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	EuMC43 **Advanced Packaging and Interconnects** Chair: Jean-Francois Villemazet, Thales Alenia Space Co-Chair: Wolfgang Heinrich, Ferdinand-Braun-Institut (FBH)	**EuMC44** **Wide-band, Multi-band and Multi-Mode Planar Filters** Chair: Giuseppe Macchiarella, Politecnico di Milano Co-Chair: Roberto Gómez, Universidad Alcala de Henares	**EuMC45** **Biosensors** Chair: Katia Grenier, LAAS-CNRS Toulouse Co-Chair: R. Jacoby, TU Darmstadt	**EuMC46** **THz Components** Chair: Jan Stake, Chalmers University of Technology Co-Chair: Viktor Krozer, Goethe-Universität Frankfurt
08:30h - 08:50h	***EuMC43-01*** ***Grooved Laminated Waveguide Devices for U-, V-, W- and D-band Applications*** C. Kärnfelt, P. Coant, M. Sinou, J. Coupez, D. Bourreau, A. Péden, Télécom Bretagne/ Institut Mines Télécom, Lab-Sticc UMR 6285, Brest, France	***EuMC44-01*** ***Balanced Filter Using Dual-mode Ring Resonators*** W. Feng[1], W. Che[1], Q. Xue[2], [1]Nanjing University of Science & Technology, Nanjing, China, [2] City University of Hong Kong, Hongkong, China	***EuMC45-01*** ***Dual-Purpose Microwaves Application: Blood Sensing and Self-Blood Treatment*** K. A. Arkhypova[1,2], A. V. Nosatov[3], P. S. Krasov[1], A. I. Fisun[1], M. Nurushev[4], V. O. Malakhov[2], [1]O.Y. Usikov Institute for Radio-Physics and Electronics NASU, Kharkiv, Ukraine, [2]Kharkiv Medical Academy of Post-Graduate Education (KhMAPE), Kharkiv, Ukraine, [3]Kharkiv City Clinical Hospital No 7, Kharkiv, Ukraine, [4]L.N. Gumilyov Eurasian National University, Astana, Kazakhstan	***EuMC46-01*** ***1.9-3.2 THz Schottky Based Harmonic Mixer Design and Characterization*** B. T. Bulcha[1,2], J. L. Hesler[1], V. Drakinskiy[3], J. Stak[3], N. S. Barker[2], [1]Virginia Diodes, Inc, Charlottesville, United States, [2]University Of Virginia, Charlottesville, United States, [3]Chalmers University of Technology, Göteborg, Sweden
08:50h - 09:10h	***EuMC43-02*** ***Wideband RF Interconnects for Organic Chip Packages*** F. X. Röhrl[1], W. Bogner[1], J. Jakob[1], D. Hageneder[2], [1]THD Technische Hochschule Deggendorf, Deggendorf, Germany, [2]Rohde und Schwarz GmBH & Co., Teisnach, Germany	***EuMC44-02*** ***Dual-Wideband BPF Consisting of a Parallel-Coupled SIR and Open-Ended Stubs with Transmission Zeros*** C. Chen[1], N. Kato[1], T. Anada[1], S. Takeda[2], Z. Ma[3], [1]Kanagawa University, Yokohama, Japan, [2]Antenna Giken Co.,Ltd, Saitama, Japan, [3]Saitama University, Saitama, Japan	***EuMC45-02*** ***K-band BiCMOS Based Near-Field Biomedical Dielectric Sensor for Detection of Fat and Calcium in Blood*** F. Jamal, S. Guha, M. Eissa, S. Vehring, C. Meliani, IHP - Innovations for High Performance Microelectronics, Frankfurt (Oder), Germany	***EuMC46-02*** ***An Efficient 290 GHz Harmonic Oscillator in Transferred-Substrate InP-DHBT Technology*** M. Hossain, K. Nosaeva, B. Janke, N. Weimann, O. Krüger, V. Krozer, W. Heinrich, Ferdinand-Braun-Institut, Berlin, Germany
09:10h - 09:30h	***EuMC43-03*** ***An Advanced Transmit/ Receive 3D ceramic Hybrid Circuit Module for Space Applications*** A. Fina[1], U. Di Marcantonio[1], A. Suriani[1], A. Orlandi[2], P. Tognolatti[2], G. Mannocchi[1], [1]Thales Alenia Space Italia, L'Aquila, Italy, [2]Università degli Studi di L'Aquila, L'Aquila, Italy	***EuMC44-03*** ***Design of a Triband Lumped Element Filter for Digital Microwave Power Amplifiers*** M. Martinez Mendoza[1], A. Wentzel[1], A. Alvarez Melcon[2], W. Heinrich[1], [1]Ferdinand Braun Institut (FBH), Berlin, Germany, [2]Universidad Politecnica Cartagena, Cartagena, Spain	***EuMC45-03*** ***Conformal mm-Wave Antennas for Catheter embedded Atherosclerotic Plaque Sensors*** G. Notzon[1], C. Baer[1], T. Musch[1], C. Dahl[2], I. Rolfes[2], [1]Institute of Electronic Circuits, Ruhr-University Bochum, Bochum, Germany, [2]Institute of Microwave Systems, Ruhr-University Bochum, Bochum, Germany	***EuMC46-03*** ***A Dual-Output 550 GHz Frequency Tripler featuring Ultra-Compact Silicon Micromachining Packaging and Enhanced Power-Handling Capabilities*** J. V. Siles, C. D. Jung-Kubiak, T. Reck, C. Lee, R. H. Lin, G. Chattopadhyay, I. Mehdi, NASA Jet Propulsion Laboratory, Pasadena, United States
09:30h - 09:50h	***EuMC43-04*** ***A 5.4W X-Band Gallium Nitride (GaN) Power Amplifier in an Encapsulated Organic Package*** S. Pavlidis, A. C. Ulusoy, J. Papapolymerou, Georgia Institute of Technology, Atlanta, United States	***EuMC44-04*** ***Design of High-Selectivity Microstrip Bandpass Filter Using Triple-Mode Stub Loaded Resonator*** A. K. Gorur[1,2], M. Emur[2], C. Karpuz[2], A. Ozek[2], [1]Nevsehir Haci Bektas Veli University, Nevsehir, Turkey, [2]Pamukkale University, Denizli, Turkey	***EuMC45-04*** ***Parametric Study of a Microwave Sensor Dedicated to the Dielectric Spectroscopy of Single Particles and Biological Cells*** W. Chen, D. Dubuc, K. Grenier, LAAS-CNRS and Toulouse Univ., Toulouse, France	***EuMC46-04*** ***High Power LO Signals Generation for THz Multi-Pixel Array Receiver*** X. Chen[1], W. Cui[1], X. Li[1], T. Hu[1], Z. Zhu[1], Z. Chen[2], J. Ge[2], [1]Xi'an Institute of Space Radio Technology, Xi'an, China, [2]Nanjing University of Information Science & Technology, Nanjing, China
09:50h - 10:10h	***EuMC43-05*** ***Plastic Packaged E-mode Transistors to 50 GHz with Integrated ESD Protection and Bias Control*** H. Morkner, A. Riddle, MACOM Technology Solutions, Lowell, United States	***EuMC44-05*** ***Modified Split-Ring Resonator for Microstrip Dual-Band Notch Filter*** J. Hinojosa[1], F. Martínez-Viviente[1], J. Ruiz[1], A. Alvarez-Melcon[1,2], [1]Unversidad Politécnica de Cartagena, Cartagena, Spain, [2]Unversidad Politécnica de Cartagena, Cartagena, Spain	***EuMC45-05*** ***Parallelization of Dielectric Measurements at Microwaves for Microfluidic Biosensor Arrays*** M. Schüßler[1], M. Puentes[1], R. Jakoby[1], D. Dubuc[2], K. Grenier[2], [1]TU Darmstadt, Darmstadt, Germany, [2]LAAS CNRS, Toulouse, France	***EuMC46-05*** ***A Robust Waveguide Millimeter-Wave Noise Source*** N. Ehsan[1], J. Piepmeier[1], M. Solly[1], S. Macmurphy[2], J. Lucey[1], E. Wollack[1], [1]NASA Goddard Space Flight Center, Greenbelt, United States, [2]AS and D, Inc., Greenbelt, United States

