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.

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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 failures, 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, 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.

**Objective**

**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
- 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
- Inverse Analysis
- Mathematics of Computational Methods
- Mesh Generation
- Meshfree methods
- Multiscale Problems
- Nonlinear Behaviors of Solids
- Phase-field Methods
- Pre/Post Processing
- Probability
- Resilience
- Reliability
- Shallow Water Flows
- Soft and Intelligent Computing
- Soil-Structure Interaction
- Stochastic Approaches
- Structural Collapse / Impact analyses
- Tsunami / Storm Surge / Flood
- Turbulence
- Verification and Validation
- Virtual / Augmented Reality
- Wind Engineering
- Wave Propagation

**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

**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.

**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.

**COMPSAFE 2020 website:** www.compsafe2020.org

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