



# KTH-SJTU Joint Workshop on Distributed Intelligent System Analysis and Application

Aug. 28 - Aug. 30, 2016, KTH Royal Institute of Technology, Sweden



## PROGRAM

Aug. 28<sup>th</sup>

18.00 **Reception**

Aug. 29<sup>th</sup>

9.00-9.15 **Welcome Talk**

Arne Johansson, Vice president for Research, KTH

### SESSION 1

**Chair: Xiaoming Hu**

9.15-9.45 Weidong Chen, SJTU

Improving Autonomy and Safety of Intelligent Wheelchair

9.45-10.15 Dimos Dimarogonas, KTH

To be determined.

### COFFEE BREAK (30 min)

### SESSION 2

**Chair: Xiaofan Wang**

10.45-11.15 Boualem Djehiche, KTH

Optimal Control and Games for Markov Chains of Mean-field Type

11.15-11.45 Dewei Li, SJTU

The Predictive Control System for Temperature and Humidity of Enthalpy Difference Lab

11.45-12.15 Henrik Sandberg, KTH

From Control System Security Indices to Attack Identifiability

### LUNCH

12.20-13.20

### SESSION 3

**Chair: Henrik Sandberg**

**13.30-14.00** Ning Li, SJTU

Gap-Metric Based Switched Multiple Model Predictive Control

**14.00-14.30** Xiaoming Hu, KTH

Intrinsic Formations of Reduced Attitudes

**14.30-15.00** Yanyu Lu, SJTU

Pilots' Visual Scanning Behaviours During a Flight Task

### COFFEE BREAK (30 min)

### SESSION 4

**Chair: Ning Li**

**15.30-16.00** Anders Lindquist, KTH

To be determined.

**16.00-16.30** Xiaofan Wang, SJTU

Quantization Effects on Complex Networks

**16.30-17.00** Per Enqvist, KTH

To be determined.

### BANQUET

**18.30-20.30**

Aug. 30<sup>th</sup>

### SESSION 5

**Chair: Weidong Chen**

**9.00-9.30** Karl Henrik Johansson, KTH

To be determined.

**9.30-10.00** Yupu Yang, SJTU

Measurement of Weak Magnetic Field for Autonomic- navigation in Space

**10.00-10.30** Johan Karlsson, KTH

To be determined.

### COFFEE BREAK (30 min)

### SESSION 6

**Chair: Karl Henrik Johansson**

**11.00-11.30** Weidong Zhang, SJTU

Analytical Design and Quantitative Tuning for Linear and Nonlinear Systems

**11.30-12.00** Bo Wahlberg, KTH

On Convex Relaxation Methods in Control and System Identification

**12.00-12.30** Shanying Zhu, SJTU

Distributed Estimation in Bandwidth Constrained Sensor Networks: A Least Squares Approach

### LUNCH

**12.40-13.40**