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EuRAD04 **Innovative Doppler Radar Processing** Chair: Barbaresco Frederic, Thales Air Systems Co-Chair: Alfonso Farina, Selex ES	**EuRAD05** **Propagation and scattering** Chair: Christophe Bourlier, Polytech Nantes Co-Chair: Oleg Krasnov, Delft University of Technology	**EuMC/EuRAD06** **Array Antennas - Design & Concepts** Chair: Peter Gardner, University of Birmingham, UK Co-Chair: Ioan E. Lager, Delft University of Technology, the Netherlands	**EuMC/EuRAD07** **Antenna Arrays for Different Applications** Chair: Jean-Marc Goutoule, Airbus Defence and Space Co-Chair: Alexander Yarovoy, Delft University of Technology	
EuRAD04-01 ***Radar Detection for Non-Stationary Doppler Signal in one Burst Based on Information Geometry*** F. Barbaresco[1], [1]Thales Air Systems, Limours, France	***EuRAD05-01*** ***Measuring Refractivity Profiles in the Marine Environment using Radiosondes Launched with a Pneumatic Line Thrower*** M. Meltzer[1], P. Oestenstad[1], A. Hesby[2], G. Nonsvik[1], B. Sagsveen[1], [1]Norwegian Defence Research Establishment, Kjeller, Norway, [2]Royal Norwegian Navy, Bergen, Norway	***EuMC/EuRAD06-01*** ***An Implemented Non-Focal Rotman Lens*** M. Rajabalian, B. Zakeri, Babol University of Technology, Babol, Iran	***EuMC/EuRAD07-01*** ***An Agile Electronically Scanned EBG Matrix Antenna For Monitoring Target Activity*** H. Abou Taam[1,2], A. Siblini[1,2], G. Zakka El Nashef[1], E. Arnaud[1], N. Chevalier[1], B. Jecko[1], M. Rammal[2], [1]XLIM, Limoges, France, [2]Lebanese University, Beirut, Lebanon	08:30h - 08:50h
EuRAD04-02 ***Iterative Adaptive Approach for Unambiguous Wideband Target Detection*** N. Petrov, F. Le Chevalier, TU Delft, Delft, Netherlands	***EuRAD05-02*** ***X-Band Avionic Weather Radar Simulator: Outputs Testing and Analysis*** E. Barcaroli[1], A. Lupidi[1], F. Cuccoli[1], L. Baldini[2], L. Facheris[3], [1]RaSS-CNIT, Florence, Italy, [2]CNR, Rome, Italy, [3]University of Florence, Florence, Italy	***EuMC/EuRAD06-02*** ***A Study of Multi-Phase Vector-Sum Phase Shifters for Phased Array*** A. Honda, T. Shimura, Y. Ohashi, Fujitsu Laboratories Ltd., Kawasaki-Shi, Japan	***EuMC/EuRAD07-02*** ***Comparison of Virtual Arrays for MIMO Radar Applications Based on Hexagonal Configurations*** C. Dahl[1], I. Rolfes[1], M. Vogt[2], [1]Institute of Microwave Systems, Ruhr-University Bochum, Bochum, Germany, [2]High Frequency Engineering Research Group, Ruhr-University Bochum, Bochum, Germany	08:50h - 09:10h
EuRAD04-03 ***Robust Burg Estimation of Radar Scatter Matrix for Constrained Stationary SIRV*** A. Decurninge, F. Barbaresco, Thales Air Systems, Limours, France	***EuRAD05-03*** ***Quantitative Analysis of Incoherent Polarimetric Decomposition Techniques for Weather Radar Data*** A. Lupidi, S. Lischi, F. Cuccoli, CNIT, Pisa, Italy	***EuMC/EuRAD06-03*** ***Analysis and Design of a Slotted Waveguide Antenna Array using Hollow Substrate Integrated Waveguide*** L. Jin, R. M. Lee, I. D. Robertson, University of Leeds, Leeds, United Kingdom	***EuMC/EuRAD07-03*** ***Wideband Antenna Array for Real-Time Data and Video Transmission*** J. Floc'h, B. El Jaafari, A. El Sayed Ahmed, Institut National des Sciences Appliquées de Rennes, Rennes, France	09:10h - 09:30h
EuRAD04-04 ***Single MLP-CFAR for a Radar Doppler Processor Based on the ML Criterion. Validation on Real Data.*** N. del-Rey-Maestre, D. Mata-Moya, P. Jarabo-Amores, P. Gomez-del-Hoyo, J. Martin-de-Nicolas, University of Alcala, Alcala de Henares, Spain	***EuRAD05-04*** ***Three-Component Decomposition Based on Stokes Vector for Compact Polarimetric SAR under the CTLR Mode*** H. Wang[1], Z. Zhou[1], J. Turnbull[2], Q. Song[1], F. Qi[3], [1]National University of Defense Technology, Changsha, China, [2]University of Birmingham, Birmingham, United Kingdom, [3]University of Birmingham, Birmingham, United Kingdom	***EuMC/EuRAD06-04*** ***Design of a Scalable Phased Array Antenna with Simplified Architecture*** F. Akbar, A. Mortazawi, University of Michigan-Ann Arbor, Ann Arbor, United States	***EuMC/EuRAD07-04*** ***Multi-beam Tapered Slot Antenna Array Using Substrate Integrated Waveguide Rotman Lens*** J. Pourahmadazar, T. A. Denidni, National Institute of Scientific Research (INRS) Centre for Energy, Materials and Telecommunication, Montreal, Canada	09:30h - 09:50h
EuRAD04-05 ***Simultaneous Air/Air and Air/Ground Radar Modes with a Single Antenna.*** C. Enderli, M. Montecot, T. Sfez, M. Schaub, Thales Systemes Aeroportes, Elancourt, France	***EuRAD05-05*** ***Analysis of Canonical Targets in Near Field for Forward Scatter Radar Applications*** M. T. Falconi, D. Comite, F. S. Marzano, A. Galli, P. Lombardo, Sapienza University of Rome, Rome, Italy	***EuMC/EuRAD06-05*** ***Design Considerations on a Sparse Array Antenna for Ka-Band Spaceborne SAR Applications*** B. Jacobs[1], D. Bekers[1], S. Monni[1], M. Otten[1], W. van Rossum[1], G. Gerini[1], C. Germani[2], D. Fortini[2], G. Toso[3], [1]TNO Defense Safety and Security, The Hague, Netherlands, [2]Thales Alenia Space – Italia, Rome, Italy, [3]ESA estec, Noordwijk, Netherlands	***EuMC/EuRAD07-05*** ***Wide Angle Scanning Reconfigurable Beam Steering Antenna*** T. Sabapathy[1], M. Jusoh[1], R. Ahmad[1], M. Kamarudin[2], [1]Embedded, Network and Advanced Computing (ENAC), Pauh Putra, Malaysia, [2]Wireless Communication Center (WCC), Skudai, Malaysia	09:50h - 10:10h

