



Welcome message

On behalf of the Organizing Committee, I am pleased to welcome you all to the Asian Congress of Structural and Multidisciplinary Optimization 2016 (ACSMO 2016) to be held in Nagasaki, Japan, from 22th to 26th May 2016.

ACSMO 2016 is the first conference hosted by the Asian Society for Structural and Multidisciplinary Optimization (ASSMO) taking over the series of biennial symposia called the China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM), which the last symposium was held as the 8th CJK-OSM in Gyeongju, Korea, in 2014. ASSMO was established by the organizing committee of the 8th CJK-OSM to bring together Asian researchers and practitioners in the field of structural and multidisciplinary optimization (SMO) and to exchange idea, and promote research in all aspects of SMO.

Since the 5th symposium in 2008, the CJK-OSM had been recognized as an official conference endorsed by the ISSMO (International Society of Structural and Multidisciplinary Optimization). ACSMO inherits this endorsement. We cordially invite participants not only from Asia but also from any other areas of the world as well.

Nagasaki is an exotic city having mixed cultures of Asia and the West. We sincerely hope that you take the chance to experience the unique culture of Nagasaki after the academic discussion. We look forward to welcoming you to ACSMO 2016 in May 2016.

Hideyuki Azegami
General Chair
Organizing Committee of ACSMO 2016

Venue

ACSMO 2016 is going to be held at Brick Hall, Nagasaki, Japan.

Brick Hall is located in the center of Nagasaki city, walking distance from train station, and one hour bus ride from Nagasaki Airport.

There are frequent flight to/from Nagasaki airport from/to Tokyo and Osaka, and several flight to other cities in Japan. There are also flight from/to Shanghai and Seoul. Also there are hourly train service from Fukuoka to Nagasaki train station, which takes about 2 hours.

City of Nagasaki is located at west edge of Japan. As one of Japan's closest port cities to the Asian continent, Nagasaki has played a prominent role in foreign trade relations for many centuries and was the only port open to foreign traders during Japan's period of isolation. This colorful history, in which traditional Japanese culture and overseas culture has coexisted and harmonized, is evident in the region's architecture, food, and annual events.

City of Nagasaki is also famous for night view, and it was selected as one of three magnificent night views of the world.

Further details of Nagasaki: Nagasaki City Tourism Guide Amazing Nagasaki

<http://travel.at-nagasaki.jp/en/>



Conference topics

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

Important dates

- February 05, 2016: Abstract Submission Deadline
February 22, 2016: Notification of Acceptance
April 04, 2016: Full Paper Submission (Optional) Deadline
April 04, 2016: Deadline of Pre-registration
May 22 - 26, 2016: Conference Dates

Local organizing committee

General Chair:
Hideyuki Azegami (Nagoya University)

Vice Chairs:
Katsuyuki Suzuki (University of Tokyo)
Masao Arakawa (Kagawa University)

Secretary General:
Masatoshi Shimoda (Toyota Technological Institute)

Secretary:
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Hiroshi Hasegawa (Shibaura Institute of Technology)

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Shinji Nishiwaki (Kyoto University)

Advisory:
Makoto Ohsaki (Kyoto University)
Jiro Sakamoto (Kanazawa University)
Satoshi Kitayama (Kanazawa University)

Further details of the congress will be announced on the website:

[http:// www.acsmo2016.com](http://www.acsmo2016.com)