

Journal Club

No.	Content	Lecturer	Date	Remark
1	<i>The analysis of the LOAM's inputs</i>	Baihan Luo	20/04/2017	Understanding of SLAM and GPS
2	<i>Lidar Odometry And Mapping</i>	Taichen Liu	28/04/2017	
3	<i>Improving positioning accuracy of vehicular navigation system during GPS-ML Method</i>	Xudong Zhang	05/05/2017	
4	<i>The Normal Distributions Transform- A New Approach to Laser Scan Matching</i>	Dove	12/05/2017	
5	<i>Sensor Technology Topic</i>	Simon	26/05/2017	
6	<i>GPS To ENU-Local Coordinate Transform</i>	Jiale Yang	02/06/2017	
7	<i>A fast and robust local descriptor for 3D point cloud registration</i>	Xudong Zhang	09/06/2017	Point Cloud Registration
8	<i>Efficient, General Point Cloud Registration With Kernel Feature Maps</i>	Taichen Liu	16/06/2017	
9	<i>Automatic registration of large-scale urban scene point clouds based on semantic feature points</i>	Dove	07/07/2017	
10	<i>The performance comparison between Lidar and RGB-D</i>	Simon	14/07/2017	
11	<i>Real-time Compression of Point Cloud Streams</i>	Xudong Zhang	24/08/2017	Point Cloud Compression
12	<i>Point Cloud Attribute Compression using 3-D Intra Prediction and Shape-Adaptive Transforms</i>	Lu Yu	11/08/2017	
13	<i>Large-Scale 3D Point Cloud Compression Using Adaptive</i>	Yingshi Li	18/08/2017	
14	<i>O-POCO: Online POint cloud COmpression mapping for visual odometry and SLAM</i>	Dove	25/08/2017	
15	<i>Velodyne SLAM, 2011</i>	Simon	01/09/2017	Loop Closure Detection
16	<i>Improving Google's cartographer 3D mapping by continuous-time SLAM</i>	Xudong Zhang	08/09/2017	
17	<i>ORB-SLAM a Versatile and Accurate Monocular SLAM System</i>	Lu Yu	15/09/2017	
18	<i>Online Global Loop Closure Detection for Large-Scale Multi-Session</i>	Yingshi Li	22/09/2017	
19	<i>Appearance-Based Loop Detection from 3D laser Data Using the Normal Distributions Transform</i>	Xudong Zhang	29/09/2017	
20	<i>A Survey of ADAS Technologies for the Future Perspective of Sensor Fusion</i>	Simon	13/10/2017	Sensor Fusion
21	<i>A Spline-Based Trajectory Representation for Sensor Fusion and Rolling Shutter Cameras</i>	Lu Yu	20/10/2017	
22	<i>A GPS and laser-based localization for urban and non-urban outdoor environments</i>	Taichen Liu & WEN Weisong	27/10/2017	
23	<i>Robust Curb Detection with Fusion of 3D-Lidar and Camera Data</i>	Xudong Zhang	03/11/2017	
24	<i>Autonomous driving at Ulm University: A modular, robust, and sensor-independent fusion approach</i>	Yingshi Li	10/11/2017	
25	<i>multi-camera visual odometry for Visual SLAM with a Multi-Camera Rig</i>	Lu Yu	17/11/2017	Range Sensor
26	<i>Kinect Range Sensing Structured-Light versus Time-of-Flight Kinect</i>	Simon	24/11/2017	
27	<i>Robust Scale Estimation in Real-Time Monocular SFM for Autonomous Driving</i>	Taichen Liu	01/12/2017	