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Current Position

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Publication (* represents corresponding author)

- Shang, Tianyi; **Li, Zhenyu***. Hierarchical Graph Alignment for Cross-Modal 3D Scene Grounding, *NeurIPS 2026* (CCF-A)
- Shang, Tianyi; **Li, Zhenyu***. OLA-Place: Cross-Modal Place Recognition without Global Descriptors, *NeurIPS 2026* (CCF-A)
- **Li, Zhenyu***; Shang, Tianyi. Hybrid State Space Modeling for Sequence-based Robot Localization Under Challenging Environments. *IEEE Transactions on Automation Science and Engineering*, 2026, 23, pp. 13220-13232. (IF=7.9)
- **Li, Zhenyu***; Shang, Tianyi. A2GC: Asymmetric Aggregation with Geometric Constraints for Locally Aggregated Descriptors. *CVPR 2026* (CCF-A)
- Shang, Tianyi; **Li, Zhenyu***, Xu, Pengjie; Deng, Zhaojun. Vehicle-SceneInteraction: A Text-Driven 3-D Lidar Place Recognition Method for Autonomous Driving. *IEEE Transactions on Intelligent Transportation Systems*, 2026, 27(8), pp. 9563-9575. (IF=9.1)
- **Li, Zhenyu***; Shang, Tianyi; Qiao, Jinwei; Liu, Pengbo; Deng, Zhaojun*. Seeing Through the Rain: Multistage Attention with Depth-Guided Restoration for Robust Localization. *IEEE Transactions on Industrial Informatics*, 2026, 22(7), pp. 5975- 5986. (IF=9.7)
- **Li, Zhenyu***, Xu, Pengjie; Dong, Zhenbiao; Zhang, Ruirui; Deng, Zhaojun. Feature-Level Knowledge Distillation for Place Recognition Based on Soft-Hard Labels Teaching Paradigm. *IEEE Transactions on Intelligent Transportation Systems*, 2025, 26(2), pp. 2091-2101. (IF=9.1)
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- Shang, Tianyi; **Li, Zhenyu***; Shuaishuai Lu; Pengjie Xu. FourierPlace: A Vision-Language Localization Framework Based on Frequency Domain Representations, *IEEE Robotics and Automation Letters*, 2026, 11(1), pp. 642-649. (IF=5.2)

- **Li, Zhenyu***; Xu, Pengjie. Quadruplet-Attention Transformer for Scale-Invariant Robot Place Recognition, [Expert Systems with Applications](#), 2025, 304, pp. 1-13. (IF=9.4)
- **Li, Zhenyu***; Xu, Pengjie. CSPFormer: A Cross-Spatial Pyramid Transformer for Visual Place Recognition, [Neurocomputing](#), 2024, 580, pp. 1-12. (IF=6.7)
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- **Li, Zhenyu*** and Xu, Pengjie. Pyramid transformer-based triplet hashing for robust visual place recognition. [Computer Vision and Image Understanding](#), 2024, 249, p.104167. (CCF-B)