

## Call for Papers



### International Forum on Engineering Decision Making

#### **Eighth Forum: Decision-Making Beyond the Engineering Community**

May 6 – 9, 2015  
Hieizan, Enryakuji-kaikan  
Shiga, Japan



**Chair: Kazuyoshi Nishijima, Kyoto University**  
email: [nishijima.kazuyoshi.5x@kyoto-u.ac.jp](mailto:nishijima.kazuyoshi.5x@kyoto-u.ac.jp)  
IFED Web: <http://www.taifu.dpri.kyoto-u.ac.jp/ifed/>

## **Theme of the eighth IFED Forum:**

Decision-Making Beyond the Engineering Community, including the topics:

- Societal disparity
- Developing society and stages of economic development
- Ethics and cultural issues
- Societal risk management
- Non-engineered systems
- Historic/traditional structures
- Applicability for engineering risk approach
- Transformation of society/economy
- Resilience, recovery issues e.g. delivery of medical services
- Intergenerational equity
- Better decision making beyond discipline borders
- Societal-need-oriented decision making

## **Background and motivation**

The IFED forums are concerned with engineering decision-making that is based on the assessment of engineering risks. Since quantification and understanding of risks are important elements of risk-based decision-making, the eighth forum sheds light on issues that have not been intensively investigated within the engineering research community. These include societal, cultural, ethical and traditional issues that must be considered in many decision situations of engineering projects. It also focuses on systems that have not been much examined in the community.

## **Aim of the eighth IFED forum**

The single-session IFED forum format brings together experts in the field of decision making, risk and reliability analysis, and probabilistic modelling who have specific interests in the themes of the forum. The objectives are:

- To outline current challenges related to decision-making that requires inputs beyond the engineering community.
- To discuss and to present possible solutions and applications.
- To develop directions for future research in the field.

Discussion, collegiality, and dialogue are the key ingredients of a successful IFED forum. The programme of the forum provides plenty of opportunity to interact. At the end of each IFED forum a joint conclusion is formulated by all the participants in the IFED forum.

## **Venue and format of the eighth IFED forum**

The eighth IFED forum will be held in Japan at Hieizan\*, Enryakuji-kaikan\*\* located near Kyoto. Since its establishment by Saicho, the location has been seen as a holy place as well as an utmost important place for mediation, training and education for more than 1200 years. It was registered as a UNESCO's World Cultural Heritage Site in 1994.

### Tips

\*Hieizan in Japanese writes 比叡山. "Zan (san)" means mountain. Thus, Hieizan stands for Mt. Hiei.

\*\* Enryakuji-kaikan in Japanese writes 延暦寺会館. "Ji" means temple. "Kaikan" means, in this case, accommodation.

### Links

Enryakuji-kaikan, <http://syukubo.jp/> (Japanese language only)

Hieizan, <http://www.hieizan.or.jp/>, (for English, click "English")

The eighth IFED forum will start with a vegetarian, "enlightened", ice-breaking reception on Wednesday evening 6 May (alcohol provided!), an IFED banquet on Friday evening 8 May in downtown Kyoto, and conclude lunchtime on Saturday 9 May. Thursday whole day, Friday morning and Saturday morning will be devoted to presentations and discussions, and conclusions. On Friday after lunch, an outdoor group activity and excursion will take place, followed by the IFED banquet.

