

JUNE, 2024

NEWSLETTER

IASED



ICSTTE 2024

ICSTTE 2024
&
CSTFM 2024

2024 International Conference on
SmartRail, Traffic and
Transportation Engineering

CSTFM 2024

2024 International Conference
on Smart Transportation and
Future Mobility



October 18-20, 2024
Hangzhou, China

www.cstfm.org



2024 International
Conference on Smart
Transportation and
Future Mobility
(CSTFM 2024)

WELCOME TO CSTFM 2024

I am pleased to extend my warmest greetings to everyone participating in the 2024 International Conference on Smart Transportation and Future Mobility (CSTFM 2024) which will be held in Hangzhou, China on October 18-20, 2024.

Organized by the Hangzhou Innovation Institute of Beihang University, co-organized by Tongji University and Shanghai Maritime University, CSTFM 2024 will be commenced by creating an amalgamated global platform where enthusiastic researchers, policymakers, stakeholders, and intellectual scholars get together for a common purpose of identifying the challenges and issues in Smart Transportation and Future Mobility and sustainable methods to solve the particular issues by their combined research findings.

CSTFM 2024 will bring all participants a unique experience of stimulating, informative presentations and enjoyable networking opportunities.

On behalf of the Organizing Committee, I welcome everyone in attendance to enjoy the three-day journey!

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CSTFM 2024



CALL FOR PAPERS

Topics of interest for submission include, but are not limited to:

- Optical Communication Networks in ITS
- ITS for Urban Traffic Management
- Autonomous Vehicle Technology and Traffic Integration
- Optical Communication in IoT for ITS
- Behavioral Analytics for Traffic Flow Improvement
- V2I Communication for Traffic Management
- Connected and Automated Mobility (CAM) Services

CONFERENCE CHAIRS



Daxin Tian
Beihang University, China



Zhongyin Guo
Tongji University,
China



Hongtao Hu
Shanghai Maritime University,
China



Hai L. Vu
Monash University,
Australia



October 25-27, 2024 | Chongqing, China

ICSTTE 2024

WELCOME TO ICSTTE 2024

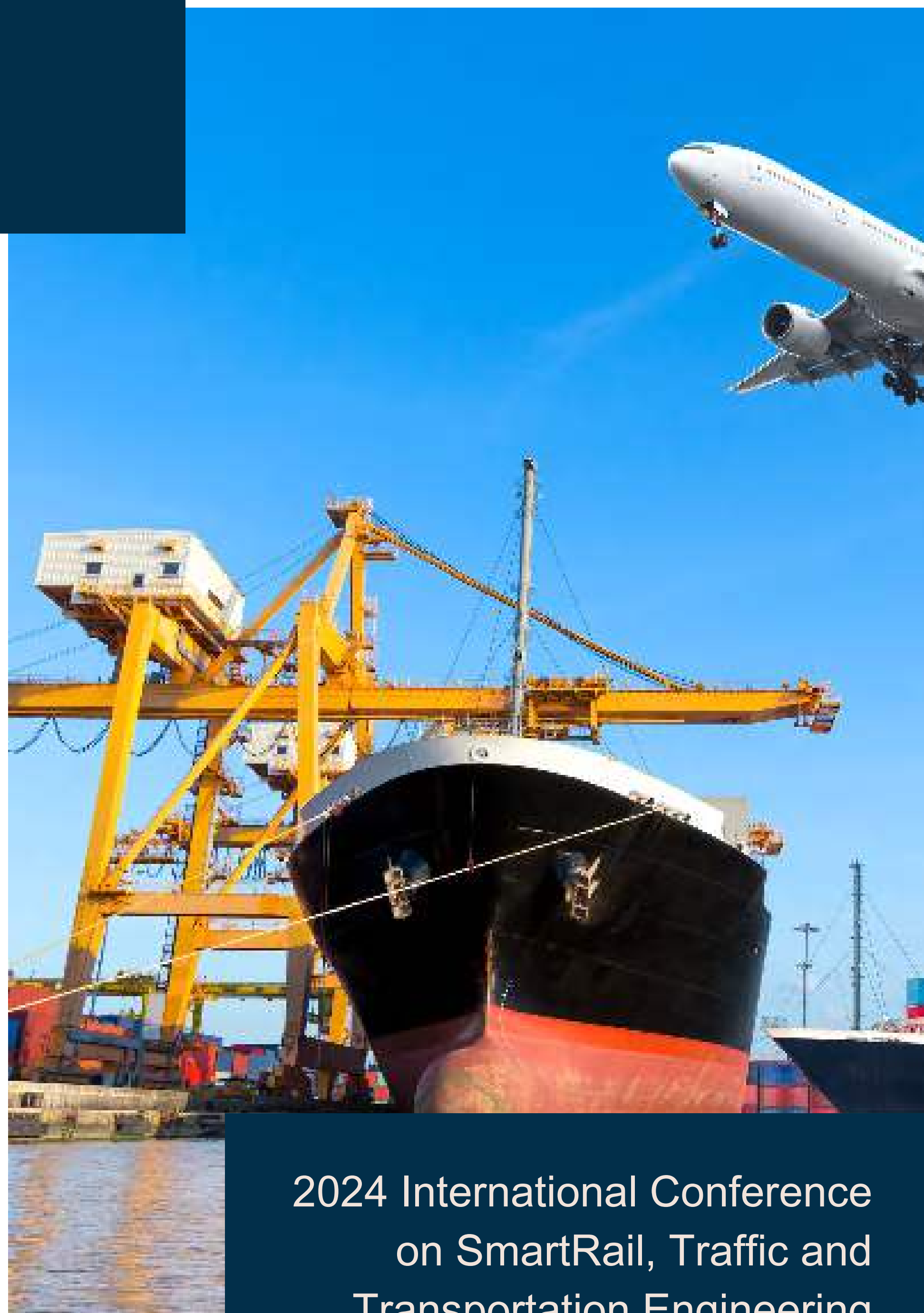
I'm delighted to welcome your participation in 2024 International Conference on SmartRail, Traffic and Transportation Engineering (ICSTTE 2024) on October 25-27, 2024. The conference will be held in Chongqing, China. It is organized by Chongqing Jiaotong University, co-organized by Southwest Jiaotong University.

