

Tue. Jun 17, 08 (DAY 1)

9:00 – 9:20	Opening
9:20 – 10:20	Keynote
10:20 – 10:40	Coffee break
10:40 – 12:20	Session 1 Communication Protocols
	(Invited) Mike Hazas
	(Full) Multi-level Design and Optimization of Wireless Sensor Networks
	Providing Data Integrity in Intermittently Connected Wireless Sensor Networks
	Coping with Unreliable Channels: Efficient Link Estimation for Low-Power Wireless Sensor Networks
12:20 – 13:20	Lunch
13:20 – 14:40	Session 2 Applications
	(Industry) Production Management System in an Assembly Plant by Terrestrial Magnetism Sensors
	A new Highly-Synchronized Wireless Mesh Network Model in use by the Electric Company to switch to Automatic Meter Reading: I
	Messaging Methods in a Service-Oriented Architecture for Industrial Automation Systems
	Optical vortex and correlation image sensor for networked deformation sensing of infrastructures
14:40 – 15:00	Coffee break
15:00 – 16:40	Panel Discussion
16:40 – 17:00	Demo and Poster Setup
17:00 – 21:00	Demo and Poster Reception

Wed. Jun 18, 08 (DAY 2)

9:00 – 10:20	Session 3 Modeling and Data Management
	(Short) Mathematical modeling and Simulation of Micro flux gate Magnetic sensor and ITS FABRICATION using MEMS Technology
	Neural Fault Isolator for Wireless Sensor Networks
	Update Tolerant Execution of Continuous Queries on Sensor Data
	Active Tag Emulation for Pedestrian Localization Applications
	The Tag Duplication Problem in an Integrated WSN for RFID-Based Item-Level Inventory Monitoring
	Behavior Description Algorithm Based on Home Sensor Data using Nonlinear Transformations
	A Software Architecture for Accessing Data in Sensor Networks
	Location-Aware Event Services for Wireless Sensor Networks
10:20 – 10:40	Coffee break
10:40 – 12:20	Session 4 Sensor Hardware
	(Invited) Kazusuke Maenaka
	(Full) Evaluation of Antenna-Integrated 315MHz Transmitter for Smart Microsensors
	Wireless Less-Invasive Blood Pressure Sensing Microsystem for Small Laboratory Animal In Vivo Real-Time Monitoring
	Telemetry Platform for Deeply Implanted Biomedical Sensors
12:20 – 13:20	Lunch
13:20 – 14:20	Session 5 Sensor Hardware
	(Industry) The implementation of ultra low power IEEE802.15.4 module and its application for battery-less wireless sensors.
	Vibration-type Sensor Systems by Optical Excitation and Detection using Optical Fibers
	CMOS photo-transistor array detection system for visual light identification (ID)
14:20 – 18:00	Conference Tour
18:00 – 23:00	Banquet

Thu. Jun 19, 08 (DAY 3)

9:00 – 10:20	Session 6 Communication Protocols and Middleware
	(Short) A Route Planning Method for Multiple Mobile Sensor Nodes
	Aggregating Sensor Data from Overlapping Multi-Hop Network Neighborhoods: Push or Pull?
	Pluggable real world interfaces: Physically enabled code deployment for pervasive applications
	Toward Real-Time Extraction of Pedestrian Contexts with Stereo Camera
	Area-Based Sensor Data Disclosure Mechanism to Preserve Activity Information in Ubiquitous Sensor Environment
	SENSORD/Stat: Combining Sensor Middleware with a Statistical Computing Environment
	Multipath Energy-aware Routing Protocol in Wireless Sensor Networks
	Lightweight Fault Tolerant Time Synchronization in Wireless Sensor Networks
10:20 – 10:40	Coffee break
10:40 – 12:20	Session 7 Applications
	(Invited) Hartmut Hillmer
	(Full) EMG Sensor Integration Based on Two-Dimensional Communication
	Networked Sensing Systems for Detecting People Carrying

Three-Dimensional Shape Capture Sheet Using Distributed Six-Axis Sensors

12:20 – 13:20 Lunch

13:20 – 14:20 **Session 8**

(Industry)

Applications

Life Microscope: Continuous Daily-Activity Recording System with a Tiny Wireless Sensor

Research into Sensor Networks and Web APIs - Urban Navigation Systems Utilising Sensor Network Data -

Possibility of Sensor Network Applying for Railway Signal System

14:20 – 14:40 Coffee break

14:40 – 16:00 **Session 9**

(Full)

Modeling and Security

TinyPBC: Pairings for Authenticated Identity-Based Non-Interactive Key Distribution in Sensor Networks

Design and Analysis of Micro-Solar Systems for Wireless Sensor Networks

Position Sensing based on Electric Field Measurement on Two-Dimensional Signal Transmission Sheet

Quality of Location: Estimation, System Integration and Application

16:00 – 16:20 Coffee break

16:20 – 17:10 **Session 10**

(Short)

Applications

Distributed and Efficient Classifiers for Wireless Audio-Sensor Networks

Wireless Sensor Nodes Localization based on Multiple Range Data Fusion

Structural Health Monitoring System based on Strain Gauge Enabled Wireless Sensor Nodes

Time synchronized wireless sensor system for building vibration measurement

Vehicle Positioning Method with Car-to-Car Communications in Consideration of Communication Delay

17:10 – 17:30 Closing

Case Study