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	EuMC47 **Flexible Stretchable and Printed Technology** Chair: Dimitri Pavlidis, Boston University Co-Chair: Henri Happy, University of Lille	**EuMC48** **Wireless Technologies** Chair: Andrew Gibson, University of Manchester Co-Chair: Noushin Karimian, University of Manchester	**EuMC49** **Silicon Front-End Subsystems** Chair: Cicero Voucher, NXP Co-Chair: Almudena Suarez, University of Cantabria	**EuMC50** **Emerging THz Technologies** Chair: Antti Räisänen, Aalto University Co-Chair: Dirk Nüßler, Fraunhofer FHR
10:50h - 11:10h	***EuMC47-01*** ***Inkjet-Printed, Flexible, High Performance, Carbon Nanomaterial Based Sensors for Ammonia and DMMP Gas Detection.*** J. G. Hester[1], M. M. Tentzeris[1], Y. Fang[2], [1]School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, United States, [2]School of Material Science, Georgia Institute of Technology, Atlanta, United States	***EuMC48-01*** ***A 2.45 GHz, 100 Mbps BPSK-DSSS Transmitter for Interference-Robust Wireless Neuroprosthetic Networks*** P. Agarwal[1], L. Renaud[1], J. Baylon[1], D. Majumdar[3,2], D. Heo[1], C. Schlegel[2], [1]Washington State University, Pullman, United States, [2]Dalhousie university, Halifax, Canada, [3]Daxsonics Ultrasound Inc, Halifax, Canada	***EuMC49-01*** ***Design of a Differential Diplexer Based on Integrated Active Inductors with 0.25 _m SiGeC Process*** C. H. Sy, S. Bosse, S. Barth, S. R. Harison, Observatoire de Paris, Nançay, France	***EuMC50-01*** ***Performance Enhancement of 300 GHz on-Chip Double Slot Antenna by Means of Artificial Dielectrics*** W. H. Syed, G. Fiorentino, D. Cavallo, P. M. Sarro, A. Neto, I. E. Lager, Delft University of Technology, Delft, Netherlands
11:10h - 11:30h	***EuMC47-02*** ***Study and Characterization of CNT Inkjet Printed Patterns for Paper-Based RF Components*** C. Paragua, K. Frigui, S. Bila, D. Baillargeat, XLIM UMR 7252, University of Limoges/ CNRS, Limoges, France	***EuMC48-02*** ***Measurement of Human Exposure to LTE Base Stations - Present Status and Future Challenges*** C. Bornkessel[1], M. A. Hein[1], M. Wuschek[2], [1]Technische Universitaet Ilmenau, Ilmenau, Germany, [2]Technische Hochschule Deggendorf, Deggendorf, Germany	***EuMC49-02*** ***A Ku-Band Series/Shunt Switching Type S/H IC for Direct RF Under Sampling Reception*** T. Koizumi, M. Motoyoshi, D. Banda, O. Wada, S. Kameda, N. Suematsu, T. Takagi, K. Tsubouchi, Tohoku University, Sendai, Japan	***EuMC50-02*** ***Array of Dielectric Rod Waveguide Antennas for Millimeter-Wave and THz Power Generation*** A. Rivera-Lavado[1], S. Preu[2], E. Garcia[1], A. Generalov[3], J. Montero[1], G. Dohler[2], D. Lioubtchenko[3], M. Mendez[1], S. Malzer[2], S. Llorente-Romano[1], A. Garcia-Lamperez[1], M. Salazar-Palma[1], D. Segovia[1], A. Raisanen[3], [1]Universidad Carlos III de Madrid, Leganes, Spain, [2]Friedrich-Alexander Universitat Erlangen-Nurnberg, Erlangen, Germany, [3]Aalto University, Espoo, Finland
