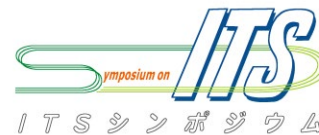


20th ITS Symposium 2022

8-9 December, 2022



Kashiwa-No-Ha Conference Center / Kashiwanoha Campus Station Satellite*1

Call for Papers

ITS, which has linked information and communication technology with traffic and vehicles to advance the transportation, has contributed to the social implementation of high-performance in-car navigation systems, ETC, and the more advanced ETC2.0, and is expected to continue to evolve further and function in society in the future. Expectations for automated driving are also growing in society: in 2019, the Road Traffic Act and the Road Vehicles Act was revised to allow automated driving, equivalent to SAE Automation Level 3, on public roads and in March 2021, automobiles equipped with Level 3 functions were produced. Following this, the Road Traffic Act is expected to be revised in 2022 to correspond to SAE's Level 4 automation. ITS is not only a technology for driving assistance by analyzing traffic data and providing information to drivers, but is also expected to be involved in vehicle control, and further technological innovation will be demanded in the future.

On the other hand, Level 4 automated mobility services are expected to make public transportation sustainable, which is becoming increasingly difficult to maintain, and to provide safe and comfortable mobility in the midst of social issues such as depopulation and aging populations. This innovation will not be limited to the technological development of vehicles alone, but will evolve cities in response to changes in society. To achieve this, it is necessary not only to focus on solving technological problems, but also to consider what kind of lifestyle makes people happy, and to think about how mobility should be in the context of a society that is becoming more cyber-physical as data linkage progresses.

Kashiwa City is promoting the Smart City Project, and particularly in the Kashiwa-no-ha district, where the symposium will be held, various demonstrations of new technologies are being conducted mainly by universities and companies. We look forward to discussing ITS that will lead to the social implementation of next-generation mobility services with symposium participants in Kashiwa-no-ha, where innovation is being actively incorporated to realize comfortable lifestyles.

The Program Committee invites ITS researchers and practitioners to submit a paper to be considered for presentation and publication at the 20th ITS Symposium. The Committee offers two options, submitting a full paper or submitting an abstract. Full papers will go through the journal's standard peer-review process and, if accepted for publication, will be included in *International Journal of Intelligent Transportation Systems Research (IJIT)**2.

*1 Depending on the spread of COVID-19, the Symposium may be held online or as a hybrid conference.

*2 International Journal of Intelligent Transportation Systems Research: <https://www.springer.com/journal/13177>

SUBMISSION INSTRUCTIONS

FULL PAPER SUBMISSION (PEER-REVIEW PROCESS)

- Authors are requested to submit a paper by **1 June, 2021**.
- The official language of papers is **English only**. A maximum length is 10 pages of A4-size paper. Templates can be downloaded at https://www.its-jp.org/katsudou/its_symposium/20th2022/cfp/
- Login as an author to the IJIT website <http://www.editorialmanager.com/ijit/>. Choose "ITS Symposium" from the pull-down menu of Article Type.
- In principle, the journal publication decision will be made by **the end of October 2021**. Even if a decision has not been made at this point, it is still able to remain in the review process and the paper can be published at the later issues.
- The accepted papers will be included into regular issues of the IJIT, and it is expected to be published by **the end of December**. No fees are charged to the contributors.
- **Regardless of the publication status, authors will be required to make a presentation in the Symposium.** To avoid submission conflicts with the IJIT, the symposium will post only abstracts of the submitted papers on the web proceedings provided for registrants.

ABSTRACT SUBMISSION (ABSTRACT REVIEW PROCESS)

- Authors are requested to submit an abstract by **15 August, 2021**.
- The language of abstracts should be Japanese or English. Expected volume is 250 characters in Japanese or 100 words in English.
- Access https://www.its-jp.org/katsudou/its_symposium/20th2022/cfp/ to register abstract with the paper information.
- Authors are notified of the publication decision by the end of September 2022.
- If an abstract has been accepted, the author will be requested to submit the final paper by **4 November, 2022**. The papers will be posted on the web proceedings provided for registrants.

