

English session
Applied Problems of Navigation and Motion Control

March 15, 2016
Conference Hall
ADM building, 4th floor

1	11.00-11.40	Lecture <i>M. Raitoharju (Tampere University of Technology (TUT), Finland)</i> A Survey of Fingerprinting and Fingerprint-Positioning Methods
2	11.40-12.00	<i>C. Doer, Institute of Systems Optimization (ITE), Karlsruhe Institute of Technology (KIT), Germany</i> Development of a Laser-based Simultaneous Localization and Mapping Algorithm
3	12.00-12.20	<i>T. Wald, Institute of Systems Optimization (ITE), Karlsruhe Institute of Technology (KIT), Germany</i> Control Optimization of a Quadrotor with Tilttable Rotors
4	12.20-12.40	<i>A.S. Nosov, A.V. Motorin (ITMO University, Concern CSRI Elektropribor, JSC, St. Petersburg, Russia)</i> Comparative Analysis of the Gravity Estimation Algorithms
5	12.40-13.00	<i>V.V. Mazulina (ITMO University), G.M. Mishchenko (ITMO University), U.V. Litvinov (ITMO University)</i> The Navigation System of the Mobile Robot
	13.00-14.00	L u n c h
6	14.00-14.20	<i>Guo Minhuan (School of Mechanical Engineering, Nanjing University of Science and Technology, Nanjing, China)</i> Low Order Equal System Identification of Small Low-Cost Fixed-Wing Unmanned Aerial Vehicle
7	14.20-14.40	<i>Shen Jieliang, Wang Yu, Zhu Xinhua, Su Yan (School of Mechanical Engineering, Nanjing University of Science and Technology, Nanjing, China)</i> Strapdown Inertial Navigation System Integration with Aircraft Motion Model Based on Extended H_{∞} Filter
8	14.40-15.00	<i>A.A. Prutko, A.V. Sumarov (S.P. Korolyev Rocket and Space Public Corp. Energia, Korolev, Moscow region)</i> Using the Spectral Methods to Analyze Eigenfrequencies of the International Space Station and to Determine the Noise Amplitude of the Angular Rate Sensor
9	15.00-15.20	<i>A.Yu. Krasnov (ITMO University), Chen Yifan (ITMO University), Liu Huimin (ITMO University), S.A. Chepinskiy (ITMO University)</i> Control System of Trajectory Following Motion in a Moving Frame
10	15.20-15.40	<i>I.B. Furtat (Institute of Problems of Mechanical Engineering, Russian Academy of Sciences, ITMO University), J.V. Chugina (ITMO University)</i> Robust Adaptive Control Algorithm for Dynamic Networks