11:30h - 11:50h	***EuMC47-03*** ***Inkjet-Printing of Hybrid Ag/Conductive Polymer Towards Strechable Microwave Devices*** S. Pacchini[1,2], M. Cometto[1,2], J. Chok[1,2], G. Dufour[3], N. Tiercelin[3], P. Pernod[3], T. Kang[1,2], P. Coquet[1,2,3], [1]Cintra CNRS/NTU/THALES, UMI 3288, Singapore, Singapore, [2]School of Electrical and Electronics Engineering, Singapore, Singapore, [3]Joint International Laboratory LICS/LEMAC, IEMN UMR CNRS 8520, Villeneuve dAscq, France	***EuMC48-03*** ***Portable 9.4/18.8 GHz harmonic radar system using PRN code principle*** M. Hsu[1], S. Jan[1], Z. Tsai[1], H. Wang[2], F. Chang[2], P. Jau[2], K. Lin[2], [1]National Chung Cheng University, Chiayi, Taiwan, [2]National Taiwan University, Taipei, Taiwan	***EuMC49-03*** ***A 2-30 GHz Ring Mixer with Active Baluns in 0.18-um CMOS Technology for Vital Sign Detection*** H. Wang[1], J. Cheng[1], J. Zhong[1], T. Huang[1], J. Tsai[2], [1]Graduate Institute of Communication Engineering, National Taiwan University, Taipei, Taiwan, [2]Dept. of Electrical Engineering, National Taiwan Normal University, Taipei, Taiwan	***EuMC50-03*** ***A Novel Wide-Band Finger-Shaped Phase Shifter Based on Silicon-On-Glass (SOG) Technology for Sub-Millimeter Wave and Terahertz Applications*** A. Taeb[1], S. Gigoyan[1], S. Safavi-Naeini[1], M. Basha[2], [1]University of Waterloo, Waterloo, Canada, [2]Zewail City of Science and Technology, Sheikh Zayed City, Egypt
11:50h - 12:10h	***EuMC47-04*** ***Ultra-Foldable/ Stretchable Wideband RF Interconnects Using Laser Ablation of Metal Film on a Flexible Substrate*** S. Bouaziz, M. Berthomé, J. F. Robillard, E. Dubois, Institut d'Electronique, de Microélectronique et de Nanotechnologie, Villeneuve d'Ascq, France	***EuMC48-04*** ***A Wide Dynamic Range Microwave Frequency Discriminator for Cognitive Radio*** D. Chatterjee, K. Blau, M. Hein, Technische Universität Ilmenau, Ilmenau, Germany	***EuMC49-04*** ***A Low-Power and Low-Noise X-Band Receiver MMIC in 90nm CMOS*** P. Wang[1], Y. Shen[1], T. Wu[1], M. Chen[1], Y. Chang[1,2], D. Chang[2], S. S. Hsu[1], [1]National Tsing Hua University, Hsinchu, Taiwan, [2]National Chip Implementation Center, Hsinchu, Taiwan	***EuMC50-04*** ***Electronic THz-spectrometer for Plasmonic Enhanced Deep Subwavelength Layer Detection*** A. Berrier[1], L. Tripodi[2], H. Schäfer-Eberwein[3], M. C. Schaafsma[4], M. K. Matters-Kammerer[5], P. Haring-Bolivar[3], J. Gómez-Rivas[4,6], [1]Universität Stuttgart, Stuttgart, Germany, [2]ASML, Veldhoven, Netherlands, [3]Universität Siegen, Siegen, Germany, [4]AMOLF, Eindhoven, Netherlands, [5]Eindhoven University of Technology, Eindhoven, Netherlands, [6]Eindhoven University of Technology, Eindhoven, Netherlands
12:10h - 12:30h	***EuMC47-05*** ***Design of Kapton Based Passive Circuits at Microwave Frequencies*** Z. Yang[1,3], A. Takacs[1,2], S. Charlot[1], D. Dragomirescu[1,3], [1]LAAS-CNRS, Toulouse, France, [2]Univ de Toulouse, UPS, Toulouse, France, [3]Univ de Toulouse, INSA, Toulouse, France		***EuMC49-05*** ***A Robust Low Phase Noise and Wide Tuning Range Ku-Band Sub- Integer Frequency Synthesizer for E-Band Backhaul Transceivers*** R. Levinger, O. Katz, J. Vovnoboy, R. Ben-Yishay, R. Carmon, B. Shienman, N. Mazor, D. Elad, IBM, Haifa, Israel	***EuMC50-05*** ***Detection of DNA by Graphene-on-Silicon FET Structures Simultaneously at DC and 101 GHz*** E. R. Brown[1], W. Zhang[1], L. Viveros[1], D. Neff[2], N. Green[2], M. L. Norton[2], P. H. Pham[3], P. J. Burke[3], [1]Wright State University, Dayton, United States, [2]Marshall University, Huntington, United States, [3]University of California, Irvine, United States

