



FORTH INTERNATIONAL CONFERENCE
ON MULTIDISCIPLINARY DESIGN OPTIMIZATION AND
APPLICATION

5-9 NOVEMBER 2012
XI AN, CHINA

Call for Papers

Papers are invited on the topics outlined and others falling within the scope of the conference. Abstracts of no more than 300 words should be submitted as soon as possible. Abstracts should clearly state the purpose, results and conclusions of what will be presented. Conference working language will be English. There will be mini-exhibition spaces available for organizations wishing to exhibit hardware, software, products, services and literature related to the themes of the conference. Also, persons wishing to organize a Mini-symposium consisting of one or more technical sessions are welcome. Each session contains five 20 minute slots. Articles presented in the ASMDO conference are also eligible for publication in special issues.

Please submit the Abstract or Full Paper to:
JH.Zhu_FEA@nwpu.edu.cn

Important Dates

- Aug 15, 2012 Receipt of one page Abstract
- Aug 25, 2012 Receipt of Full Papers
- Sep 1, 2012 Referees' Comments (if applicable)
- Sep 15, 2012 Deadline for Early Registration
- Sep 25, 2012 Receipt of Final papers & Copyright forms
- Nov 5-9, 2012 Conference

Registration Fees

The registration fee covers book of abstracts, conference proceedings in CD with ISBN, access to all plenary sessions, conference materials, conference banquet, and coffee breaks. The standard registration fee will be as follows :

Fee (€)	Early Registration	Late Registration
Minisymposia organizers & students	300€	350€
ASMDO members	400€	450€
Non ASMDO members*	450€	500€
Mini-exhibition space	650€	750€

* A One year subscription to the ASMDO is included in your registration

Contacts

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[HTTP://WWW.ASMDO.COM/CONFERENCE2012/](http://www.asmdo.com/conference2012/)

Organized by:



Objectives

Multidisciplinary Design Optimization - MDO - deals with the optimal design of structural elements or systems employed in several engineering fields such as the aerospace industry, where reducing the structural weight is one of the most important tasks. Nowadays, use of Structural Optimization is rapidly growing in automotive, aeronautical, mechanical, civil, nuclear, naval, and off-shore engineering. This is due to the increase of technological competition and the development of strong and efficient techniques for several practical applications. The increase of speed and capacity of computers allows large-scaled structures and systems to be optimized. The main scientific challenges of MDO are concerned with the development of strong and efficient numerical techniques and with the computational procedures required for the necessary coupling of disciplinary software systems. Also, the applications related to real problems such as parameter identification is very difficult due to the gap that still exists between the industrial requirements and university research. In addition to the above points, the efficiency of the optimal result depends on the efficiency of the simulation and the modeling process. For these reasons, one of the main objectives of this international conference is to bring together scientists and practitioners working in different areas of engineering optimization.

Conferences Topics

Industrial Applications and Software Systems
Design Optimization and Inverse Problems
Sensitivity Analysis
Structural Optimization : Topology, Shape and Sizing Optimization
Micro and Nano-Technologies
Finite Elements Method
Real-Time Optimization
Vibrations and Structural Dynamics
Computational Mechanics
Robotics, Optimal Control
Heat and Mass Transfer
Multi-scale Optimization
Optimization of Composite Materials
Mathematical Programming Algorithms
Communication Aspects of Parallel & Distributed Algorithms
Distributed Computing in Design Optimization
Design of Experiments
Simulation and Modeling
Multi-objective Optimization
Robust Design
Computational Methods

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Location

Located at the very center of China, XI-AN is the most attractive tourism city recording the great changes of the Chinese nation like a living history book. Called Chang-An in ancient times, XI-AN is one of the birthplaces of the ancient civilization in the Yellow River Basin area of the country. During XI-AN's 3,100 year development, 13 dynasties such as Zhou (11th century BC - 771 BC), Qin (221 BC - 206 BC), Han (206 BC - 24 AD) and Tang (618 - 907) placed their capitals here. So far, XI-AN enjoys equal fame with Athens, Cairo, and Rome as one of the four major ancient civilization capitals.

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