



# POSTER SESSION – CALL FOR ABSTRACT

## ENVISIONING THE FUTURE TRANSPORTATION WORKFORCE DEVELOPMENT IN AI

---

*When:* During the NSF AI Transportation workshop, **Thursday, Dec. 15, 2022**

*Where:* Hilton University of Florida conference center, Gainesville, Florida

- **NSF AI In Transportation Workshop** is organizing a poster session on Dec 15th.
- Using machine learning **(ML) or AI in your research**? This is a great opportunity to share your work and envision on the **future AI transportation workforce development**.
- Selected abstracts will be granted with **NSF travel awards** and chance to win a **certificate**!
- To participate, please submit the abstract to the **link before Nov 9<sup>th</sup>, maximum 300 words**.

# POSTER SESSION – CALL FOR ABSTRACT

ENVISIONING THE FUTURE TRANSPORTATION WORKFORCE DEVELOPMENT IN AI

---

## Poster session organizing committee

### Session Co-Chair:

Jiahua Qiu – University of Florida (UF)

Hao (Frank) Yang – University of Washington (UW)

**Committee Member:** Hanyu Zhang (UF), Sam Ricord (UW),  
Nutvara Jantarathaneewat (UW), Ollie Wiesner (UW),  
Mukundhan Narasimhan (UF)

Submit the abstract here



Questions?

Email: [nsfaiworkshop@gmail.com](mailto:nsfaiworkshop@gmail.com)



- For more details, scan the QR code or [click here for workshop website.](#)
- Looking for hotel information? [Click here.](#)



## Call for Abstract

### Envisioning the Future Transportation Workforce Development on AI

With quickly growing quantity and variety of transportation data, artificial intelligence (AI) technologies are revolutionizing the transportation field from system management to automated vehicle and infrastructure control. The NSF AI in transportation workshop aims to identify the research and education challenges, and further stimulate transformative research in both transportation and AI communities to serve these needs.

The organizing committee for the workshop invites young professionals, graduate, and undergraduate students to submit abstracts on envisioning the future transportation workforce development in AI, for the student poster session. The poster session will be held during the workshop at the **Hilton University of Florida conference center in Gainesville, Florida, Dec. 15, 2022** (<https://sites.google.com/view/asce-ai/activities/nsf-workshop-ii?authuser=0>). **The selected abstracts will be granted with NSF travel awards.** Judges will review all posters with student authors during the conference. This Call for Abstracts seeks original works that explore the frontiers of AI-empowered methods and solutions, especially technology that can benefit the future workforce development of urban transportation challenges. The list below presents a non-exhaustive set of relevant topics:

- New trends in Intelligent Transportation System (ITS).
- Traffic Data Collection and Perception
- Intelligent Optimization (e.g., traffic assignment, routing, route choice).
- Intelligent and adaptive traffic control (e.g., traffic signal).
- Intelligent monitoring of transportation systems, data collection, filtering, prediction and distribution of traffic information and transportation data.
- Connected and Autonomous vehicles (CAV), cooperative driving technologies.
- Shared mobility models, e.g., car-sharing, ridesharing, bike and e-scooters sharing.
- Big-data Analytics for Transportation.
- Cyber-physical-social systems for ITS.

The abstract should include, but is not limited to, the following aspects:

- What is the main problem being addressed by the study, i.e., goals?
- What AI technologies/tools are developed/used?
- Is there any process to implement this technology in real world scenarios?
- How does the study benefit future transportation workforce development?

Authors who submit abstracts in response to this call are requested to submit the abstract to the following link **before Nov 9, 2022, maximum 300 words.**

<https://docs.google.com/forms/d/e/1FAIpQLSdgeKQsCjqIYvCwf3LQotOkHr0kO-UtibVAXtJOW32Sa1HLRA/viewform?usp=sharing>

The travel cost of the top candidates will be covered by the NSF workshop. If you have any questions, please contact [nsfaiworkshop@gmail.com](mailto:nsfaiworkshop@gmail.com).



**NSF AI in Transportation Workshop Organizing Committee**

- Dr. Yin Hai Wang (Chair), Univ. of Washington
- Dr. Lili Du (Chair), Univ. of Florida
- Dr. Hani S. Mahmassani, Northwestern University
- Dr. Kai Li, Princeton University
- Dr. Xianfeng Yang, Univ. of Maryland – College Park
- Dr. Yaw Adu-Gyamfi, Univ. of Missouri – Columbia
- Dr. Osama Osman, Leidos
- Dr. Samiul Hasan, Univ. of Central Florida
- Dr. Zhe Jiang, Univ. of Florida
- Dr. Simon Du, Univ. of Washington