



Smart Antenna System for Electronic Toll Collection with Vehicle Localization and Tracking using End Users' Smartphones with BLE

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Design of a Low-Cost Wireless Communication System for Driving Precision Agriculture Through RTK Integration

(Francesco P. Chietera, Pierluigi Rossi, Leonardo Assettati, Leonardo Vita, Davide Gattamelata, Daniele Puri, Danilo Monarca, Luca Catarinucci)

HerMeS: A New Approach to Enjoy Tangible and Intangible Point of Interests of Culture Heritage

(Alberto Bucciero, Alessandra Chirivì, Chiara Florise Amadei, Mohamed Ali Jaziri, Irene Muci, B Luigi Nuzzo, Andrea Pandurino)

H2IOSC Project: The Italian Federated Cluster for IoT-based Monitoring and Digital Twinning of Cultural Heritage

(Alberto Bucciero, Alessandra Chirivì, Riccardo Colella, Mohamed Emara, Matteo Greco, Daniela M Palamà, Andrea Pandurino, Francesco Taurino, Davide Zecca)

Towards Sensorized Glasses: a Smart Wearable System for Head Movement Monitoring

(Igor Bisio, Chiara Garibotto, Mehrnaz Hamedani, Fabio Lavagetto, Angelo Schenone, Andrea Sciarrone, Muhammad Shahid)

An Innovative Monitoring System based on UAV and Unmanned Surface Vessel

(Valeria Vergine, Fabrizio Benvenuto, Sergio De Giuseppe, Marco Spedicato, Alessandro Largo)

Development of an IoT-Based Real-Time Psychrometric Data Acquisition and Visualization System

(Milovan Medojevic, Dušan Simić, Milana Medojevic)

3D Printed Digital Materials for Antenna Applications

(Anil Bastola, Aakash Bansal, Chris Tuck, William Whittow)

A Millimeter-wave H-plane Printed-Horn Antenna with Multi-layered Substrate

(Hafiz Usman Tahseen, Luciano Mescia, Luca Catarinucci)

A miniaturized ECG system based on a versatile single chip sensor interface

(Andrea Ria, Simone Contardi, Massimo Piotto, Paolo Bruschi)

A Model for Performance Evaluation of Low-Frequency 3D-Printed Electronic filters

(Paolo Esposito, Gianluca Barile, Vincenzo Stornelli, Giuseppe Ferri)

A Platform-Tolerant RFID Tag Designed on an AMC Supporting Structure

(Giovanni Andrea Casula, Giorgio Montisci, Giacomo Muntoni, Paolo Maxia)

A Prototype of an RFID-Based Command Sleeve With Changeable Microcircuits

(Tiina Vuohijoki, Sari Merilampi, Tiina Ihalainen, Johanna Virkki)

Adaptive Beamsteering Architecture based on AoA Estimation with Phase Shift on LO-Path for 5G NR

(Antonello Florio, Giuseppe Coviello, Claudio Talarico, Gianfranco Avitabile)

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(Marco Salucci, Samantha Lusa, Lorenzo Poli, Alessandro Polo, Luca Tosi, Andrea Massa)

Autonomous probe for underwater karstic topology reconstruction

(Nicolas Troesch, Arnaud Vena, Séverin Pistre, Philippe Combette)

Backscatter-based wireless sensing system for multi-channel complex impedance measurements

(Arnaud Vena, Jean Podlecki, Brice Sorli)

Characterization of A Monopulse Antenna Made of Substrate-Integrated-Waveguide Structure

(Achmad Munir, Dwi Andi Nurmantris, Muhammad Farhan Maulana, Ebin Novendra)

Circuit Model of NFC-Powered Systems for Monitoring Cracks in Built Cultural Heritage

(Mohamed Emara, Riccardo Colella, Alberto Bucciero, Luca Catarinucci, Giuseppe Grassi)

Decision Support for Resilient Emergency Response through IoT-driven Environmental Monitoring

(Alessandro Polo, Paolo Rocca, Marco Salucci, Giorgio Gottardi, Andrea Massa)

Deriving Sea Surface Currents from Satellite Measurements

(Ljiljana Šerić, Ivana Barišin, Antonia Ivanda, Maja Braović, Damir Krstinic, Selena Knežić Buhovac, Hrvoje Mihanović)

Design and development of a fully wireless board enabling multiple electrochemical sensors operation and readout for salivary diagnostics applications

(Riccardo Goldoni, Filippo Goldoni, Andrea Ria, Gianluca M. Tartaglia, Lucanos Strambini)

Design of an RFID-Based Wireless Programmable Smart-Shield for Implantable Medical Devices

(Francesco Lestini, Alessio Marino, Gaetano Marrocco, Cecilia Occhiuzzi)

