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TU3P: Joint RWW Interactive Poster Session

Chair: Kevin Chuang, NanoSemi — Co-Chair: Spyridon Pavlidis, North Carolina State University

13:30–14:50, Tuesday 16 January 2018, Venue: Grand Ballroom A-D

PAGE 1 TU3P-16	Evaluation for Wireless Sensor Networks with LT Codes Considering Probabilities of Transmission Failure (Yuyuan Chang, Kazuhiko Fukawa)
PAGE 5 TU3P-17	Highly Accurate Radio Environment Mapping Method Based on Transmitter Localization and Spatial Interpolation in Urban LoS/NLoS Scenario (Kenta Tsukamoto, Masaki Kitsunezuka, Kazuaki Kunihiro)
PAGE 8 TU3P-18	Design of Stable Wireless Sensor Network for Slope Monitoring (Yuki Nishikawa, Takuya Sasamura, Yoichi Ishizuka, Satoshi Sugimoto, Shohei Iwasaki, Hongyan Wang, Tomoyuki Fujishima, Takafumi Fujimoto, Koichiro Yamashita, Takahisa Suzuki, Koji Kurihara)
PAGE 12 TU3P-19	Transmit Control and Data Separation in Physical Wireless Parameter Conversion Sensor Networks with Event Driven Sensors (Kyoosuke Fukuda, Osamu Takyu, Keiichiro Shirai, Mai Ohta, Takeo Fujii, Fumihito Sasamori, Shiro Handa)
PAGE 15 TU3P-20	Performance of Quadrature Phase Shift Frequency Selective Receiver in Presence of Blockers (Abul Hasan, Mohamed Helaoui, Fadhel M. Ghannouchi)
PAGE 19 TU3P-21	Submillimeter Wave Manifold Diplexer Designed in 65nm CMOS (Neha Mahendarkar Vijayakumar, Michael Gomez, Kenneth K. O, Rashaunda Henderson)

WE1D: Wireless Sensor Applications: Environments, Health, Home, Wearable, and Body Area Networks

Chair: Rahul Khanna, Intel Corp. — Co-Chair: Thomas Ussmueller, University of Innsbruck

08:00–09:40, Wednesday 17 January 2018, Venue: Garden 3

PAGE 23 WE1D-1	A High Frequency (HF) Inductive Power Transfer Circuit for High Temperature Applications Using SiC Schottky Diodes (Jennifer L. Jordan, George E. Ponchak, David J. Spry, Philip G. Neudeck)
PAGE 27 WE1D-2	Self-Injection-Locked Radar Sensor with Active-Integrated-Antenna and Differentiator-Based Demodulator for Noncontact Vital Sign Detection (Chao-Hsiung Tseng, Li-Te Yu)
PAGE 30 WE1D-3	An Inductive Through-the-Head OOK Communication Platform for Assistive Listening Devices (Jan-Christoph Edelmann, Rade Stojakovic, Christian Bauer, Thomas Ussmueller)
PAGE 34 WE1D-4	A New Heat-Warning-System Based on a Wireless Body Area Network for Protecting Firefighters in Indoor Operations (Marco Dietz, Martin Striegel, Robert Weigel, Amelie Hagelauer)
PAGE 38 WE1D-5	Device-Free Human Activity Microwave Detection (Kamel Haddadi, Christophe Loyez)

WE2D: Wireless Sensors for Communication, Radar, Positioning & Imaging Applications

Chair: Holger Maune, Technische Universität Darmstadt — Co-Chair: Luca Roselli, University of Perugia

10:10–11:50, Wednesday 17 January 2018, Venue: Garden 3

- PAGE 41
WE2D-1 **Integrated Planar 122GHz FMCW Radar with Frequency Scanning Antenna**
(Jochen Schäfer, Benjamin Göttel, Heiko Gulan, Thomas Zwick)
- PAGE 44
WE2D-2 **High Order Modulation Backscatter Systems Characterization**
(Marina Jordão, Ricardo Correia, Nuno Borges Carvalho)
- PAGE 47
WE2D-3 **Simultaneous Multi-Object Micro-Displacement Measurement by Multi-Spectral-Peak Radar Interferometry**
(Daisuke Matsuo, Shingo Yamanouchi, Kazumine Ogura, Masayuki Ariyoshi)
- PAGE 51
WE2D-4 **2D High Resolution of Stepped-FM Radar Based on MUSIC Scheme**
(K. Ogawa, A. Kajiware)
- PAGE 55
WE2D-5 **Real-Time GSM Broadcast Receiver on a Cortex-M4 Microcontroller**
(Stefan Erhardt, Felix Pflaum, Robert Weigel, Alexander Koelpin)
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WE3P: Joint RWW Interactive Poster Session