In human subjects research, you must respect the dignity and human rights of research subjects, and consider their life, health, and safety. Data and information pertaining to the subjects must be handled appropriately and their privacy must be protected. Informed consent must be obtained from the subjects. In addition, you need to obtain approval from the ethics committee of the institution you belong to before planning and conducting the research.

IMPORTANT DATES

FULL PAPER SUBMISSION

- Submission Deadline 1 June
- First Notification End of July
- Revision Submission End of August
- Journal Acceptance Notice End of October
- Publication in IJIT In order of acceptance
- Publication in proceedings 21 November

ABSTRACT SUBMISSION

- Submission Deadline 15 August
- Acceptance Notice End of September
- Final Paper Submission Deadline 4 November
- Presentation Submission Deadline Middle of November
- Publication in Proceedings 21 November

REGISTRATION FEES

Type	To 30 November, 2022		From 1 December, 2022	
	Member	Non-Member	Member	Non-Member
Speaker		¥15,000		
Delegate	¥15,000	¥20,000	¥18,000	¥23,000
Student Speaker		¥8,000		
Student Delegate		¥3,000		

20th ITS Symposium 2022

Hosted by:

- ITS Japan

General Chair:

- **Yoshihiro Suda**, Professor, Dept. of Mechanical and Biofunctional Systems, The University of Tokyo
Director, Mobility Innovation Collaborative Research Organization, The University of Tokyo (UTmobl)

Program Chair

- **Kimihiko Nakano**, Professor, Dept. of Mechanical and Biofunctional Systems, The University of Tokyo

Program Committee:

Masahiko Aki, Nihon University

Takayuki Ando, Aichi Steel Corporation

Takuma Ito, The University of Tokyo

Koichiro Iwaoka, Panasonic Connect Co., Ltd.

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Yurie Toyama, Mitsubishi Research Institute

Manabu Tsukada, The University of Tokyo

Kentaro Wada, University of Tsukuba

Hideki Yaginuma, Tokyo University of Science

AREA COVERED

A. Challenges and Opportunities of Big Open Data

- Open data management and application
- Data sharing and exchange
- Ubiquitous sensing
- Technology for data collection
- Availability and quality of data
- Data visualisation
- Data fusion
- Predictive analytics
- New business models for traveller information
- Security in an open environment

B. Smart Cities and New Urban Mobility

- Integrated transport system
- Next generation traffic management
- Transport modelling
- Road user charging
- Travel demand management
- Integrated ticketing and payment
- Incident management

C. Automated Vehicles and Cooperative ITS

- V2X Communication technologies and Cooperative systems
- Human factors and human machine interface
- Field operational tests, pilots and demonstrations
- Positioning, mapping and navigation
- Security and integrity for connected and automated vehicles
- Mobility as a service - a transport revolution?
- Infrastructure and regulation needs for a mixed-capability fleet

D. Mobile Applications

- Multi modal real time information
- Multi modal journey planner
- Demand responsive public transport
- Taxi and parking reservation
- Real time traffic advisory

E. Vehicle and Network Safety

- Speed advice and restriction
- Technology and system for safety and enforcement
- Advanced driver assistance and support systems
- Human factors
- Emergency pre-emption and notification
- Post-crash response
- Improving safety of vulnerable road users
- e-call
- Roadwork safety and inclement weather management
- Preventative and active safety systems

F. Future Freight including Aviation and Maritime

- Freight and fleet management
- Logistics
- Railway network operation
- Unmanned aerial vehicles (UAS / RPAS / Drones)

G. Environmental Sustainability

- Environmental impact reduction
- Electro mobility and charging
- Eco driving
- Reducing noise
- Car sharing, bicycle sharing and ride sharing
- Encouraging active transport and mode shift