



Workshop programme for 7th/8th of April 2011

Sessions 1-6 take place at HTW Z107

Poster Sessions, exhibitions and lunch/coffee breaks take place at HTW PAB

Day	1 -	7 th	of A	pril	2011
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08:00 - 08:45

Registration

08:45 - 09:00

Welcome words from the organizers

SESSION 1 - Motion Tracking and Inertial Localization

09:00 - 09:20

S1MTIL1: A reduced DCM Based Attitude Estimation Using Low-cost IMU and Magnetometer !

Ezzaldeen Edwan, University of Siegen Jieying Zhang, University of Siegen Junchuan Zhou, University of Siegen

Otmar Loffeld, University of Siegen

09:20 - 09:40

S1MTIL2: On the Fusion of Inertial Data for Signal Strength Localization

Johannes Schmid, Karlsruhe Institute of Technology Tobias Gädeke, Karlsruhe Institute of Technology Wilhelm Stork, Karlsruhe Institute of Technology

K.D. Müller-Glaser, Karlsruhe Institute of Technology

09:40 - 10:00

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Models Filtering

Furrukh Sana, Universitat Politecnica de Catalunya

10:00 - 10:20

S1MTIL4: Study on UWB/INS Integration Techniques

Lukasz Zwirello, Karlsruhe Institute of Technology Christian Ascher, Karlsruhe Institute of Technology Gert F.Trommer, Karlsruhe Institute of Technology

Thomas Zwick, Karlsruhe Institute of Technology

10:20 - 10:40

S1MTIL5: UAV real-time location using a Wireless Sensor Network

/ Model flogrency

José-Luis Rullán-Lara, Université de Technologie de Compiègne

Sergio Salazar, LAFMIA UMI CNRS

Rogelio Lozano, Université de Technologie de Compiègne

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Pilat Stevert, Position wive

10:45 - 11:15

Coffee break

SESSION 2 - Ranging Techniques

11:15 - 11:35

S2RT1: A Time Difference of Arrival System Architecture for GSM Mobile Phone

Localization in Search and Rescue Scenarios

TDOA Sysh

Alexander Goetz, University Erlangen-Nuremberg Stefan Zorn, University Erlangen-Nuremberg Richard Rose, University Erlangen-Nuremberg Georg Fischer, University Erlangen-Nuremberg Robert Weigel, University Erlangen-Nuremberg

PS8: GNSS for Automotive A	

Andreas Kahmann, OECON Products & Services GmbH Stephan Ritter, OECON Products & Services GmbH Timo Nels, OECON Products & Services GmbH

SESSION 3 - Cooperative and Distributed Localization 1 to Net werken

13:50 - 14:10

S3CDL1: Bayesian Outlier Detection in Location-aware Wireless Networks

Yi Li, Chalmers University of Technology Wenn Antennen nicht
Dapeng Liu, Chalmers University of Technology funtification
Henk Wymeersch, Chalmers University of Technology

LDPC

14:10 - 14:30

S3CDL2: Multihop versus Message-Passing: a Complexity and Accuracy Comparison for Distributed Localization

Stefano Severi, University of Bologna Giuseppe Abreu, University of Oulu Giuseppe Destino, University of Oulu Davide Dardari, University of Bologna

14:30 - 14:50

S3CDL3: Second Order Cone Programming for Sensor Network Localization with Anchor Position Uncertainty

Ghasem Naddafzadeh Shirazi, University of British Columbia Michael Botros Shenouda, University of British Columbia Lutz Lampe, University of British Columbia

14:50 - 15:10

S3CDL4: A Network Traffic Reduction Method for Cooperative Positioning

Kallol Das, Chalmers University of Technology Henk Wymeersch, Chalmers University of Technology

15:15 - 15:30

Coffee break

15:30 - 16:05

Poster Session 2

PS9: Impact of Mobility on the Performance of Dynamic Cooperative Communications in SC-FDMA Systems

Youssef NASSER, American University of Beirut Joumana Farah, Holy-Spirit University of Kaslik Joseph Kirillos, Université Saint-Esprit de Kaslik Stéphanie Bassil, Université Saint-Esprit de Kaslik Maryline Helard, INSA Rennes

PS10: Influence of Oversampling on Joint Channel and Parameter Estimation for Combined Communication and Positioning

Kathrin Schmeink, University of Kiel Rebecca Block, University of Kiel Peter Adam Hoeher, University of Kiel

PS11: Mobile Sensors in Air Pollution Measurement

Dan Stefan Tudose, Politehnica University Bucharest Andrei Voinescu, Politehnica University Bucharest Traian Alexandru Patrascu, Politehnica University Bucharest Razvan Tataroiu, Politehnica University Bucharest Nicolae Tapus, Politehnica University Bucharest

Day 2 - 8th of April 2011

SESSION 5 - Radar and Ultrasonic Localization

09:00 - 09:20

S5RUL1: Channel Model-Based Sensing for Indoor Ultrasonic Location Systems

Yun Lu, Dresden University of Technology Adolf Finger, Dresden University of Technology

09:20 - 09:40

S5RUL2: FMCW System Aspects for Multipath Environments

Jens Wagner, Dresden University of Technology Niko Joram, Dresden University of Technology Axel Strobel, Dresden University of Technology Ralf Eickhoff, Dresden University of Technology Frank Ellinger, Dresden University of Technology

Reflexioner / Positioning error
Reflexioner / Borch Multipath
Wie gufist perechang
die Auflösung
V Hamming Window &

09:40 - 10:00

S5RUL3: Improving indoor position estimation by combining active TDOA Ultrasound and passive Thermal Infrared Localization

Daniel Hauschildt, TU Dortmund University Nicolaj Kirchhof, TU Dortmund University

10:00 - 10:20

S5RUL4: Underwater Localization with Time-Synchronization and Propagation Speed Uncertainties

Roee Diamant, University of British Columbia Lutz Lampe, University of British Columbia

10:25 - 10:55

Coffee break

SESSION 6 - Localization Algorithms and Standardization

10:55 - 11:15

S6LAS1: A Semidefinite Programming Approach to Hybrid Localization using RSSI and TOA

Mohamed Laaraiedh, University of Rennes 1, IETR Lab Stephane Avrillon, University of Rennes 1, IETR Lab Nicolas Amiot, University of Rennes 1, IETR Lab Bernard Uguen, University of Rennes 1, IETR Lab

11:15 - 11:35

S6LAS2: Active Monte Carlo Localization using RF Round-Trip Time-of-Flight Measurements

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Daniel Fross, Chemnitz University of Technology Andre Fross, Chemnitz University of Technology Ulrich Heinkel, Chemnitz University of Technology

11:35 - 11:55

S6LAS3: Standardization Activities for Radio based Ranging

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Michael Mahler, Bosch AG

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S6LAS4: RF-based Positioning and Localization Techniques in Wireless Sensor Networks using a C-MDS Approach

UWB

Richard Weber, Dresden University of Technology Robert Richter, Dresden University of Technology Oliver Michler Dresden University of Technology Sven Zeisberg, Dresden University of Applied Sciences

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