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Important Dates

February 20, 2018	Abstract submission deadline
March 1, 2018	Notification of abstract acceptance
March 1, 2018	Early bird registration open
March 20, 2018	Full paper (optional) submission deadline
April 10, 2018	Early bird registration deadline
April 11-May 21, 2018	Regular registration
May 21-24, 2018	Conference dates

Contact us

Conference secretariat

acsmo2018@163.com and

mingli@dlut.edu.cn

Local secretariat

Man Guan, Dalian University of
Technology, China

Yaling Jia, Dalian University of
Technology, China

Rui Zhang, Dalian University of
Technology, China

Yu Wang, Dalian University of
Technology, China

Mu Qu, Dalian University of
Technology, China

Welcome

The Asian Congress of Structural and Multidisciplinary Optimization 2018 May 21 - 24, 2018, Dalian, China

On behalf of the organizing committee, we are very pleased to invite you to participate in the Asian Congress of Structural and Multidisciplinary Optimization 2018 (ACSMO2018) to be held in Dalian, China, May 21-24, 2018.

Structural and multidisciplinary optimization is a hot topic in both theoretical research and engineering applications. Following the successful eight CJK-OSM conferences and one ACSMO congress, the ACSMO 2018 will be held in the famous tourist city Dalian, China during May 21-24, 2018. As before this will be a forum for exchange of recent research ideas and fostering from various fields, with several new topics included. The scope is, however, not limited to those listed.

1. Optimization Methods

- 1.1 Optimization theories and algorithm
- 1.2 Design sensitivity analysis and global optimization
- 1.3 Parallel (or grid) computing in optimization
- 1.4 Multiobjective optimization
- 1.5 Probabilistic, heuristic, stochastic, evolutionary method

2. Shape and Topology Optimization

3. Design under Uncertainty

- 3.1 Uncertainty propagation analysis
- 3.2 Reliability analysis and design optimization
- 3.3 Robust design optimization
- 3.4 Model verification and validation
- 3.5 Time-dependent reliability analysis and design

4. Approximations, Surrogates, and Metamodeling

- 4.1 Approximation techniques
- 4.2 Approximation-based design optimization
- 4.3 Error and convergence study
- 4.4 Model order reduction and benchmarking studies

5. Optimization in Engineering Applications

- 5.1 Acoustic-vibration problems
- 5.2 Additive manufacturing
- 5.3 Condition monitoring, damage detection
- 5.4 Metamaterials
- 5.5 Multiscale and multiphysics problems
- 5.6 Noise/vibration suppression and control
- 5.7 Smart structure and energy harvesting

6. Optimization in Core Engineering Areas

- 6.1 Aerospace engineering
- 6.2 Architecture
- 6.3 Automotive engineering
- 6.4 Bioinspired and biomedical engineering
- 6.5 Civil engineering
- 6.6 Electronics, electrical systems and appliances
- 6.7 Industrial engineering
- 6.8 Naval/ocean engineering
- 6.9 Renewable energy (wind, solar, etc.)

7. Other Topics

Supporting Institute

The Asian Society for Structural and Multidisciplinary Optimization
The Chinese Association of Computational Mechanics
Society of Theoretical and Applied Mechanics, Liaoning province
Dalian University of Technology, China
State Key Laboratory of structural Analysis for Industrial Equipment, China
International Research Center of Theory and Application of Structural Optimization, China
International Research Center of Computational Mechanics, China
Beijing International Center for Theoretical and Applied Mechanics (BICTAM)
The Japan Society of Mechanical Engineers (JSME)
The Japan Society of Civil Engineers (JSCE)
The Japan Society for Aeronautical and Space Science (JSASS)
Architectural Institute of Japan (AIJ)
The Japan Society of Naval Architects and Ocean Engineers (JASNAOE)
The Japan Society for Computational Engineering and Science (JSCES)
Japan Association for Computational Mechanics (JACM)
Korean Society for Design Optimization
Korean Society of Mechanical Engineers (KSME)

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State Key Lab. of Structural Analysis for Industrial Equip.

Dept. of Engineering Mechanics,

Dalian University of Technology