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EuRAD06 **Waveform diversity** Chair: Francois Le Chevalier, Delft University of Technology Co-Chair: Andreas Stelzer, Johannes Kepler University	**EuRAD07** **Clutter modeling** Chair: Mikhail Cherniakov, University of Birmingham Co-Chair: Stephane Kemkenian, THALES SA	**EuMC/EuRAD08** **Array Antennas - Implementation** Chair: Ioan E. Lager, Delft University of Technology, the Netherlands Co-Chair: Peter Gardner, University of Birmingham, UK	**EuMC/EuRAD09** **Antenna Arrays and Beam Scanning** Chair: Olivier Lafond, University of Rennes 1 Co-Chair: Dirk Heberling, Aachen University	
EuRAD06-01 ***A Novel Barker Code Algorithm For Resolving Range Ambiguity In High PRF Radars*** S. M. Omar[1], F. Kassem[1], R. Mitri[1], H. Hijazi[1], M. Saleh[2], [1]School of Engineering, Lebanese International University, Beirut, Lebanon, [2]Faculty of Sciences I, Lebanese University, Beirut, Lebanon	***EuRAD07-01*** ***Characterisation of Attenuation at Low THz Frequencies in Radar Sensors*** F. Norouzian, F. Qi, B. Willets, M. Gashinova, C. Constantinou, P. Gardner, E. Hoare, M. Cherniakov, University of Birmingham, Birmingham, United Kingdom	***EuMC/EuRAD08-01*** ***Prototype of 21-GHz Band Beam Forming Network for Array-fed Imaging Reflector Antenna*** M. Nagasaka, S. Nakazawa, M. Kamei, S. Tanaka, T. Saito, Japan Broadcasting Corporation, Tokyo, Japan	***EuMC/EuRAD09-01*** ***Pulsed-field array performance: A TD analysis*** I. E. Lager, Delft University of Technology, Delft, Netherlands	10:50h - 11:10h
EuRAD06-02 ***Phase Migration Effects in Moving Target Localization using Switched MIMO Arrays*** D. Zoeke[1,2], A. Ziroff[3], [1]Univ. of Erlangen-Nuremberg, Erlangen, Germany, [2]Siemens AG, Erlangen, Germany, [3]Siemens AG, Munich, Germany	***EuRAD07-02*** ***Statistical Analysis of Measured High Resolution Land Clutter at X-Band and Clutter Simulation*** A. Melebari[1], A. Mishra[3], M. Abdul Gaffar[2], [1]King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia, [2]Council for Scientific and Industrial Research (CSIR), Pretoria, South Africa, [3]University of Cape Town, Cape Town, South Africa	***EuMC/EuRAD08-02*** ***Compact Scan-Phase Antenna Diversity System for High Driving Speeds*** S. Senega, A. Nassar, S. Lindenmeier, Universität der Bundeswehr München, Neubiberg, Germany	***EuMC/EuRAD09-02*** ***Waveguide-Type Discrete Beam-Scan Antenna with Switching Diodes*** H. Kubo, T. Yamamoto, M. Takamatsu, A. Sanada, Yamaguchi University, Ube-shi, Japan	11:10h - 11:30h
EuRAD06-03 ***Experimental Implementation of an Ultra-Wide Band MIMO Radar*** E. Kpré, T. Fromenteze, C. Decroze, Xlim research institute, Limoges university, Limoges, France	***EuRAD07-03*** ***Road Clutter Spectrum of BSD FMCW Automotive Radar*** Y. Ma[1], C. Cui[1], B. Kim[1], J. Joo[2], S. Jeon[2], S. Nam[3], [1]Sungkyunkwan University, Suwon, Republic of Korea, [2]Hyundai Motor Company, Hwaseong, Republic of Korea, [3]Seoul National University, Seoul, Republic of Korea	***EuMC/EuRAD08-03*** ***Implementation of the Ubiquitous Radar Concept with a Conformal Array*** P. Carta[1], G. Galati[1], E. G. Piracci[1], F. Madia[2], R. Ronconi[2], [1]University of Roma Tor Vergata, Roma, Italy, [2]Fincantieri SpA /Seastema, Roma, Italy	***EuMC/EuRAD09-03*** ***Linear Dual-Band Phased Arrays with Wide-Angle Scanning Capability*** S. Valavan[1], D. Tran[2], A. G. Yarovoy[2], A. G. Roederer[2], [1]Fraunhofer FHR, Wachtberg, Germany, [2]Delft University of Technology, Delft, Netherlands	11:30h - 11:50h
EuRAD06-04 ***Adaptive Waveform Design for Multi-Sector Array Isolation*** J. M. Kurdzo[1,2], R. D. Palmer[1,2], B. L. Cheong[1], M. E. Weber[3,4], [1]Advanced Radar Research Center, University of Oklahoma, Norman, United States, [2]School of Meteorology, University of Oklahoma, Norman, United States, [3]Cooperative Institute for Mesoscale Meteorological Studies, University of Oklahoma, Norman, United States, [4]OAR National Severe Storms Laboratory, Norman, United States	***EuRAD07-04*** ***Modeling of Sea Spike Events with Generalized Extreme Value Distribution*** H. Ding, N. Liu, G. Wang, J. Guan, Naval Aeronautical and Astronautical University, NAAU, Yantai, China	***EuMC/EuRAD08-04*** ***Analog Beamforming Network for Ka Band Satellite on the Move Terminal with Phase Shifting Technique Based on I/Q Mixer*** S. Alessandro[1], M. De Bilio[1], I. Pomona[2], S. Coco[3], G. Bavetta[3], A. Laudani[4], [1]Selex ES, Catania, Italy, [2]RF System Engineer Consultant, Acireale, Italy, [3]University of Catania, Catania, Italy, [4]Roma Tre University, Roma, Italy	***EuMC/EuRAD09-04*** ***Antenna for 3D Radar Demonstrator*** V. Zavodny, P. Kopecky, Eldis Pardubice L.T.D., Pardubice, Czech Republic	11:50h - 12:10h
EuRAD06-05 ***A Stepped-Carrier 77-GHz OFDM MIMO Radar System with 4 GHz Bandwidth*** C. Pfeffer, R. Feger, A. Stelzer, Johannes Kepler University Linz, Linz, Austria	***EuRAD07-05*** ***Approximate Fractality of Sea Clutter Fractional Fourier Transform Spectrum*** N. Liu, H. Ding, Y. Huang, J. Guan, Naval Aeronautical and Astronautical University, NAAU, Yantai, China	***EuMC/EuRAD08-05*** ***Compact Ku-band GaAs Multifunction Chip for SATCOM Phased Arrays*** D. Shin[1], J. Jeong[1], S. Moon[1], I. Yom[1], D. Kim[2], [1]Electronics and Telecommunications Research Institute, Daejeon, Republic of Korea, [2]Chungnam National University, Daejeon, Republic of Korea	***EuMC/EuRAD09-05*** ***Design of a Waveguide Slot Array Antenna for Monopulse Tracking Application in Millimeter Wave*** W. Zhang, F. Cui, Q. Wang, X. He, C. She, Y. He, China Academy of Engineering Physics, Mianyang, China	12:10h - 12:30h

