

Simultaneously with ICMOSPS'07, International Conference on Composite Science and Technology (ICCST/6 - <http://www.ukzn.ac.za/Mecheng/ICCST319.aspx>) will be held at the same time and venue. Delegates can attend and submit papers to both conferences with one registration.

CONFERENCE VENUE

The conference will be held at the Holiday Inn, Elangeni which is a beach front hotel located on the Golden Mile of Durban. This hotel and nearby hotels will be available for the accommodation of delegates. Pictures of the hotel are shown below.

CONFERENCE PROCEEDINGS

Papers presented at the conference will be published in the CD-ROM conference proceedings which will be available at the Conference. For this purpose a paper of maximum 15 pages should be submitted to the organizers.

KEYNOTE LECTURES

A number of leading researchers in the field of simulation, modeling and optimization will be invited to deliver keynote lectures.

EXCURSIONS

Excursions to nearby Game and Nature Reserves and Kruger Park can be organized through travel agents. An official travel agent will be assigned for the conference.

