

Registration fees

IACM member: 60,000 yen (Late registration: 70,000 yen)
 Non-IACM member: 65,000 yen (Late registration: 75,000 yen)
 Student: 30,000 yen (Late registration: 35,000 yen)

Conference excursion

During the conference, a half day excursion to some memorial places damaged by the Great Hanshin-Awaji Earthquake which occurred in 1995, and also some places miraculously rebuilt from the disaster, is planned for participants to witness the efforts of recovery / reconstruction in the quake-scarred regions.

Conference committees

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December 8 – 11, 2020

Kobe International Conference Center, Kobe, Japan



Hosting Organizations



Supporting Organizations



COMPSAFE 2020 website: www.compsafe2020.org

Secretary email: secretary@compsafe2020.org

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Objective

Following the success of the first conference held in Sendai, Japan, during April 2014, and the second conference held in Chengdu, China, during October 2017, the Japan Society of Computational Engineering and Science (JSCES) and the Japan Association for Computational Mechanics (JACM) will jointly host the 3rd International Conference on Computational Engineering and Science for Safety and Environmental Problems (COMPSAFE2020) which will be held during December 8-11, 2020, in Kobe, Japan. This conference series is an APACM Thematic Conference and an IACM Special Interest Conference, aimed to bring together researchers and scientists from all over the world, who fight daily in the field of disaster prevention and mitigation, structural and material failure, safety and security maintenance, and so on. Other main topics of the conference include, but are not limited to: computational mechanics, 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, material failures, radioactive contamination, global environment problems, evacuation and so on. We hope this conference will play a role of creating networks between academia and industries and push forward the technologies in those fields.



Important dates

Online submission of minisymposia proposal opens	March 1, 2020
Deadline for minisymposium proposals	April 12, 2020
Online submission of abstracts opens	May 15, 2020
Deadline for abstracts submission	July 17, 2020
Notification of acceptance	August 31, 2020
Online submission of extended abstracts opens (optional)	September 1, 2020
Deadline for early registration	September 15, 2020
Deadline for extended abstracts submission (optional)	October 16, 2020

COMPSAFE 2020 website: www.compsafe2020.org

Secretary email: secretary@compsafe2020.org

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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
Meshfree methods
Particle methods
Other computational methods

Phenomena / Targets:

Acoustics	Mathematics of Computational Methods
CAD / CAE Systems	Mesh Generation
Combustion / Fire / Explosion	Multiphase Flows
Control / Estimation / Identification	Multiscale Problems
Coupled Problems / Multiphysics Problems	Nonlinear Behaviors of Solids
Data Assimilation	Phase-field Methods
Design / Optimization / Sensitivity Analysis	Pre/Post Processing
Earthquake Engineering	Resilience Engineering
Environmental Fluid Mechanics	Shallow Water Flows
Fluid Dynamics	Soft and Intelligent Computing
Fluid-Structure Interaction	Soil-Structure Interaction
Failure / Fracture Mechanics / Damage Mechanics	Stochastic Approaches
Free-surface Flows	Structural Collapse / Impact analyses
Geophysical Fluid Dynamics	Tsunami / Storm Surge / Flood
Grid / Cloud / GPGPU Computing	Reliability / Risk Analyses
High-Performance Computing	Turbulence
High-Quality Computing	Verification and Validation
Hydrodynamics	Virtual / Augmented Reality
Inverse Analysis	Vulnerability of Buildings
Mathematics of Computational Methods	Wind Engineering
Mesh Generation	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 submitted electronically via the Conference web site. 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 April 12, 2020.

Call for technical papers

All technical papers, including keynote 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 May 15, 2020. The deadline for abstracts submission is July 17, 2020.

About Kobe

Kobe is the capital of Hyogo Prefecture with its population of about 1.53 million, designated by government as one of twenty major cities in Japan. Located between the sea and the Rokko mountain range, Kobe is also considered as one of Japan's most attractive cities for both domestic and international tourists. Kobe has also been an important port city for many centuries, and was among the first to be opened to foreign trade in the 19th century. In 1995, Kobe was hit by the Great Hanshin-Awaji Earthquake. Today the city has been recovered completely from the disaster, and few signs of the terrible event remain now. Kobe is home to many attractions: Arima Onsen, one of the oldest Hot Springs in Japan; The "ten-million-dollar night view" from the top of Mt. Rokko; Akashi Kaikyo Bridge, the longest suspension bridge in the world; Kobe beef, the world-famous melt-in-your-mouth beef; Sake breweries, where you can see how sake is produced. Kobe is close to three airports in the Kansai area (Kansai International Airport, Osaka International Airport, and Kobe Airport) and has a Shinkansen station (Shin-Kobe), offering excellent access, from both international and domestic locations.

