AAMIR HASAN

PUBLICATIONS

Conference Articles

· **A. Hasan**, N. Chakraborty, H. Chen, J.-H. Cho, C. Wu, and K. Driggs-Campbell. PeRP: Personalized residual policies for congestion mitigation through co-operative advisory systems. In *IEEE International Conference on Intelligent Transportation Systems (ITSC)*, 2023

· N. Chakraborty, **A. Hasan***, S. Liu*, T. Ji*, W. Liang, D. L. McPherson, and K. Driggs-Campbell. Structural attention-based recurrent variational autoencoder for highway vehicle anomaly detection. In *Proceedings of the 22nd International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 2023

· **A. Hasan**, P. Sriram, and K. Driggs-Campbell. Meta-path analysis on spatio-temporal graphs for pedestrian trajectory prediction. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2022

· M. Bayles, T. Kadylak, S. Liu, **A. Hasan**, W. Liang, K. Hong, K. Driggs-Campbell, and W. Rogers. An interdisciplinary approach: Potential for robotic support to address wayfinding barriers among persons with visual impairments. In *Proceedings of the Human Factors and Ergonomics Society's International Annual Meeting (HFES)*, 2022

· Y. Shen, N. Wijayaratne, P. Sriram, **A. Hasan**, P. Du, and K. Driggs-Campbell. Cocatt: A cognitive-conditioned driver attention dataset. In *Proceedings of the IEEE International Conference on Intelligent Transportation Systems (ITSC)*, 2022

Journal Articles

· S. Liu, **A. Hasan**, K. Hong, R. Wang, P. Chang, Z. Mizarchi, J. Lin, D. L. McPherson, W. Rogers, and K. Driggs-Campbell. DRAGON: A dialogue-based robot for assistive navigation with visual language grounding. In *IEEE Robotics and Automation Letters (RA-L)*, February 2024

· Z. Huang, **A. Hasan**, K. Shin, R. Li, and K. Driggs-Campbell. Long-term pedestrian trajectory prediction using mutable intention filter and warp lstm. *IEEE Robotics and Automation Letters*, 6(2):542–549, April 2021

· Praveenkumar B. A., Srinivas A., **A. Hasan**, Anush S. K., Amogh M., Anirudh A., Devivaraprasad M., Rajashekar M., and Suresh K. A cloud-based technology solution for geo-spatial mapping of diseases among children for strategic healthcare planning in rural india. *ASCI Journal of Management*, 46:77 – 88, 2017

In Prep and Under Review

· J. Pohovey, **A. Hasan**, M. Lusardi, S. Liu, S. A. Olatunji, W. Rogers, and K. Driggs-Campbell. A survey on robotic solutions for wayfinding for people with visual impairments. In *Prep for ACM Transactions on Human-Robot Interaction*, March 2024

· **A. Hasan**, N. Chakraborty, and K. Driggs-Campbell. PAd-C-U: Personalized adaptive communication unit for drviers and their adas. In *Prep for Transactions on Intelligent Transportation Systems*, 2024

· **A. Hasan**, N. Chakraborty, H. Chen, J.-H. Cho, C. Wu, and K. Driggs-Campbell. Co-operative advisory policies for congestion mitigation. In *Prep for ACM Journal on Autonomous Transportation Systems*, 2024

· **A. Hasan**, D. L. McPherson, M. Miles, and K. Driggs-Campbell. Beyond the dashboard: Investigating driver preferences under distraction for communication with ADAS. In *Under Review for Transactions on Intelligent Transportation Systems*, 2024

Workshop Submissions

- **A. Hasan**, N. Chakraborty, C. Wu, and K. Driggs-Campbell. Towards co-operative congestion mitigation. In *Proceedings of the 'Shared Autonomy in Physical Human-Robot Interaction: Adaptability and Trust Workshop' at the IEEE International Conference on Robotics and Automation (ICRA)*, 2022
- **A. Hasan***, S. Liu*, K. Hong, C. Yao, J. Lin, W. Liang, M. Bayles, W. Rogers, and K. Driggs-Campbell. Designing a wayfinding robot for people with visual impairments. In *Proceedings of the 'Intelligent Control Methods and Machine Learning Algorithms for Human-Robot Interaction and Assistive Robotics' Workshop at the IEEE International Conference on Robotics and Automation (ICRA)*, 2022

Undergraduate Thesis

- **A. Hasan**. Meta-path analysis for community detection in heterogeneous graphs with ground truth labels. May 2019