



Indoor and Outdoor Simultaneous Localization and Mapping

October 21.-22.2013 Otaniemi, Finland

Monday Oct 21.

Prof. Dr. Andreas Nüchter

Lecture hall TU6 TUAS Building

8:30 - 9:30 Session I, Introduction and basic Data Structures

9:30 - 10:00 Coffee break

10:00 - 11:00 Session II, Registration and SLAM

11:00 - 11:30 Break

11:30 - 12:30 Session III, Applications

12:30 - 13:30 Lunch break

13:30 - 15:00 Hands-on-Experiences

15:00 - 15:30 Coffee break

15:30 - 16:30 Hands-on-Experiences

16:30 - 17:00 Break

17:00 - 18:00 Hands-on-Experiences

Tuesday Oct 22.

Prof. Sergey Zheltov and Dr. Yuri Blokhinov

Lecture hall TU6 TUAS Building

9:00 - 9:30 Session I, State research institution of aviation systems and projects in area of computer vision and photogrammetry - Prof. Zheltov

9:30 - 10:00 Session II, Obstacle detection system: algorithms, instrumentation, sensor integration, and applications - Prof. Zheltov

10:00 - 10:30 Coffee break

10:30 - 11:30 Session III, Modern avionics functions and photogrammetric support of situational awareness, enhanced and synthetic vision systems, augmented reality etc. - Prof. Zheltov

11:30 - 12:30 Lunch break

12:30 - 12:50 Session IV, The Photogrammetric Technology of High-realistic 3D Modeling for Terrain and Buildings for aviation applications - Dr. Blokhinov

12:50 - 13:20 Session IV, The Real-Time Model Based Tracking Problem in Automatic Docking of Space Cargo Ship to the International Space Station - Dr. Blokhinov

13:20 - 13:50 Coffee break

13:50 - 16:00 Demonstrations/Hands-on-Experiences