EuRAD/EuMC Poster01 Session

Chair: Michèle Lalande, University of Limoges

Co-Chair: Laurent Ferro-Famil, University of Rennes 1

12:30h - 14:10h

The posters are on display from 12:30h - 14:10h
The authors are present for discussion from 12:30h - 14:10h

EuRAD 2015

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Hall Ternes - Level 1

EuRAD/EuMC Poster01-01 RotoSAR: a New Concept of Ground-Based SAR

M. Pieraccini, A. Nicola, P. Federico, R. Silvestro, University of Florence, Firenze, Italy

EuRAD/EuMC Poster01-02 A Real-Time Multiple Target Detecting Scheme based on Microwave Metamaterials

C. M. Wu, Wayne State University, Detroit, United States

EuRAD/EuMC Poster01-03 Phase Noise Analysis in FMCW Radar Systems

K. Siddiq[1], R. J. Watson[1], S. R. Pennock[1], P. Avery[2], R. Poulton[2], B. D. Norris[2], [1]University of Bath, Bath, United Kingdom, [2]yNavtech Radar Ltd., Ardington, Wantage, United Kingdom

EuRAD/EuMC Poster01-04 Performance Evaluation of Passive Secondary Surveillance Radar for Small Aircraft Surveillance

T. Otsuyama[1], J. Honda[1], K. Shiomi[1], G. Minorikawa[2], Y. Hamanaka[2], [1]Electronic Navigation Research Institute, Chofu, Japan, [2]Hosei University, Tokyo, Japan

EuRAD/EuMC Poster01-05 FMCW Ramp Non-Linearity Modeling and Measurement Technique for Cooperative Radar

A. Frischen[1], J. Hasch[1], C. Waldschmidt[2], [1]Robert Bosch GmbH, Stuttgart, Germany, [2]Ulm University, Ulm, Germany

Hall Ternes - Level 1

EuRAD/EuMC Poster01-06 Zero-IF Radar Signal Processing

S. Turso, T. Bertuch, Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, Wachtberg, Germany

EuRAD/EuMC Poster01-07 cuDeformer - Software for Reversing Radar Signal Processing, Based on CUDA Technology

J. M. Gambrych, Warsaw University of Technology, Warsaw, Poland

EuRAD/EuMC Poster01-08 Analysis of Circular Polarization of the Quadrifilar Helix Antenna in the Presence of Ground Plane for LEO Satellites

M. Ahmad[1], M. Amin[2], A. A. Khan[1], M. T. Azim[3], [1]COMSATS Institute of Information Technology, Lahore, Pakistan, [2]Institute of Space Technology, Islamabad, Pakistan, [3]Satellite Research and Development Center, Lahore, Pakistan

EuRAD/EuMC Poster01-09 Comparison Study of Scalar and Vector Calibrations for Wideband Modulation Signals

S. Lin[1], D. Chang[1], Y. Juang[1], H. Chiou[2], [1]National Chip Implementation Center,NARL, Hsinchu, Taiwan, [2]National Central University, Jhongli, Taiwan

Hall Ternes - Level 1

EuRAD/EuMC Poster01-10 A Low-Cost IEEE802.11ad Wireless Network Appliance Test System with Mixed Domain Oscilloscope and Down Converter

K. Fujiwara[1], T. Kobayashi[1], J. Ukita[2], Y. Honjo[2], [1]Tokyo Metropolitan Industrial Technology Research Institute, Koto-ku, Japan, [2]CANDOX Systems Inc., Gyoda-city, Japan

EuRAD/EuMC Poster01-11 Method of Multi-Channel Calibration for Digital Array Radar

W. Li, J. Lin, Y. Zhang, J. Yang, Z. Chen, National University of Defense Technology, Changsha, China

EuRAD/EuMC Poster01-12 Wideband Vivaldi Antennas Array with Mechanical Support and Protection Radome for Land-Mine Detection Radar

T. N. Nguyen[1], G. Clementi[1], C. Migliaccio[1], N. Fortino[1], J. Dauvignac[1], J. Willebois[2], C. Chekroun[2], [1]LEAT - CNRS - University Nice Sophia Antipolis, Sophia Antipolis, France, [2]BOWEN, Saclay, France

EuRAD/EuMC Poster02 Session

Chair: Laurent Ferro-Famil, University of Rennes 1

Co-Chair: Michèle Lalande, University of Limoges

12:30h - 14:10h

The posters are on display from 12:30h - 14:10h
The authors are present for discussion from 12:30h - 14:10h

Hall Ternes - Level 1

EuRAD/EuMC Poster02-01 Statistical Properties of the Polarization Ratio for Radar Returns with Deterministic Polarized Targets in Clutter

B. Ren[1], L. Shi[1], Y. Chang[2], S. Xiao[1], G. Wang[1], [1]National University of Defense Technology, Changsha, China, [2]National University of Defense Technology, Changsha, China

EuRAD/EuMC Poster02-02 The Study of Microwave Scattering of Anisotropic Sea Surface with the Corrected Two-Scale Model

D. Song, S. Shang, X. Luo, National Key Laboratory of Science and Technology on space Microwave, Xi'an, China

EuRAD/EuMC Poster02-03 An Analytical Method to Compute Track Continuity Performance Measures

J. S. Wijnhout, Thales Nederland, Hengelo, Netherlands

EuRAD/EuMC Poster02-04 Target Detection using Space-Time Adaptive Processing (STAP) and a Multi-Band, Multi-Channel Software Defined Passive Radar

M. Alam[1], K. Jamil[2], S. M. Alhumaidi[2], [1]King Saud University, Riyadh, Saudi Arabia, [2]King Saud University, Riyadh, Saudi Arabia

Hall Ternes - Level 1

EuRAD/EuMC Poster02-05 High-Performance Autofocusing for Light-Weight SAR Platforms

I. M. Gorovyi, O. O. Bezvesilniy, D. M. Vavriv, Institute of Radio Astronomy, Kharkiv, Ukraine

EuRAD/EuMC Poster02-06 Real Time Classification of Targets Using Waveforms in Resonance Scattering Region

A. Selver[1], M. Secmen[2], Y. Zoral[1], [1]Dokuz Eylul University, Izmir, Turkey, [2]Yasar University, Izmir, Turkey

EuRAD/EuMC Poster02-07 Integrated FFT Accelerator and Inline Bin-Rejection for Automotive FMCW Radar Signal Processing

D. T. Nugraha, A. Roger, R. Ygnace, Infineon Technologies A.G., Neubiberg, Germany

EuRAD/EuMC Poster02-08 Fast Analysis of Luneburg Lens Radiation by Green's Function Method

