

# FAST-zero '21



## 6<sup>th</sup> International Symposium on Future Active Safety Technology Toward zero traffic accidents

### Introduction

FAST-zero'21 will be held in Kanazawa, a historical place of Japan after the successful 5th symposium in Blacksburg, Virginia. Following the tradition of FAST-zero symposia, we will bring together researchers and engineers from industry and academia to present the current state-of-the art and progress in research and development of active safety technologies.



Last symposium: FAST-zero '19

Innovation in the field of active safety is the key driving force towards the ultimate goal of realizing zero traffic-accidents. Researchers around the world have been investigating methods for active safety to reduce and possibly eliminate the number of traffic accidents as well as road fatalities. Especially, automated and connected vehicles have the potential to enhance safety through new

sensors, dynamic map, artificial intelligence and other technologies that have experienced a great improvement in the last years. The organizers are looking forward to your contribution and to seeing you at FAST-zero'21.

### Organized by

FAST-zero'21 Organizing Committee of the Society of the Automotive Engineers of Japan, Inc. (JSAE)

### In Association with

- International Federation of Automotive Engineering Societies (FISITA)
- International Association of Traffic and Safety Sciences (IATSS)
- International Federation of Automatic Control, Technical Committee on Automotive Control (IFAC)
- Ishikawa Prefecture
- ITS-Japan
- Japan Society of Mechanical Engineers (JSME)
- Society of Instrument and Control Engineers (SICE)

### Organization

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Y. Suda (Univ. of Tokyo)

#### Organizing Committee

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M. Aga (Toyota Motor)  
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Y. Mikuriya (Nissan Motor)  
T. Miyamoto (Hino Motor)  
S. Yamada (Honda R&D)  
K. Yoshimoto (Univ. of Tokyo)

#### Local Organizing Committee

N. Suganuma (Kanazawa Univ.): Chair

### International Scientific Committee

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M. Nagai (Japan)  
S. Schneider (Germany)  
K. Suzuki (Japan)  
T. Wada (Japan)  
K. Yi (Korea)

### Call for Papers

Prospective authors intending to present their research at FAST-zero'21 symposium should select one of **three following categories** for paper submission.

#### a. Scientific paper

Scientific paper is the traditional style of FAST-zero symposia proceedings, containing minimum 4-page paper (up to 6 pages) for final submission. For authors who wish to publish their research works in international peer-reviewed journals, we recommend the authors submit the revised manuscripts to "International Journal of Automotive Engineering (IJAE)" published by JSAE. The peer review process will be conducted after the symposium.

#### b. Industrial/Technical paper

Industrial/Technical paper requires less technical details than Scientific paper to lighten the workload in preparing the manuscripts for industrial engineers. Typically, 2-page paper is required for submission.

#### c. Invited presentation (Organized Session)

This category is opened for organizers of research projects related to symposium topics. Prospective organizers should indicate the session title, the session description, the expected number of potential speakers (the list of speakers, if possible). The speakers will present at the symposium without requiring paper submission.

### Important Dates

Deadline for abstracts:	<b>March 31, 2021</b>
Notification of acceptance:	<b>April 30, 2021</b>
Deadline for Organized session:	<b>April 30, 2021</b>
Deadline for full papers:	<b>July 16, 2021</b>
Deadline for author registration:	<b>July 16, 2021</b>

## Symposium Topics

FAST-zero'21 topics will cover the wide range of active safety technology topics including but not limited to:

- On-Board Sensing Active Safety System
  - Autonomous Driving Technology & Driver Assistance Systems
  - Vehicle Dynamics Control
  - Vehicular Sensors and Environment Perception
- Communication-Based Active Safety System
  - Connected Vehicles & Cooperative Driver Assistance System
  - ITS and ICT for Safety Applications
- Driver Characteristics and Human Factor
  - Driver Monitoring
  - Driver Behavior Modeling
  - Driver Assessment and Training
  - Cooperation between Driver and Assistance Systems
  - Human Machine Interface
- Active Safety Testing Method and Assessment
  - Safety Impact Assessment of Active Safety Devices
  - Driving Simulator
  - Modeling and Simulation
  - Field Operational Test
- Other Related Topics on Active Safety

## Official Language for Papers & Presentations

The official language of the symposium for both paper and presentation is English. Oral presentation will be made in parallel sessions during the symposium. Presentation will be limited to 25 minutes, including a 10-minute question-and-answer session. All contributed papers will be published in the FAST-zero '21 proceedings.

## Paper Submission

Prospective authors are requested to submit an extended abstract in English, describing the problem definition, method and results expected or obtained. This should include figures and tables and is limited to **two pages (A4) for scientific paper**, or **one page (A4) for industrial paper**. PDF format is preferable.

Authors should pre-register on the symposium website in order to submit an extended summary. The submitted summaries will be reviewed by the international scientific committee members. Successful authors will be required to submit a full paper, limited to **6 pages (min. 4 pages) for scientific paper**, or **2 pages (up to 3 pages) for industrial/technical paper**.

Paper Submission site: <http://www.fast-zero21.info/>

At least one author for scientific/industrial paper must register and pay the symposium registration fee before the electronic submission of full paper. Accepted full papers with registered author(s) will be published in Symposium Proceedings.

## Awards and Journal Publication

Best papers will be awarded, nominated by a panel of the FAST-zero international scientific committee.

Outstanding papers selected by the committee will be recommended for publication in IJAE of JSAE.

## Registration

All delegates, including those presenting papers, are expected to register for the symposium. Registration includes the symposium proceedings, book of abstracts, attendance at all plenary and technical sessions, refreshments, welcome reception and FAST-zero party.

Symposium registration fee:

¥60,000 until June 30, 2021.

¥70,000 after July 1, 2021.

¥35,000 students (No early discount)

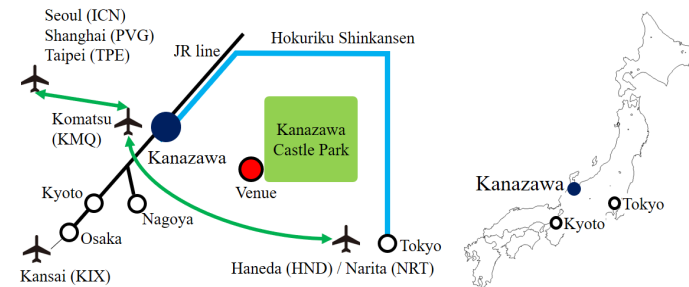
Discount fees for accompanying persons are considered.

If FAST-zero'21 cannot be held in Kanazawa, the symposium will be held via Web conference.

## Symposium Venue

The symposium will be held at the Kanazawa Chamber of Commerce and Industry, near Kanazawa Castle Park. The venue can be reached by bus within about 10 minutes from JR-Kanazawa station.

Address: Oyama-machi, Kanazawa-city, Ishikawa 920-8039, Japan



## Correspondence

All inquiries and proposals concerning the symposium should be addressed to FAST-zero'21 Secretariat:

E-mail: [fast-zero21@jtbcom.co.jp](mailto:fast-zero21@jtbcom.co.jp)

## *First Announcement and Call for Papers*

# *FAST-zero '21*



## *6th International Symposium on Future Active Safety Technology Toward zero traffic accidents*

*Sep. 27 to Oct. 1, 2021*

*Kanazawa, Japan  
at the Kanazawa Chamber of  
Commerce and Industry*

*Deadline for Abstracts: March 31, 2021*

*URL: <https://www.fast-zero21.info/>  
E-mail: [fast-zero21@jtbcom.co.jp](mailto:fast-zero21@jtbcom.co.jp)*

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**In Association with**

