Zi-Yan Liu

Phone: +886 977 298 200, Email:ziyan.en09@nycu.edu.tw

No. 1001, Daxue Rd., East District, Hsinchu City, 300
Gradute Degree Program of Robotics, EE622
National Yang Ming Chiao Tung Unicersity, Taiwan

Education
M.S. in Gradute Degree Program of Robotics, National Yang Ming Chiao Tung Unicersity
B.S. in Interdisciplinary Program of Engineering(IPE), National Tsing Hua University

Research Interests
Robotics, Mapping and Path Navigation, Crowd Navigation, Field and Service Robots, Assistive Technology, Automatic Control Systems, Computer Vision

Publication
JOURNAL
- C.-L. Lu, **Z.-Y. Liu**,J.-T. Huang,C.-I Huang, B.-H. Wang, Y. Chen, N.-H. Wu, H.-C. Wang, L. Giarré, P.-Y. Kuo.
  Assistive Navigation using DeepReinforcement Learning Guiding Robot with UWB/Voice Beacons and Semantic Feedbacksfor Blind and Visually Impaired People
  (Frontier in Robotics and AI. 2021)

CONFERENCE
- **Sample Efficient Reinforcement Learning with Curriculum Learning for Environment Generalization and Multi-Robot Transfer of Goal Navigation (2021/08 ~)**
- C.-L Lu*, J.-T. Huang*, C.-I Huang, **Z.-Y. Liu**, C.-C. Hsu, Y.-Y. Huang, S.-C. Huang, P.-K. Chang, Z. L. Ewe, P.-J. Huang, P.-L. Li, B.-H. Wang, L.-S. Yim, S.-W. Huang, M.-S Bai, H.-C. Wang, (*Equal Contribution)
  A Heterogeneous Unmanned Ground Vehicle and Blimp Robot Team for Search and Rescue using Data-driven Autonomy and Communication-aware Navigation
  (Field Robotics - Special Issue: Advancements and lessons learned during Phase I & II of the DARPA Subterranean Challenge. 2021)