B. Panchenko[1], S. Shabunin[1], D. Denisov[2], [1]Ural Federal University, Ekaterinburg, Russian Federation, [2]Ural Technical Institute of Communications and Computer Sciences, Ekaterinburg, Russian Federation

Hall Ternes - Level 1

EuRAD/EuMC Poster02-09 SNR in Active Receiving Antenna Used as an Element of Phased Antenna Array for the GURT Radio Telescope

P. L. Tokarsky, A. A. Konovalenko, I. S. Falkovich, S. N. Yerin, Institute of Radio Astronomy, National Academy of Sciences of Ukraine, Kharkiv, Ukraine

EuRAD/EuMC Poster02-10 Omnidirectional Cylindrical Microstrip Antennas with Horizontally-Polarized Radiation

A. Y. Svezhentsev[1], S. Yan[2], V. Volski [2], G. A. Vandenbosch[2], [1]IRE of NASU, Kharkiv, Ukraine, [2]Katholieke Universiteit Leuven, Leuven, Belgium

EuRAD/EuMC Poster02-11 Uniplanar Log-Periodic Antenna with a Perpendicular Plane Reflector Dedicated to a Radio Wave Camera System

F. Ouasli, J. Coupez, P. Pajusco, C. Person, Télécom Bretagne, Brest, France

EuRAD/EuMC Poster02-12 Measurement of Point-of-Impact Based on Microwave DMCW Radar and Kalman Filtration

P. Hudec[1], P. Pánek[2], F. Kozák[1], [1]Czech Technical University in Prague, Prague, Czech Republic, [2]Academy of Sciences of the Czech Republic, Prague, Czech Republic

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241

EuMC51
Tunable Components for Signal Processing and Detection

Chair: Pierre Blondy, University of Limoges
Co-Chair: Fabio Coccetti, CNRS-LAAS

13:50h - 14:10h

EuMC51-01
Modeling Antennas Printed on Magnetized Substrate: Application to the Design of a Tunable PIFA Antenna
J. Cortes[1,2], P. Quéffelec[1,2], A. Chevalier[1,2], G. Verissimo[1,2], J. Mattei[1,2], [1]Université de Bretagne Occidentale, Brest, France, [2]Universite Europenne de Bretagne, Brest, France

14:10h - 14:30h

EuMC51-02
Double-Actuation Extended Tuning Range RF MEMS Varactor
A. Cazzorla[1], R. Sorrentino[1], P. Farinelli[2], [1]University of Perugia, Perugia, Italy, [2]R.F. Microtech, Perugia, Italy

14:30h - 14:50h

EuMC51-03
Discrete RF-Power MIM BST Thick-Film Varactors
S. Preis[1], A. Wiens[2], D. Kienemund[2], D. Kendig[3], H. Maune[2], R. Jakoby[2], W. Heinrich[1], O. Bengtsson[1], [1]Ferdinand-Braun-Institut Leibniz-Institut fuer Hoechstfrequenztechnik, Berlin, Germany, [2]Technische Universität Darmstadt, Darmstadt, Germany, [3]Microsanj LLC, Santa Clara, United States

14:50h - 15:10h

EuMC51-04
Bistable RF Switches Using Ge2Sb2Te5 Phase Change Material
A. Mennai, A. Bessaudou, F. Cosset, C. Guines, P. Blondy, A. Crunteanu, XLIM UMR 7252 CNRS/Université de Limoges, 123 Av. Albert Thomas, France

15:10h - 15:30h

EuMC51-05
Un-cooled Resonant IR Detectors Based on Barium Strontium Titanate Switchable FBARs
M. Zolfagharloo Koohi, S. Lee, V. Lee, S. A. Sis, A. Mortazawi, The University of Michigan, Ann Arbor, United States

243

EuMC52
Special Session on Autonomous Driving in a Worldwilde Changing Society – Between Silver Agers and Y-Generation

Chair: Holger H. Meinel,
Co-Chair: Bela Peterson, Consulting4drive

EuMC52-01
Market growth potential for Autonomous Driving, differentiated by the analysis of silver agers vs. Y-Generation
Dominique Bonte, ABI Research, Brussels, Belgium

EuMC52-02
Is the Y-Generation phenomenon typical for western societies? A view from India
Roland Haas, QSO Technologies India Pvt. Ltd., Bangalore, India

EuMC52-03
Are cars and high tech features like Autonomous Driving important to the Y-Generation?
Katharina Kilian-Yasin, University of Pforzheim, Germany

EuMC52-04
Use and benefit of Multi-Purpose Maps. Qui bono?
Heiko Seif, Munich Business School, München, Germany

EuMC52-05
One world - one innovation? How much customizing for HMI-applications is neccessary?
Bela Peterson, consulting4drive, Berlin, Germany

252A

EuMC53
Special Session: System Model and Optimization

Chair: Jacques Sombrin, Labex SigmaLim
Co-Chair: Fabien Seyfert, INRIA

13:50h - 14:20h

EuMC53-01
Microwave Filters and MUX Modelling, Optimization and Tuning
Fabien Seyfert, INRIA, Nice Sophia-Antipolis

14:20h - 14:50h

EuMC53-02
Protection against high power phenomena (multipactor, corona, passive intermodulation products)
Jérome Puech, CNES, Toulouse

14:50h - 15:30h

EuMC53-03
Consumption, capacity and cost global optimization of systems
Jacques Sombrin, Labex SigmaLim, Limoges

