

Research on SLAM of Corridor Environment Based on Multi-sensor

Fei Wang , Haiyan Shao Member, IEEE, Qingshuai Zhao

School of Mechanical Engineering, University of Jinan, China

Zhiquan Feng

School of Information Science and Engineering, University of Jinan, China

- Firstly, a multi-sensor environment awareness platform was built.
- Secondly, the data of each sensor was collected and processed and fusion was realized based on the EKF algorithm of weighted observation multi-sensor.
- Finally, the cartographer algorithm was optimized at the back end and the map construction of corridor environment was realized.

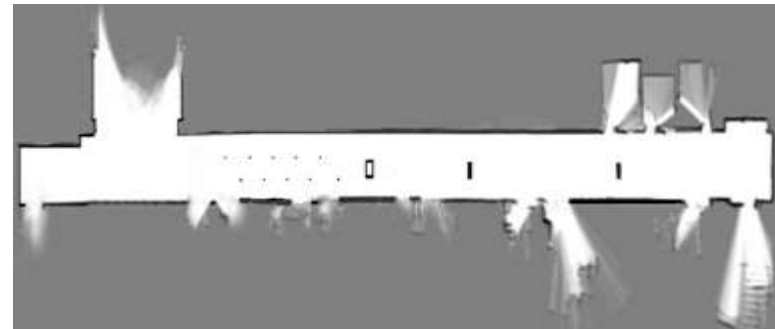


Fig.16(b) Optimized cartographer algorithm corridor environment map