

Smart SysTech 2016

European Conference on Smart Objects, Systems and Technologies

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Fraunhofer Institute for Microelectronic Circuits and Systems, Duisburg, Germany

Program

Localization I

Localization of UHF RFID Transponders regarding Industry 4.0 Scenarios using DoA Estimation Techniques

Positioning with Angle-of-Arrival Estimation on Partially Coherent Arrays

Localization methods by using phase of arrival

IoT

Archaeological intelligent RFID artefacts

Ultra-lightweight Algorithm for Generating Pseudo-random Number Sequences in Passive UHF-RFID Tags

Concept for an Adaptive Low Power Wide Area (LPWA) Bat Communication Network

Smart Objects

RFID Based Pallet Management

The Potential of Household Specific Feature Selection for Analysing Smart Home Time-Series Data

Multipath Characteristics of Indoor-to-Outdoor Radio Channels in the 868-MHz Band

A Method to Integrate Virtual-Physical Construction Environment in Framework of CPS Approach

Localization II

Concept for an intelligent UHF RFID reader according to the Ideas of Industry 4.0

Energy Aware, Two-staged Localization Concept for Dynamic Indoor Environments

Graph-Oriented Generalization of Range Positioning: Identification of Critical Cases and Performance of Gauss-Newton Methods

RSSI-based Localisation Method using 3-Microwatt Wake-up Receivers with good Co-Channel Interferer Tolerance

RFID Technologies

A Comparison of Several Carrier Suppression Techniques

A Survey of UWB Technology Within RFID Systems and Wireless Sensor Networks

Comparison of Energy Harvesting via Modulation Schemes for Passive Sensor RFID

Antenna

Time and Frequency Synchronization Characteristics in Rapid Prototyping Environments

Approach for long-range frequency domain chipless RFID tags towards THz

Extended Discussion on Non-Identical Planar Resonant Coils for Frequency Splitting Elimination in Wireless Power Transfer Systems