2-DAY WORKSHOP

PIONEERING TRANSPORTATION INNOVATION WITH GENERATIVE AI

ASCE T&DI Artificial Intelligence in Transportation Committee

Join us for an immersive two-day workshop dedicated to exploring the transformative potential of Generative AI in the transportations sector. This workshop aims to provide participants with a comprehensive understanding of cutting-edge AI techniques and their applications in solving critical transportation challenges. Participants will gain valuable insights into how Generative AI can revolutionize the transportation sector, leading to safer and more efficient mobility solutions.

WORKSHOP HIGHLIGHTS:

- EXPERT-LED SESSIONS AND INTERACTIVE DISCUSSIONS
- NETWORKING OPPORTUNITIES WITH INDUSTRY LEADERS AND PEERS
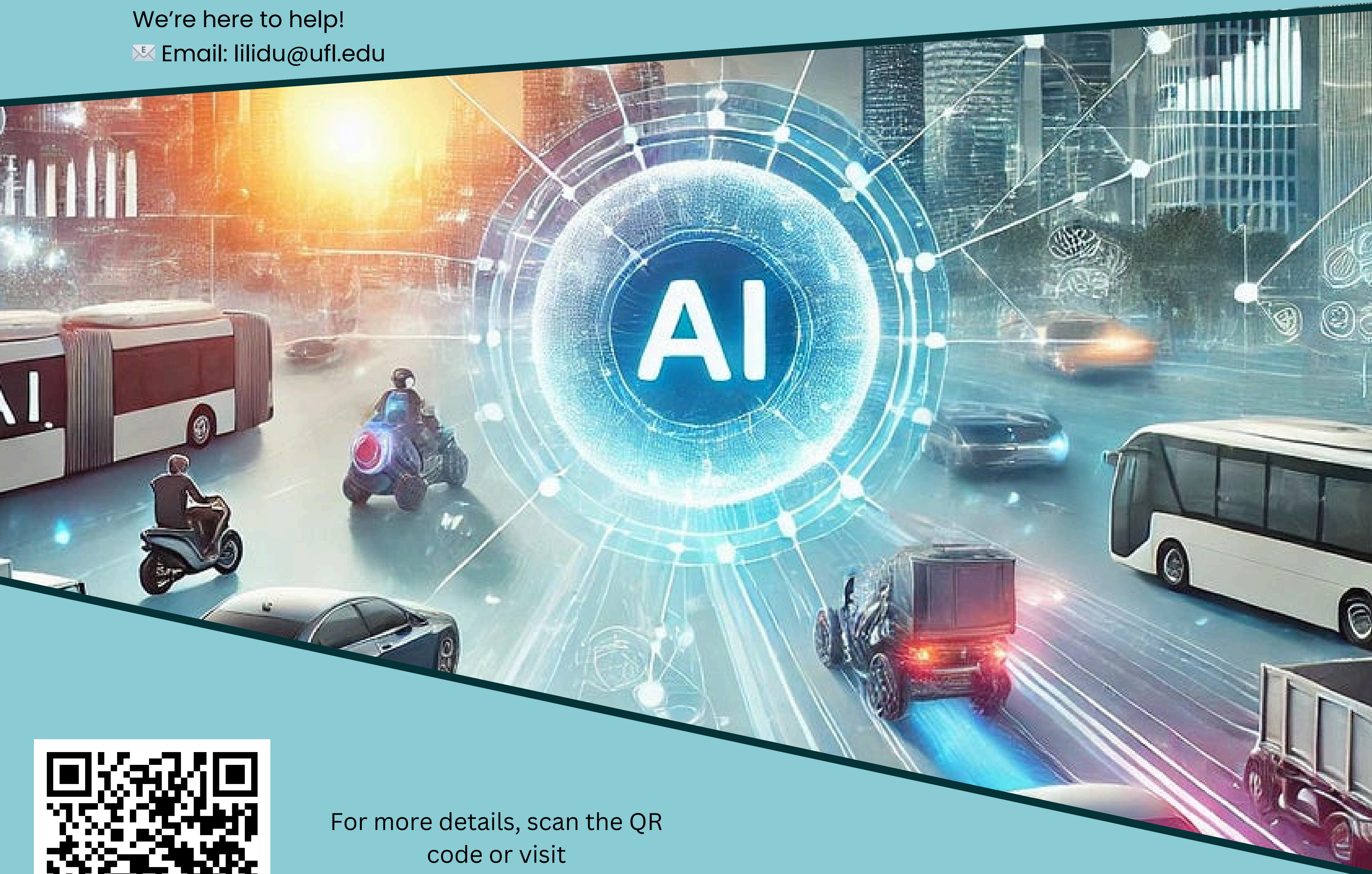- ACCESS TO VALUABLE RESOURCES AND RESEARCH MATERIALS

Have Questions?
We're here to help!
✉ Email: lilidu@ufl.edu

WHO SHOULD ATTEND?