Digital Twin of Retail Stores with RFID Tags Localization

(Junwei Ma, Xiangyu Wang, Caleb Powell, Jian Zhang, Shiwen Mao, Senthilkumar Periaswamy, Justin Patton)

Enhancing Ku Band Antenna Performance Through Supershaped Design Elements

(Domenico Caggiano, Angela Ferraris, Claudio Maria Lamacchia, Gaetano Chimenti, Luciano Mescia)

Estimating Bathing Water Quality from Meteorological Measurements

(Jelena Culic Gambiroza, Ivana Nizetic Kosovic, Marin Ordulj, Slaven Jozić, Nikolina Baumgartner, Ana Vrdoljak Tomaš)

Experimental Evaluation of RFID-based Thermal Monitoring Sheet (R-TMS) for Superficial Hyperthermia Treatment

(Francesco Lestini, Alessandro Di Carlofelice, Piero Tognolatti, Gaetano Marrocco, Cecilia Occhiuzzi)

Integrating Environmental Monitoring and Structural Health: A IoT-based and Mobile-Oriented Decision Support System for Early Alerting

(Alessandro Polo, Paolo Rocca, Marco Salucci, Maria Rosaria Gallipoli, Angela Perrone, Vincenzo Serlenga, Andrea Massa)

Localization of Personnel in Industrial Environments Using Passive RFID Tags

(Massimo Scarsella, Mattia Ragnoli, Marianna Rotilio, Federica Cucchiella, Giuseppe Ferri, Vincenzo Stornelli)

Low-cost antenna integrated within flexible solar panels for IoT sensor nodes

(Marco Simone, Olga Basile, Alessandro Polo, Antonio Iacchetti, Roberto La Rosa, Santi Concetto Pavone, Gino Sorbello, Mohammad Abdul Hannan, Marco Salucci)

New project for a surface penetrating radar

(Alberto Bucciario, Riccardo Colella, Lara De Giorgi, Dora Francesca Barbolla, Giuseppe Cannazza, Chiara Torre, Giovanni Leucci)

Obstacle-avoidance through RFID Near-Field detectors for Robot-based Localization and Sensing Systems

(Glauco Cecchi, Andrea Motroni, Andrea Ria, Paolo Nepa)

Optically Transparent Ultra-High Frequency (UHF) RFID Tag Antennas

(Aakash Bansal, William Whittow)

RFID-Based Temperature Integrity Seal For "Cold Chain" Monitoring

(Giovanni Andrea Casula, Giuseppe Sforazzini, Piero Cosseddu, Giorgio Montisci, Giacomo Muntoni)

SENSIBUS: a Novel One Wire Protocol for Smart Sensors

(Michele Vitelli, Leonardo Balocchi, Mario Molinara, Stefania Bonafoni, Luca Roselli, Simone Contardi, Iacopo Nannipieri)

Towards Everyday Physiological Monitoring: A Sock Prototype for Electrodermal Activity Measurements

(S M Musfequr Rahman, Henna Mattila, Lotta Eerola, Annika Maenpaa, Terhi Helminen, Pasi Raunonen, Anneli Kylliainen, Johanna Virkki)

Utilization of PIN Diode for Polarization Reconfigurability of 3D Printed RFID Antenna

(Elmi Cahyaningsih, Trasma Yunita, Sulistyaningsih Sulistyaningsih, Achmad Munir)

Wearable Waveguide Antennas

(Davor Bonefačić, Davorin Mikulic, Juraj Bartolić, Zvonimir Sipus)

Wideband OFDM Backscatter with Limited-Bandwidth Antennas for WiFi-6 and Future High-Data-Rate Backscatter Systems

(James Rosenthal, Matthew Reynolds)

A smart IoT system for real-time monitoring of indoor and outdoor air quality using low-cost sensors

(Ainhua Osa-Sanchez, Begoña García Zapirain)

Development of an IoT-Based Real-Time Psychrometric Data Acquisition and Visualization System

(Milovan Medojevic, Dušan Simić, Milana Medojevic)

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(Hubertus Cornelius Franke)

Static and Dynamic Fingerprint of RFID devices

(Francesca Nanni, Gaetano Marrocco)

Taxonomy and Statistics of Cyber and Physical Vulnerabilities in Medical Devices

(Francesca Nanni, Francesco Lestini, Gaetano Marrocco)

Design and Experimental Measurement of RF Power Splitter Based on Cohn Topology

(Sarah Rahayu, Zulfi Zulfi, Rheyuniarto Sahlendar Asthan, Achmad Munir)

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Electromagnetic field-induced electrotaxis as a mechanism for reducing the neuroanatomical gap in cochlear implants
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SonicVision: Navigating Object Counting Frontiers with Ultrasonic Economy
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