It's more important than ever that we bring individuals together as an international society and shape our future with relentless endeavor in scientific innovations and discoveries.

The exceptional event is to promote progress in the field of SmartRail, Traffic and Transportation Engineering by hosting a global forum aimed at facilitating discourse and the exchange of ideas among the world's top innovators, scientists, academics, researchers and thought leaders in the field. Over the three days of this conference, you'll have opportunities to hear about the latest developments and changes in an incredibly exciting field.

We are grateful for all the work done by members of Advisory Committee, Organizing Committee, Program Committee and Technical Committee. They embarked early on scheduling and preparing the conference with full support and firm commitment. Special thanks go also to the Organizers for the great effort in making the event possible in such a difficult time.

We are looking forward to your presence and wish you enjoy programs of sharing and interacting.



2024 International Conference
on SmartRail, Traffic and
Transportation Engineering
(ICSTTE 2024)



Professor Maria Pia Fanti

IEEE Fellow

Polytechnic University of Bari

Speech Title: Machine learning and deep reinforcement learning applied in different fields

Abstract: Machine learning (ML) and deep reinforcement learning (DRL) have the potential to bring about significant impacts in automation across various industries and domains. The talk will explain how ML and DRL techniques can be applied in different automation fields: automotive, traffic management and structural health monitoring. Moreover, in each application the role of the simulation is of basic importance for training the agents. Some case studies will be presented in different application areas. Autonomous braking systems based on an intelligent agent trained with DRL can interact with the environment, collect data and react by controlling the vehicle speed when uncontrolled events require an action. DRL approaches are used for efficiently handling by intelligent traffic lights road traffic in road intersections where priority issues are important and autonomous vehicles are involved. Innovative methods based on ML tools are used for detecting damages in steel truss railway bridges to classify raw strain multivariate time series data.

Bio: Maria Pia Fanti received the Laurea degree in electronic engineering from the University of Pisa, Pisa, Italy. She was a visiting researcher at the Rensselaer Polytechnic Institute of Troy, New York, in 1999. Since 1983, she has been with the Department of Electrical and Information Engineering of the Polytechnic University of Bari, Italy, where she is currently a Full Professor of system and control engineering and Chair of the Laboratory of Automation and Control. Her research interests include management and modeling of complex systems, such as transportation, logistics and manufacturing systems; discrete event systems; Petri nets; consensus protocols; fault detection. Prof. Fanti is IEEE fellow and has published more than 340 papers and two textbooks on her research topics.