1st International Workshop on Safety/Reliability/Trustworthiness of Intelligent Transportation Systems (SRToITS 2023)

Workshop Program

SRToITS2023 will be a full-day workshop with a mix of keynotes (we plan to host two keynotes), paper presentations and discussion sessions. We also plan to have a mixed format of face-to-face and online meeting.

Schedule:

9.00-9.40	**Keynote:** Automated driving safety - when is an automated vehicle ready for the road?	Martin Törngren, (30 min Presentation + 10 min Q&A)
9.40-10.00	Reliability Evaluation of Autonomous Transportation System Architecture Based on Markov Chain	Bingyv Shen, Guangyun Liu, Shaowu Cheng, Xiantong Li, Kui Li and Chen Liang, (15 min Presentation + 5 min Q&A)
10.00-10.30	Coffee Break	
10.30-10.50	Uncertainty Quantification for Semantic Segmentation Models via Evidential Reasoning	Rui Wang, Mengying Wang, Ci Liang and Zhouxian Jiang (15 min Presentation + 5 min Q&A)
10.50-11.10	Research on the Reliability of High-Speed Railway Dispatching and Commanding Personnel with Multi Physiological Signals	Liuxing Hu and Wei Zheng, (15 min Presentation + 5 min Q&A)
11.10-11.30	Research on Brain Load prediction based on machine learning for High-speed Railway dispatching	Dandan Bi, Xiaorong Meng and Wei Zheng, (15 min Presentation + 5 min Q&A)
11.30-13.00	Lunch Break	
13.00-13.40	**Keynote:** Using Monte Carlo and stochastic models to understand rare accident mechanisms and improve safety	Olivier Cazier, (30 min Presentation + 10 min Q&A)
13.40-14.10	HIT Transportation Research Introduction	Ci Liang

14.10-14.30	Towards an Effective Generation of Functional Scenarios for AVs to Guide Sampling	Hugues Blache, Pierre-Antoine Laharotte and El Faouzi Nour-Eddin, (15 min Presentation + 5 min Q&A)
14.30-14.50	Rear-end Collision Risk Analysis for Autonomous Driving	Ci Liang, Mohamed Ghazel, Yusheng Ci, Nour-Eddin El Faouzi, Rui Wang and Wei Zheng, (15 min Presentation + 5 min Q&A)
14.50-15.30	Coffee Break	
15.30-15.50	Improving road traffic safety and performance – barriers and directions towards cooperative automated vehicles	Gianfilippo Fornaro and Martin Törngren (15 min Presentation + 5 min Q&A)
15.50-16.10	Paired Safety Rule Structure for Human-machine Cooperation with Feature Update and Evolution	Satoshi Otsuka, Natsumi Watanabe, Takehito Ogata, Donato Di Paola, Daniel Hillen, Joshua Frey, Nishanth Laxman and Jan Reich, (15 min Presentation + 5 min Q&A)
16.10-16.30	Summary	