- TRANSPORTATION ENGINEERS AND PLANNERS
- DATA SCIENTISTS AND AI RESEARCHERS
- PUBLIC TRANSPORTATION OFFICALS
- INDUSTRY PROFESSIONALS AND TECHNOLOGY INNOVATORS
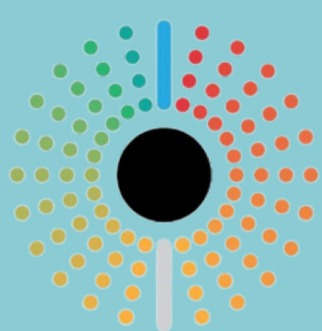- ACADEMIC AND STUDENTS IN RELATED FIELDS

For more details, scan the QR code or visit

https://shorturl.at/9CamW

Sponsors and Host Organizations:

leidos   BLUEHALO   T&DI ASCE   CMMM Center for Multi-Modal Mobility in Urban, Rural and Tribal Areas   CR2C2

MARCH 13 - 14, 2025

CLARK HALL, UNIVERSITY OF MARYLAND, COLLEGE

PIONEERING TRANSPORTATION INNOVATION WITH GENERATIVE AI

ASCE T&DI Artificial Intelligence in Transportation Committee

WORKSHOP AGENDA

Time Slots	Phase I Workshop Event	Speaker
Day 1 (March 13, 2025)		
8:45 AM – 9:00 AM	Welcome & Introduction	Lili Du: Chair of AI in Transportation Committee | T&DI ASCE Nii Attoh-Okine: Professor, University of Maryland
9:00 AM – 10:00 AM	Panel Discussion: Transportation Needs and Emerging Practices **Moderator:** Cinzia Cirillo, University of Maryland	Srini Peeta, Henry Liu, Kaan Ozbay, Bob Sheehan, Ankur Tyagi
10:00 AM – 10:10 AM	Break	Exhibit Session
10:10 AM – 11:45 AM	**Session 1: Revolutionizing Traffic Operations & Management with Generative AI** **Moderator:** Xianfeng Yang, University of Maryland	Srinivas Peeta: Frederick R. Dickerson Chair Professor, Georgia Institute of Technology Nii Attoh-Okine: Professor, University of Maryland Kaan Ozbay, Professor, New York University Hua Wei: Assistant Professor, Arizona State University
11:45 – 1:00 PM	Break	Exhibit Session
1:00 PM – 2:35 PM	**Session 2: Enhancing Urban and Rural Traffic Safety through Generative AI Innovations** **Moderator:** Jidong Yang, University of Georgia	Henry Liu: Bruce D. Greenshields Collegiate Professor, University of Michigan Chandra R. Bhat: Joe J. King Endowed Chair Professor, The University of Texas at Austin Yinhai Wang: Thomas and Marilyn Nielsen Endowed Professor, University of Washington Yaw Adu-Gyamfi: Associate Professor, University of Missouri
2:35 PM – 2:45 PM	Break	Exhibit Session
2:45 PM – 4:20 PM	**Session 3: Generative AI in Action: Insights from Federal and State Agencies** **Moderator:** Zhitong Huang, Leidos	Caitlyn M. Mabry: Data and Information Branch Manager, NCDOT Bob Sheehan, Program Manager, Multimodal ITS JOP, DOT Xiaoliang (George) Zhao, BlueHalo (Delaware DOT) *Wei Peng, George Washington University*
4:20 PM – 5:20 PM	Networking and Group Discussions on Ai research gaps and training needs	ASCE T&DI Artificial Intelligence in Transportation Committee, Leidos
5:20 PM – 5:40 PM	Day 1 Recap and Closing Notes	Lili Du, Chair of AI in Transportation Committee | T&DI ASCE

Time Slots	Phase II Workshop Event	Speaker
Day 2 (March 14, 2025)		
8:45 AM – 9:00 AM	Welcome & Introduction	Ali Karimoddini, Professor, North Carolina A&T State University Cinzia Cirillo, Professor, University of Maryland
9:00 AM – 10:00 AM	Panel Discussion: Unlocking the Potential of Generative AI **Moderator:** Ali Karimoddini, North Carolina A&T State University	Yinhai Wang, Chandra R. Bhat, Xiaoliang (George) Zhao, KT Han
10:00 AM – 10:10 AM	Break	Exhibit Session
10:10 AM – 11:45 AM	**Session 1: Revolutionizing Traffic Operations & Management with Generative AI** **Moderator:** Arash Hosseini, Terracon	Mo Babakmehr, AI-ML Lead, Ford Rouh Jafari, Senior Researcher, Perception, Planning, and Decision Systems, GM Global R&D Ahmadreza Moradipari and KT Han, Senior AI Lead, Toyota
11:45 AM – 1:00 PM	Break	Exhibit Session
1:00 PM – 2:35 PM	**Session 2: From Concept to Reality: Generative AI in the Transportation Industry** **Moderator:** Zhitong Huang, Leidos	Bruce Bernhardt, Senior Architecture Manager, HERE Abhijit Sarkar, Team Leader, Virginia Tech Transportation Institute Yangwen Liu: Data Scientist, Meta Ankur Tyagi, Senior Data Scientist, Leidos
2:35 PM – 3:35 PM	Networking and Group Discussions	ASCE T&DI Artificial Intelligence in Transportation Committee, Leidos
3:35 PM – 4:00 PM	Day 2 Recap and Final Remarks	Lili Du, Chair of AI in Transportation Committee | T&DI ASCE

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