



## SFI Offshore Mechatronics Annual Conference May 9. – May 10. 2017

### UiA Campus Grimstad, Final Programme

#### DAY 1: May 9. 2017

09:15 – 10:00	Registration in the reception area, Campus Grimstad. Poster session.
10:00 -10:05	Welcome and introduction
10:05 – 10:30	Lasse Schumann: Bosch Rexroth R&D Roadmap – A good fit to the SFI OM key topics
10:30 – 10:50	WP1 Introduction by WP Leaders Torben Ole Andersen and Morten Kjeld Ebbesen
10:50 – 11:10	WP1.2 Sondre Nordås, UiA, «Using Digital Hydraulics in Secondary Control of Motor Drive»
11:10 – 11:30	WP1.4 Daniel Hagen, UiA, «Electrical and Electrohydraulic Linear Actuators»
11:30 – 12:30	Lunch + Poster Session
12:30 – 12:50	WP2 Introduction by WP Leader Olav Egeland
12:50 – 13:10	WP2.1 Geir Ole Tysse, NTNU, «Comp. vision/3D sensors for topside automation»
13:10 – 13:30	WP2.2 Torstein Myhre, NTNU, «High-Performance Control for Motion Compensation»
13:30 – 13:50	WP2.3 Andrej Cibicik, NTNU, “Nonlinear friction comp. in motion compensation systems”
13:50 – 14:10	Break + Poster Session
14:10 – 14:30	WP2.4 Alexander Meyer Sjøberg, NTNU, «Vision Systems for Offshore Crane Control »
14:30 – 14:50	WP2.5 Sondre Sanden Tørdal, UiA, «Real-Time Multiple DOF Motion Compensation»
14:50 – 15:10	WP2.6 Philipp Schubert, RWTH Aachen, “Real-Time Teleoperation and Model-Based Control”
15:10 – 15:30	Break + Poster Session
15:30 – 15:50	WP3 Introduction by WP Leader Geir Hovland
15:50 – 16:10	WP3.1 Joacim Dybedal, UiA, “Development of Offshore 3D Sensor Package”
16:10 – 16:30	WP3.2 A. Aalerud, P.S. Eppeland and E. Ujkani, UiA, “Autonomy Systems Foundation Development, Real-Time Human Motion Detection Using Multiple Kinect Sensors”
16:30 – 16:50	WP3.3 Aksel Sveier, NTNU, “Handling of Sensor Fusion, Point-Clouds and 3D Maps”
16:50 – 17:10	WP3.4 Thiago Gabriel Monteiro, NTNU Aalesund, “Situational Awareness/Human Factors”
17:30	Conference Dinner on Campus

#### DAY 2: May 10. 2017

09:00 – 09:20	WP4 Introduction by WP Leader Olav Egeland
09:20 – 09:40	WP4.3 Lars Ivar Hatledal, NTNU Aalesund, «Integrated simulation of multi-physical systems»
09:40 – 09:55	WP6 Introduction by WP Leader Baltasar Beferull-Lozano
09:55 – 10:20	WP6.1 & WP6.2 Luis Miguel López, UiA, “Distributed in-network intelligence” and “Self-organized cross-layer protocols”
10:20 – 10:45	Invited: Erik-Bek Pedersen, The Danish Hydrocarbon Research and Technology Centre, DTU
10:45 – 11:00	Break + Poster Session
11:00 – 11:20	WP5 Introduction by WP Leader Thomas Meyer
11:20 – 11:40	WP5.1 Martin Hemmer, UiA, “Tapered big bearings”
11:40 – 12:00	WP5.2 Rune Schlanbusch, Teknova, “Large diameter steel ropes”
12:00 – 13:00	Lunch + Poster Session
13:00 – 13:20	WP5.3 Shaun Falconer, UiA and Espen Oland, Teknova, “Fiber Ropes”
13:20 – 13:40	WP5.4 Lothar Wöll, RWTH Aachen, “Condition-based lifetime prediction”
13:40 – 14:00	WP5.5 Zbigniew Mikulski, UiA, “Modeling the fatigue damage mechanism in welded joints”
14:00 – 14:30	Break + Poster Session
14:30 – 16:00	Reference Group Meetings: WP1 D3-051, WP2+WP4 C4-043, WP3 C4-095, WP6 A3-076.
15:00 – 16:00	Lab demos: 1) Motion-Lab, 2) Human-Motion Detection, 3) Human-Like Gripper Arm
16:15	Common bus transport from Campus Grimstad to Kristiansand Kjevik Airport (KRS)