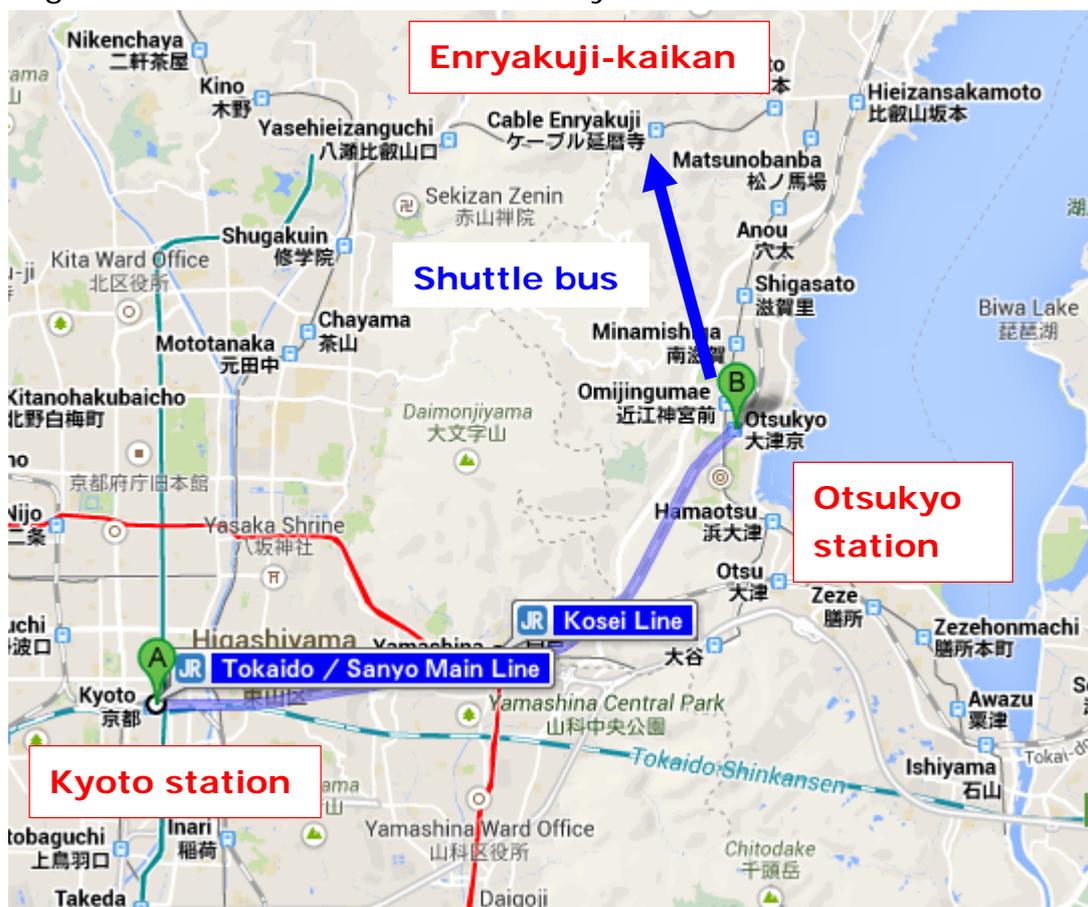
The registration fee for the forum includes all lunches, all refreshment-breaks, excursion, ice-breaking reception and Fridays' banquet. The registration fee is expected to be approximately 35000JPY (350USD) for delegates and partners. Registration details will be provided at a later date.

### **Access to venue**

Arriving at Kyoto station: arrive at Kansai International Airport and take an express train, called Haruka, to Kyoto station. It takes approx. 1.5 hours.

If you arrive at Narita Airport in Tokyo, take an express train, called Narita Express, to Tokyo Station. It takes approx. 1 hour. Then, change trains to Shinkansen. From Tokyo station to Kyoto station with "Nozomi," it takes approx. 2.5 hours. If you arrive at Haneda Airport in Tokyo, take a Keikyu train to Shinagawa station. Then, change trains to Shinkansen.

From Kyoto station to the venue: take a local train to Otsukyo station (11 min); we arrange shuttle bus service from Otsukyo station to the venue.



Should you prefer to arrive earlier or the provided service is not convenient for you, please contact us and we provide information to reach there.

## Rooms

Both Japanese-style and western-style rooms (the number of western-style rooms is limited, though) are available. Private toilets and bathrooms are provided for both types of rooms.



