
COMP0037 ASSIGNMENT 3

Group: Group L

Members: Yun Fang, Yusi Zhou

April 19, 2020

1 Decision Re-Plan Policy

2 Implement System in ROS

References

- [1] Anirudh Topiwala; Pranav Inani; Abhishek Kathpal (2018) Frontier Based Exploration for Autonomous Robot <<https://arxiv.org/abs/1806.03581>>.
- [2] Brian Yamauchi (1997) A Frontier-Based Approach for Autonomous Exploration <<https://www.semanticscholar.org/paper/A-frontier-based-approach-for-autonomous-Yamauchi/a1875055e9c526cbdc7abb161959d76d14b58266>>.
- [3] Callum Rhodes; Cunjia Liu; Wen-Hua Chen (2019) An Information Theoretic Approach to Path Planning for Frontier Exploration <https://www.researchgate.net/publication/331929185_An_Information_Theoretic_Approach_to_Path_Planning_for_Frontier_Explor>.
- [4] Steven M. LaValle (2006) Planning Algorithm <<http://planning.cs.uiuc.edu>>.
- [5] Matan Keidar; Gal A. Kaminka Efficient Frontier Detection for Robot Exploration Volume: 33 issue: 2 page(s):215-236 First published online: October 22, 2013 Issue published: February 1, 2014
- [6] Robert M. Gray (2013) Entropy and Information Theory <<https://ee.stanford.edu/~gray/it.pdf>>.