

CHING-YAO CHAN'S RECENT PUBLICATIONS, 2015-2021

- Fei Ye, et al., "Motion Planning and Control of Autonomous Vehicles," *IEEE Intelligent Vehicles*, July 2021.
- Fei Ye, et al., "Meta Reinforcement Learning-Based Lane Change Strategy for Autonomous Vehicles," *IEEE Intelligent Vehicles*, July 2021.
- Y. Lee, P. Wang, C-Y Chan, "RESTEP into the Future: Relational Spatio-Temporal Learning for Multi-Person Action Forecasting," *IEEE Transactions on Multimedia*, Print ISSN: 1520-9210 Online ISSN: 1941-0077, June 2021.
- B. Yang et al, "A Novel Graph-based Trajectory Predictor with Pseudo Oracle," *IEEE Transactions on Neural Networks and Learning Systems*," Print ISSN: 2162-237X, Online ISSN: 2162-2388, Digital Object Identifier: 10.1109/TNNLS.2021.3084143, June 2021.
- I-His Kao, et al, "A Posture Features Based Pedestrian Trajectory Prediction with LSTM," *IEEE-International Conference on Consumers Electronics*, June 2021.
- P. Wang et al, "Decision Making for Autonomous Driving via Augmented Adversarial Inverse Reinforcement Learning", *IEEE International Conference on Robotics and Automation*, to be presented, May 2021.
- P. Wang, H. Li, C-Y Chan, "Learning Adaptable Policy via Meta-Adversarial Inverse Reinforcement Learning for Decision-making Tasks", *IEEE International Conference on Robotics and Automation*, to be presented, May 2021.
- B. Yang et al, " Crossing or not? Context-based recognition of pedestrian crossing intention in the urban environment", T-ITS-19-03-0334, *IEEE Transactions on Intelligent Transportation Systems*, Print ISSN: 1524-9050, Online ISSN: 1558-0016, February 2021.
- Sanaz Motamedi, Pei Wang, Ching-Yao Chan, "Exploring Public Perception of Level-2 Automation and Full Automation: Interview Based Study", Paper 21-01824, *Transportation Research Board Meeting*, January 2021.
- X. Zhou, T. Zhang, P. Wang, C-Y Chan, "Visualization of Driving Scenes for Realistic Simulator Experimentation - An Efficient Framework", Paper 21-03634, *Transportation Research Board Meeting*, January 2021.
- P. Wang, et al, "Pedestrian Interaction with Automated Vehicles at Uncontrolled Intersections," *Transportation Research Part F: Psychology and Behaviour*, Dec. 2020.
- L. Bai, et al, "Capacity Estimation of Midblock Bike Lanes with Mixed Two-Wheeled Traffic," *Transportation A: Transport Science*, Dec. 2020.

- Yanli Ma, Zhiliang Lv, Peng Zhang, Ching-Yao Chan, "Impact of Lane Changing on Adjacent Vehicles considering Multi-Vehicle Interaction in Mixed Traffic Flow: A Velocity Estimating Model," *Physics A: Statistical Mechanics and Its Applications*, November 2020.
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- J. M. Salt Ducaju, et al., "Application Specific System Identification for Model-Based Control in Self-Driving Cars," *IEEE Intelligent Vehicles*, October 2020.
- Wenshuo Wang, et al., "Learning Representations for Multi-Vehicle Spatio-temporal Interactions with Semi-Stochastic Potential Fields," *IEEE Intelligent Vehicles*, October 2020.
- Arian Ranjbar, et al., "Scene Novelty Prediction from Unsupervised Discriminative Feature Learning," *IEEE Intelligent Transportation Systems Conference*, September 2020.
- I-Ming Chen, C-Y Chan, "Deep Reinforcement Learning Based Path Tracking Controller for Autonomous Vehicle" accepted for publication in *Proc. IMechE, Part D: Journal of Automobile Engineering*, August 2020.
- Yanli Ma, et al., "Drivers' Visual Attention Characteristics under Different Cognitive Workload: An On-road Driving Behavior study," *International Journal of Environmental Research and Public Health*, July 2020.
- Yanli Ma, et al., "Support vector machines for the identification of real-time driving distraction using in-vehicle information systems," *Journal of Transportation Safety and Security*, DOI: 10.1080/19439962.2020.1774019, June 2020.
- Yi He, et al., "Visualization Analysis of Intelligent Vehicles Research Field Based on Mapping Knowledge Domain," *IEEE Transactions on Intelligent Transportation Systems*, Print ISSN: 1524-9050, Online ISSN: 1558-0016, early access on *IEEE Xplore*, May 2020.
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- Huanjie Wang, Shihua Yuan, Mengyu Guo, Ching-Yao Chan, Xueyuan Li, Wei Lan, "Tactical driving decisions of unmanned ground vehicles in complex highway environments: A deep reinforcement learning approach," *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, February 2020.
- Yanli Ma, Biqing Yin, Xiancai Jiang, Jankun Du, Ching-Yao Chan "Psychological and Environmental Factors Affecting Driver's Frequent Lane-changing Driving Behaviors: A National Sample of Drivers in China," *IET Intelligent Transport Systems*, January 2020.
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- Long Xin, Shengbo Eben Li*, Pin Wang, Yulin Wang, Bingbing Nie, Ching-Yao Chan, Bo Cheng, "Accelerated Inverse Reinforcement Learning with Randomly Pre-sampled Policies for Autonomous Driving Reward Design," *IEEE Intelligent Transportation System Conference*, October 2019.
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CHING-YAO CHAN'S PREVIOUS PUBLICATIONS, UP TILL 2015

Book

- C-Y. Chan, "Fundamental of Crash Sensing for Automotive Air Bag Systems," Society of Automotive and Aerospace Engineers (SAE), February 2000, ISBN 0-7680-0499-3.

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- F. Bu, C-Y Chan, "Adaptive and Cooperative Cruise Control," *Handbook of Intelligent Vehicles*, Feb. 2012, **ISBN-13**: 978-0857290847.
- C-Y. Chan, "Occupant Restraint Systems," McGraw-Hill 2006 Yearbook of Science and Technology, December 2005, ISBN: 0-0714-6205-8.

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