Chair: Jeremy Muldavin, MIT Lincoln Laboratory — Co-Chair: Robert Caverly, Villanova University

12:55–14:30, Wednesday 17 January 2018, Venue: Grand Ballroom A

- PAGE 59
WE3P-18 **Rectangular Waveguide Resonator for Gas Permittivity Measurement at X-Band**
(Jennifer L. Jordan, George E. Ponchak)
- PAGE N/A
WE3P-19 **Use of Balloons and Blimps to Improve Coverage Range in Low Power Wireless Wide Area Networks**
(P. Cielo, G.P. Colucci, M. Poletti, R. Stefanelli, D. Trincherio)
- PAGE 66
WE3P-20 **SILPLL Based Forced Opto-Electronic Oscillator Using a Phase Modulator in a Sagnac Loop**
(Francis T. Pantano, Kai Wei, Tianchi Sun, Afshin S. Daryoush)
- PAGE 70
WE3P-21 **A Simultaneous Wideband Impedance Matching and Bandpass Filtering Technique Using NUTL Segments at 15GHz**
(Rana A. Shaheen, A. Sethi, R. Akbar, Janne P. Aikio, T. Tuovinen, T. Rahkonen, A. Pärssinen)
- PAGE 73
WE3P-22 **A New Figure-of-Merit for CML Gate Delay Estimation**
(Asad Ali Nawaz, Jubaid Abdul Qayyum, Ahmet Cagri Ulusoy, John D. Cressler, Wibo Van Noort)
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WE3D: Six Port & Multi-port Technology

Chair: Alexander Koelpin, Brandenburg University of Technology — Co-Chair: Alessandra Costanzo, University of Bologna

13:30–14:50, Wednesday 17 January 2018, Venue: Garden 3

- PAGE 77
WE3D-1 **A 94-GHz Five-Port Reflectometer for Measuring Complex Reflection Coefficient Using 0.13- μ m SiGe HBT Detectors**
(Jubaid Abdul Qayyum, Asad Ali Nawaz, Minsu Ko, Andrea Malignaggi, Dietmar Kissinger, Ahmet Cagri Ulusoy)
- PAGE 80
WE3D-2 **Six-Port Reflectometer in WR15 Metallic Waveguide for Free-Space Sensing Applications**
(Kamel Haddadi, Christophe Loyez, Laurent Clavier, Denis Pomorski, Simon Lallemand)
- PAGE 84
WE3D-3 **Low-Power Frequency Synthesizer for Multi-Tone Six-Port Radar**
(Fabian Lurz, Patrick Hofstetter, Stefan Lindner, Sarah Linz, Fabian Michler, Robert Weigel, Alexander Koelpin)
- PAGE 88
WE3D-4 **Accurate FMCW Frequency Synthesis Using Six-Port Interferometry**
(Homa Arab, Cevdet Akyel, Serioja Tatu)

WE4D: Sensors for IoT Applications

Chair: Luca Roselli, University of Perugia — Co-Chair: Kamal Samanta, Zuken

15:40–17:20, Wednesday 17 January 2018, Venue: Garden 3

PAGE 92 WE4D-1	Analysis of a Multi-Node System for Crack Monitoring Based on Zero-Power Wireless Harmonic Transponders on Paper (Valentina Palazzi , Federico Alimenti , Paolo Mezzanotte , Giulia Orecchini , Luca Roselli)
PAGE 96 WE4D-2	Battery-Less UHF RFID Controlled Transistor Switch for Internet of Things Applications — A Feasibility Study (Manuel Ferdik , Georg Saxl , Thomas Ussmueller)
PAGE 99 WE4D-3	Ultra-Low-Power Ring Oscillator Based True Random Number Generator for Passive UHF RFID Tags (Georg Saxl , Manuel Ferdik , Thomas Ussmueller)
PAGE 103 WE4D-4	Measurement Results of Vehicular RCS Characteristics for 79GHz Millimeter Band (T. Motomura , K. Uchiyama , A. Kajiwara)
PAGE 107 WE4D-5	Ultra-Low-Power Sensor Node with Wake-Up-Functionality for Smart-Sensor-Applications (Felix Pflaum , Robert Weigel , Alexander Koelpin)