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MO1B: Biological/Medical Wireless Technologies I

Chair: Jan Wessel, IHP — Co-Chair: Changzhi Li, Texas Tech University

08:00–09:40, Monday 15 January 2018, Venue: Garden 1

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PAGE 4 MO1B-3	5.8-GHz ISM Band Intermodulation Radar for High-Sensitivity Motion-Sensing Applications (Ashish Mishra , Changzhi Li)
PAGE 7 MO1B-4	Indoor Localization Based on a Single-Tone SIMO-Structured Doppler Radar System (Anjie Zhu , Tenglong Fan , Zhitao Gu , Qinyi Lv , Changzhi Li , Lixin Ran)

MO2B: Antenna Technologies I

Chair: Rashaunda Henderson, University of Texas at Dallas — Co-Chair: Nuno Borges Carvalho, University of Aveiro

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PAGE 14 MO2B-2	Design and Characterization of Antenna Arrays in eWLB Package for 61GHz Radar Applications (Martin Frank , Pol Ghesquiere , Stefan Kiefl , Robert Weigel , Alexander Koelpin)
PAGE 18 MO2B-3	Microstrip-to-Waveguide Transition in Planar Form Using a Substrate Integrated Waveguide (Benedict Scheiner , Sebastian Mann , Fabian Lurz , Fabian Michler , Stefan Erhardt , Stefan Lindner , Robert Weigel , Alexander Koelpin)
PAGE 21 MO2B-4	Single Antenna Full Duplex Cancellation Network for ISM Band (Gavin T. Watkins , William Thompson , David Halls)
PAGE 25 MO2B-5	Enhancing the Quality Factor of Thin Film Printed Coils for Efficient Wireless Power Transfer (Yuki Nishizawa , Yoshiaki Narusue , Yoshihiro Kawahara)

MO3A: MIMO and Multi-Antennas Communications I

Chair: Kevin Chuang, NanoSemi — Co-Chair: Debabani Choudhury, Intel

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([Johannes A. Russer](#), [Michel T. Ivrlač](#), [Michael Haider](#), [Sidina Wane](#), [Damienne Bajon](#), [Josef A. Nossek](#))
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([Tobias Mahler](#), [Cornelius Richt](#), [Lisa Bell](#), [Mario Pauli](#), [Jerzy Kowalewski](#), [Thomas Zwick](#))
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([Yoshifumi Matsusaki](#), [Hirokazu Kamoda](#), [Koichiro Imamura](#), [Hiroyuki Hamazumi](#))
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([Tae Hwan Jang](#), [Hong Yi Kim](#), [H.S. Son](#), [Chae Jun Lee](#), [Dong Min Kang](#), [Hee Sung Lee](#), [Seung Hun Kim](#), [Chul Woo Byeon](#), [Chul Soon Park](#))
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MO3B: Passive Devices I

Chair: Dimitra Psychogiou, University of Colorado Boulder — Co-Chair: Abbas Omar, University of Magdeburg

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([Dimitra Psychogiou](#), [Roberto Gómez-García](#))
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([Christian Schuster](#), [Ran Hu](#), [Alex Wiens](#), [Matthias Maasch](#), [Rolf Jakoby](#), [Holger Maune](#))
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([Yu Li](#), [Jin Li](#), [Meng Zhang](#), [Hongbo Wang](#), [Jun Xu](#), [Shaoqiu Xiao](#))
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TU1A: Digital Signal Processing, SDR and Cognitive Radio

Chair: Nuno Borges Carvalho, University of Aveiro — Co-Chair: Kevin Chuang, NanoSemi

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([Kenneth E. Kolodziej](#), [Bradley T. Perry](#))
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([John C. Merritt IV](#), [Jonathan Chisum](#))

TU1B: Transceivers and Front-End Technologies

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

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(*Mathew Biedka, Qianteng Wu, Xiating Zou, Shihan Qin, Yuanxun Ethan Wang*)
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(*Jin-Siang Syu, Chinchun Meng, Chun Yang, Guo-Wei Huang*)
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(*Markus Scholl, Tobias Saalfeld, Jan Henning Mueller, Ye Zhang, Vahid Bonehi, Christoph Beyerstedt, Fabian Speicher, Moritz Schrey, Ralf Wunderlich, Stefan Heinen*)
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(*Shigeo Kawasaki, Ray Katoh, Tamotsu Suda, Yuki Nakano, Kazuhiro Fujimori, Jun Matsumoto, Hideki Kato, Osamu Mori, Junichiro Kawaguchi*)
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TU3P: Joint RWW Interactive Poster Session

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

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(*Lindsay Light, Yikun Huang, Ali R. Jishi, Qiang Xu, Yuanxun Ethan Wang*)
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(*Ronald Jacksha, Chenming Zhou, Carl Sunderman*)
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(*Anwer S. Abd El-Hameed, Adel Barakat, Adel B. Abdel-Rahman, Ahmed Allam, Ramesh K. Pokharel, Kuniaki Yoshitomi*)
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(*Yusuke Shirasaki, Osamu Takyu, Takeo Fujii, Tomoaki Ohtsuki, Fumihito Sasamori, Shiro Handa*)
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(*Yo-Sheng Lin, Kai-Siang Lan, Hsin-Chen Lin, Yun-Wen Lin*)
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(*Paolo Valerio Testa, Vincent Rieß, Corrado Carta, Frank Ellinger*)
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(*Waseem Ozan, Hedaia Ghannam, Paul Anthony Haigh, Izzat Darwazeh*)
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(*Yo-Sheng Lin, Yun-Wen Lin, Jia-Wei Gao, Kai-Siang Lan*)

