Registration fees

IACM member: 50,000 yen (Late registration: 55,000 yen)
Non-IACM member: 55,000 yen (Late registration: 60,000 yen)
Student: 25,000 yen (Late registration: 30,000 yen)

Conference excursion

During the conference, a half day excursion to some areas damaged by the Great East-Japan Earthquake and Tsunami on 11th March 2011 is planned for participants to witness the efforts of recovery / reconstruction in the quake- and tsunami-scarred regions.

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Secretary email: secretary@compsafe2014.org

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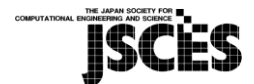APACM Thematic Conference & IACM Special Interest Conference

1st International Conference on
Computational Engineering and Science for Safety and Environmental Problems (COMPSAFE 2014)

13 – 16 April 2014
Sendai International Center, Sendai, Japan

Supporting Organizations

The Asian Pacific Association for Computational Mechanics

iacm

災害科学国際研究所
IRIDeS
International Research Institute of Disaster Science

JACM

THE JAPAN SOCIETY FOR COMPUTATIONAL ENGINEERING AND SCIENCE
JSCES

Objective

In recent years, huge scale natural disasters have occurred worldwide due to global warming, earthquake / tsunami and others. Since there are numerous vulnerable areas in Asian-Pacific regions, those disasters influence the regions significantly. Also our modern society has become a kind of complex system containing a number of technologies and technological systems. Technological failure might cause significant impact to human lives. Emerging computational engineering and science technologies are expected to give us powerful tools to solve such complicated safety-related and environmental problems. Thus the Japan Association for Computational Mechanics (JACM), the Japan Society for Computational Engineering and Science (JSCES), and International Research Institute of Disaster Science, Tohoku University have decided to co-organize a new APACM Thematic Conference and an IACM Special Interest Conference, COMPSAFE2014 (1st International Conference on Computational Engineering and Science for Safety and Environmental Problems) during 13-16 April 2014 in Sendai, Japan. The conference topics are computational mechanics, and computational engineering and science technologies, and their applications related to (1) safety- / risk-related, disaster-preventing topics including various types of natural hazards such as earthquake, tsunami, typhoon / hurricane / cyclone, flood, explosion of volcano, land slide, (2) any kinds of accidents and failures of engineering artifacts such as fractures, crashes, explosion, and (3) environmental and social problems such as air / water pollution, radioactive contamination, global environment problems, evacuation and so on. We hope this conference will play a role of corporate experts network in those fields and push forward the technologies in those fields.

Important dates

Online submission of minisymposia proposals	15 May 2013
Deadline for minisymposia proposals	1 September 2013
Online submission of abstracts	1 October 2013
Deadline for abstract submissions	1 December 2013
Notification of acceptance	15 December 2013
Online submission of extended abstracts	15 January 2014
Deadline for extended abstract submissions	1 March 2014
Deadline for early registration	1 March 2014

http://www.compsafe2014.org/

Secretary email: secretary@compsafe2014.org

Conference topics

Categories:

Safety- / risk-related, disaster-preventing topics including various types of natural hazards such as earthquake, tsunami, typhoon / hurricane / cyclone, flood, explosion of volcano, land slide

Any kinds of accidents and failures of engineering artifacts , i.e. civil construction, building, power/chemical/bio plants, machines, devices such as fractures, crashes, explosion, fire

Environmental and social problems such as air / water pollution, radioactive contamination, global environment problems, evacuation and so on

Methodologies:

Finite element methods
Finite volume methods
Finite difference methods
Boundary element methods
Meshless methods
Particle methods
Other computational methods

Phenomena / Targets:

Acoustics
CAD / CAE Systems
Combustion / Fire / Explosion
Control / Estimation / Identification
Coupled Problems / Multiphysics Problems
Data Assimilation
Design / Optimization / Sensitivity Analysis
Earthquake Engineering
Environmental Fluid Mechanics
Fluid Dynamics
Fluid-Structure Interaction
Failure / Fracture Mechanics / Damage Mechanics
Free-surface Flows
Geophysical Fluid Dynamics
Grid / Cloud / GPGPU Computing
High-Performance Computing
High-Quality Computing
Hydrodynamics
Inverse Analysis

Mathematics of Computational Methods
Mesh Generation
Multiphase Flows
Multiscale Problems
Nonlinear Behaviors of Solids
Pre/Post Processing
Resilience Engineering
Shallow Water Flows
Soft and Intelligent Computing
Soil-Structure Interaction
Stochastic Approaches
Structural Collapse
Tsunami / Storm Surge / Flood
Reliability/ Risk Analyses
Turbulence
Verification and Validation
Virtual / Augmented Reality
Vulnerability of Buildings
Wind Engineering
Wave Propagation

Call for minisymposia proposals

A minisymposium consists of one or more technical sessions that focus on a specific topic or research area in the scope of COMPSAFE. The technical sessions provide a flexible format that accommodates keynote lectures, invited, and contributed papers. Volunteer minisymposium organizers will develop each minisymposium individually. The organizers are responsible for the technical content of their minisymposium; they select the invited participants, and review abstracts of contributed papers.

All proposals must be sent to the secretary by email. There should be at least two organizers for each minisymposium, and it is desirable that they represent more than one institution. The deadline for minisymposia proposals is 1 September, 2013.

Call for technical papers

All technical papers, including keynote, invited, and contributed presentations, will be presented within one of the minisymposia. One-page abstracts in PDF format are required for all papers. Abstracts must be submitted to one of the accepted minisymposia organizers for review.

All abstracts must be submitted electronically using the abstract submission system that will be available on the Conference web site, beginning 1 October, 2013. The deadline for abstract submission is 1 December, 2013.

About Sendai

Sendai is a city with a population of one million, and is the political and economic center of Japan's Tohoku (northeast) Region. Although Sendai is a large city, it is known throughout Japan as a modern city in harmony with nature. The city possesses beautiful scenery, such as the Hirose-gawa River that runs through central Sendai, and the lush zelkova trees that line its streets. Greenery is especially abundant in the center of the city, which has tree-lined streets and parks. As a result, Sendai is called the "City of Trees."

Sendai has many universities and is also well known as an academic city. Its universities and research institutes have been contributing to the development of the high-tech industry.

Sendai is located approximately 300 kilometers (180 miles) north of Tokyo on the Pacific coast of Honshu (the largest of Japan's four major islands). Sendai lies in the center of the Tohoku (northeast) Region, one of the seven major regions in Japan.

It takes about 1 hour and 40 minutes to reach Sendai from Tokyo on the Tohoku Bullet Train (Tohoku Shinkansen). Sendai also has regular flights to and from major domestic and international cities such as Narita International Airport and Kansai International Airport.