## **Notification of participation**

Please indicate your interest in participating in the forum by sending a short e-mail (including name, affiliation, address, phone, fax and preliminary paper title) to [nishijima.kazuyoshi.5x@kyoto-u.ac.jp](mailto:nishijima.kazuyoshi.5x@kyoto-u.ac.jp) with the subject including "IFED2015 registration". The final programme of the conference including timetables will be available from March 2015.

## **Abstracts and papers**

Detailed one-page abstracts of proposed papers for the forum must be submitted by 1 December 2014 by e-mail to [nishijima.kazuyoshi.5x@kyoto-u.ac.jp](mailto:nishijima.kazuyoshi.5x@kyoto-u.ac.jp) with the subject including "IFED2015 abstract". Invitations to present papers at the forum will be strictly based on review and acceptance of the abstracts. Notification of abstract acceptance will be given in January 2015. As with previous IFEDs, written papers can be provided to delegates during the conference (i.e., authors bring copies of their paper for distribution at IFED).

## **Special Issue**

Following the IFED forum, authors of selected papers will be invited to submit a revised or expanded version of their IFED paper to a special issue of a selected journal.

## **IFED**

IFED is an international organization with the mission to stimulate new initiatives in engineering decision making and risk analysis for engineering systems. It meets these objectives by organizing on a regular basis open international forums that focus on specific themes, providing a widely accessible publication of the contributions and of the conclusions of the forums.

Seven previous forums have taken place:

December 2004

Stoos (Switzerland)

Theme: Consequence Modelling in Engineering Decision Making

April 2006

Lake Louise (Canada)

Theme: Decision Making Involving Spatially Distributed Systems

December 2007

Port Stephens (Australia)

Theme: Optimal Strategies for Disaster and Hazard Mitigation

May 2009

Hakone (Japan)

Theme: \_Long-term Policy Makings for Sustainable Society

December 2010

Stoos (Switzerland)

Theme: \_Global Catastrophic Risk Management - New Insights and Challenges

January 2012

Lake Louise (Canada)

Theme: Risk for Temporary Systems, Temporary Structures, and Short-Term

December 2013

Port Stephens (Australia)

Theme: Uncertain futures under a changing climate

#### Activities

Each forum has attracted 25-40 participants, and selected papers appearing in special issues of *International Journal of Risk Assessment and Management*, *Civil and Environmental Engineering Systems*, *Australian Journal of Structural Engineering*, *International Journal of Engineering under Uncertainty: Hazards, Assessment and Mitigation*, and *Structure and Infrastructure Engineering*

#### **IFED consortium**

Kazuyoshi Nishijima, Kyoto University, Japan (current chair)

Michael Faber, Technical University of Denmark, Denmark (current vice-chair)

Mark Stewart, University of Newcastle, Australia

Stuart Reid, University of Sydney, Australia

Marc Maes, University of Calgary, Canada

Ross Corotis, University of Colorado, USA

#### Emeritus

Jun Kanda, University of Tokyo, Japan (IFED co-founder)

#### **IFED advisory council**

Arvid Naess, Norwegian University of Science and Technology, Norway

Bazzurro, Paolo, Air-Worldwide, USA

Breyse, Denys, CDGA, France

David Elms, University of Canterbury, New Zealand

Goyet, Jean, Bureau Veritas, France

Hall, Jim, Newcastle University, Newcastle upon Tyne, UK  
Haukaas, Terje, University of British Columbia, Vancouver, Canada  
Jordaan, Ian, Memorial University of Newfoundland, St. John's, Newfoundland,  
Canada  
Kroon, Inger, COWI Consulting Engineers, Lyngby, Denmark  
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Seville, Erica, University of Canterbury, New Zealand  
Sorensen, John, University of Aalborg, Denmark  
Straub, Daniel, TUM, Munich, Germany  
Sudret, Bruno, Phiméca Engineering, Paris, France  
Takada, Tsuyoshi, University of Tokyo, Japan  
Val, Dimitri, Heriot-Watt University, Edinburgh, UK  
Vrijling, Han, Technical University of Delft, the Netherlands