TU4A: Biological/Medical Wireless Technologies II

Chair: Changzhi Li, Texas Tech University — Co-Chair: Roberto Gomez-Garcia, University of Alcala

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(*Philipp Hügler, Martin Geiger, Christian Waldschmidt*)
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(*Tianyi Zhou, Anjie Zhu, Yuzhou Shen, Huan Li, Changzhi Li, Jiangtao Hangfu*)
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(*J. Wessel, K. Schmalz, J.C. Scheytt, Dietmar Kissinger*)
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TU4A-4 **On the Use of the FBMC Modulation to Increase the Performance of a Wake-Up Radio**
(*Florin Hutu, Guillaume Villemaud*)
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TU4A-5 **Microwave Energy Focus by Spatial-Frequency Discrete Antenna Array**
(*Yuzhou Shen, Jiangtao Huangfu, Tianyi Zhou, Anjie Zhu, Dexin Ye, Lixin Ran*)
-

TU4B: mm-Wave and Higher Frequency Applications

Chair: Ko Minsu, IHP — Co-Chair: Q. Jane Gu, University of California at Davis

15:10–16:50, Tuesday 16 January 2018, Venue: Garden 2

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(*Xiaoguang Liu*)
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(*Pedro Rodríguez-Vázquez, Janusz Grzyb, Neelanjan Sarmah, Bernd Heinemann, Ullrich R. Pfeiffer*)
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(*A. Fung, L. Samoska, P. Kangaslahti, R. Lin, I. Mehdi, G. Sadowy, S. Tanelli, D. Esteban-Fernandez, A. Peralta, M. Soria, A. Brown, D. Gritters, S. O'Connor, S. Lardizabal*)
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(*K. Takano, K. Katayama, S. Hara, R. Dong, K. Mizuno, K. Takahashi, A. Kasamatsu, T. Yoshida, S. Amakawa, M. Fujishima*)
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TU4B-5 **A Study of Impacts of ESD Protection on 28/38GHz RF Switches in 45nm SOI CMOS for 5G Mobile Applications**
(*Chenkun Wang, Fei Lu, Qi Chen, Feilong Zhang, Cheng Li, Dawn Wang, Albert Wang*)
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Chair: Robert Caverly, Villanova University — Co-Chair: Jennifer Kitchen, Arizona State University

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(*Albert Sabban*)
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WE1A-2 **Smart Sticker Including Split Square Rings for Adapting Mobile Phone Radiation Pattern to Lower SAR**
(*Hengyi Zhou, Arpan Pal, Amit Mehta, Dariush Mirshekar-Syahkal, Hisamatsu Nakano*)
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(*Gaurav Upadhyay, Prashant Ranjan, Nand Kishore, Vijay Shanker Tripathi, Shivesh Tripathi*)

WE1B: Emerging Wireless Technologies and Applications

Chair: Nuno Borges Carvalho, University of Aveiro — Co-Chair: Roberto Gomez-Garcia, University of Alcala

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(*Zach Vander Missen, Abbas Semnani, Edward Viveiros, Dimitrios Peroulis*)
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(*Jing Wang, Yao Tang, José-María Muñoz-Ferreras, Roberto Gómez-García, Changzhi Li*)
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(*Johann Lichtblau, Benedikt Sanftl, Fabian Lurz, Robert Weigel, Alexander Koelpin*)
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WE2A: 3D & Novel Engineered

Chair: Benjamin Cook, Texas Instruments — Co-Chair: Robert Caverly, Villanova University

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(*Stéphane Larouche, Xing Lan, Eric Kaneshiro, Augusto Gutierrez-Aitken, Vesna Radisic*)
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Chair: Roberto Gomez-Garcia, University of Alcala — Co-Chair: Abbas Omar, University of Magdeburg

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(*Arseni Yalouskikh, Yikun Huang, Yuanxun Ethan Wang*)
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(*Sandhya Krishna, Ghanshyam Mishra, Satish K. Sharma*)

WE3P: Joint RWW Interactive Poster Session

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

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Chair: Robert Caverly, Villanova University — Co-Chair: Rashaunda Henderson, University of Texas at Dallas

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(*Liang-Feng Qiu, Lin-Sheng Wu, Wen-Yan Yin, Jun-Fa Mao*)
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(*Senad Bulja, Efstratios Doumanis, Dmitry Kozlov*)
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(*Wael Abdullah Ahmad, Dietmar Kissinger, Herman Jalli Ng*)
-

WE3B: RWS Late News: Active Circuits

Chair: Charlie Jackson, Northrop Grumman Corporation — Co-Chair: Abbas Omar, University of Magdeburg

13:30–15:10, Wednesday 17 January 2018, Venue: Garden 1

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(*Ashish Mishra, Chen Song, Wen Yao Xu, Changzhi Li*)
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WE3B-3 **Compact Low-Cost Five-Band RF Energy Harvester Using System-in-Package Integration**
(*Yen-Wei Chang, Ming-Che Yu, Hsien-Jia Lin, Chun-Hsing Li*)
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(*Matthew Dwyer, Honghyuk Kim, Luke Mawst, Daniel van der Weide*)
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(*Wei Jiang, Yifei Jin, Tengxing Wang, Yong Huang, Guoan Wang*)