Resume of Xianglong Wang

Basic Information

School :	School of Computer Science
Gender：	Male
Date of Birth：	19880618
Title：	Lecture
Education：	Ph.D of Traffic and Transportation Engineering
Tutor：	Master degree
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Interest of research:	Intelligent Vehicle Localization, Computer Vision, Deep learning

Academic Background

From September 2008 to July 2012, Wuhan Technology and Business University, Bachelor's degree in Electronic Information Engineering;
From September 2013 to July 2015, Wuhan University of Technology, Master's degree of Traffic and Transportation Engineering;
From September 2015 to July 2021, Wuhan University of Technology, Master's degree of Traffic and Transportation Engineering.

Representative Projects

1. Wuhan University of Technology Independent Innovation Research Fund: High-Precision Localization of Intelligent Vehicles Based on Semantic Representation of Road Scenes, Project leader.
2. Research on High-Precision 3D Localization of Indoor Scenes Based on Image and Laser Data, Natural Science Foundation of Hubei Province, Main Participant.
3. Research on Vehicle-Mounted High-Precision 3D Imaging System for Pavement, Wuhan Youth Science and Technology Morning Light Program, Main Participant.
4. 4. High-Precision Localization of Intelligent Vehicles Based on Semantic Representation of Road Scenes, Central Universities Innovation Team Research Project, Main Participant.

Representative Articles

1. **Xianglong Wang**, Xinyuan Zhu, Zhongzhen Yan, Zhiwei Ye, Jiangyi Du, Feng Guo, Zhigang Xu, Chun Liu & Cailu Mao. Image-only place recognition based on regional aggregating ConvNet features for underground parking lots[J]. The visual computer, 2023.
2. **Wang X**, Hu Z, Tao Q, et al. Bayesian place recognition based on bag of objects for intelligent vehicle localisation[J]. IET Intelligent Transport Systems, 2019, 13(11): 1736-1744.
3. **Wang X**, Zhaozheng H, Li N, Qin L (2020) Pavement crack analysis by referring to historical crack data based on multi-scale localization. PLoS ONE 15(8): e0235171. 2020
4. **Wang X**, Pavement Crack Analysis by Referring to Historic Crack Data Based on Multi-Scale

Localization 98 Transportation Research Board, 2019.

5. **Wang X**, Zhaozheng Hu, et al. “High Accuracy Vehicle Localization by Referring to Pavement Fingerprint”, Journal of Transportation Systems Engineering and Information Technology, 2018.
6. **X. Wang**, Z. Hu, "Grid-based pavement crack analysis using deep learning," 2017 4th International Conference on Transportation Information and Safety (ICTIS), Banff, AB, Canada, 2017, pp. 917-924, doi: 10.1109/ICTIS.2017.8047878.