242B	251	212+213	253	
EuRAD08 **MIMO Radars** Chair: Krzysztof Kulpa, Warsaw University of Technology Co-Chair: Gaspare Galati, Tor Vergata University	**EuRAD09** **Special Session Advances on T/R Modules for AESA applications** Chair: Patrick Schuh, Airbus Defence and Space Co-Chair: Yves Mancuso, Thales	**EuRAD10** **Radar measurements** Chair: Fabrizio Berizzi, University of Pisa Co-Chair: Alexander Yarovoy, Delft University of Technology	**EuMC/EuRAD10** **Antennas for Ka-band Applications** Chair: Arne Jacob, Technical University of Hamburg Co-Chair: Erwan Fourn, INSA Rennes	
EuRAD08-01 ***Simple OFDM-Based MIMO Radar for Real-Time Short-Range Area Surveillance*** Y. Sit[1], B. Sobhani[2], W. Wiesbeck[1], T. Zwick[1], [1]Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, [2]University of Bologna, Bologna, Italy	***EuRAD09-01*** ***Highly Integrated TR Modules: Components, Packaging & Interconnect for "Tile" Antennas*** D. M. Craig, A. M. Kinghorn, A. D. McLachlan, G. D. Morrison, Selex ES	***EuRAD10-01*** ***Turbulence Intensity Estimation Using Advanced Radar Methods*** F. J. Yanovsky[1], A. C. Oude Nijhuis[2], O. A. Krasnov[2], C. M. Unal[2], H. W. Russchenberg[2], A. G. Yarovoy[2], [1]National Aviation University of Ukraine, Kiev, Ukraine, [2]Delft University of Technology, Delft, Netherlands	***EuMC/EuRAD10-01*** ***A Dual-Frequency and Dual-Polarized Patch Antenna at Ka-Band*** B. Rohrdantz, T. Jaschke, F. K. Gellersen, A. F. Jacob, Techn. Univ. Hamburg-Harburg, Hamburg, Germany	13:50h - 14:10h
EuRAD08-02 ***MIMO Noise Radar with Signals Time-Division in Receive Channels*** K. A. Lukin, P. L. Vyplavin, V. P. Palamarchuk, S. K. Lukin, P. M. Sushenko, N. K. Zaets, Usikov Institute for Radiophysics and Electronics NAS of Ukraine, Kharkov, Ukraine	***EuRAD09-02*** ***Distributing Phased-Array Transmitters*** F.E. van Vliet, TNO, University of Twente, The Netherlands. E.A.M. Klumperink, A.J. Annema, M.C.M. Soer, J. Velner, J.C.J.G.M. Withagen, B. Nauta, University of Twente, The Netherlands	***EuRAD10-02*** ***Eddy Dissipation Rate (EDR) Retrieval with Ultra-Fast High Range Resolution Electronic-Scanning X-band Airport Radar*** F. Barbaresco[1], [1]Thales Air Systems, Limours, France	***EuMC/EuRAD10-02*** ***Design and Investigation of Meshed Patch Antennas for Applications at 24 GHz*** Q. H. Dao, R. Braun, B. Geck, Leibniz Universität Hannover, Hannover, Germany	14:10h - 14:30h
EuRAD08-03 ***High-Performance MIMO Imaging RADAR with Hybrid Receiver Array*** N. M. Pham, A. F. Jacob, Hamburg University of Technology, Hamburg, Germany	***EuRAD09-03*** ***Evolutions of T/R Modules for Ground Base Radar Applications*** Philippe Eudeline, Thales Air Systems, France	***EuRAD10-03*** ***Parked Vehicle Detection and Status Evaluation on X-band Spotlight-Mode SAR Interferometry*** T. Hoshino, K. Suwa, N. Oishi, T. Wakayama, T. Hara, Mitsubishi Electric Corporation, Kamakura-shi, Japan	***EuMC/EuRAD10-03*** ***SIW Multilayer Rotman Lens Antenna in the 24-GHz Band*** K. Tekkouk, M. Ettorre, R. Sauleau, Institut d'Electronique et de Télécommunications de Rennes-Université de Rennes 1, Rennes, France	14:30h - 14:50h
EuRAD08-04 ***Topology Optimization of Monostatic Radar Networks with Wide-beam Antennas*** I. M. Ivashko, O. A. Krasnov, A. G. Yarovoy, Delft University of Technology, Delft, Netherlands	***EuRAD09-04*** ***New T/R Module Architectures using SiGe and GaN Technologies*** Patrick Schuh, Ralf Rieger and Martin Oppermann, Airbus Defence and Space	***EuRAD10-04*** ***3D-SAR Measurements Using a Sparse and Compact Array Antenna Architecture*** A. B. Gustafsson, P. Frölind, P. Andersson, J. Svedin, S. Leijon, FOI, Swedish Defence Research Agency, Linköping, Sweden	***EuMC/EuRAD10-04*** ***A Wideband Planar Array Antenna for Ka-Band Wireless Communication Applications*** J. Wu, Y. Cheng, Y. Fan, Fundamental Science on Extreme High Frequency Laboratory, Chengdu, China	14:50h - 15:10h
EuRAD08-05 ***On Signal Detection With Mainlobe Interference Cancellation in Multisite Radar Systems and MIMO Radars*** V. Chernyak[1], [1]Moscow State Aviation Institute, Bauman Moscow State Technical University, Moscow, Russian Federation	***EuRAD09-05*** ***New generations of T/R modules for tile antennas*** Yves Mancuso, Thales, France	***EuRAD10-05*** ***Processing Chain of a Radar Network for Safety Improvement in the Usage of Heavy Machinery*** F. León-Infante, J. González-Partida, R. Blázquez-García, M. Burgos-García, Universidad Politécnica de Madrid, Madrid, Spain	***EuMC/EuRAD10-05*** ***Conformal K Band Array Performance Prediction Based on Improved Element Modeling*** G. Nelson[1], P. Kumar[2], G. R. Branner[1], [1]University of California, Davis, United States, [2]Sacramento State University, Sacramento, United States	15:10h - 15:30h

Maillot

EuMW02
EuMW/EuMC Closing Session

Chair: Hervé Aubert, EuMW 2015 General Chair
Co-Chair: Denis Barataud, EuMC 2015 TPC Chair

16:10h - 17:50h

16:10h - 16:50h

Philae, are you talking to me?

Clément Dudal, French Space Agency, France
Céline Loisel, French Space Agency, France

After 10 years of cruise, the ESA/CNES/DLR Rosetta mission reached successfully the 67P Churyumov-Gerasimenko comet. One of its main assignments was to carry out in-situ analysis using Philae, a small lander of about 100 kg equipped with scientific instruments. To communicate, Philae uses a radiofrequency relay link with Rosetta in S-band transmitted through small patch antennas. After separation, it was the only means of communication providing valued information on the lander behavior especially relevant during the rebound landing. After 3 days of successful on-comet scientific activities, Philae had to turn off because of energy shortage. After a broad presentation of the mission, this presentation will focus on the RF subsystem and the role it played in the success of the mission.

16:50h - 17:20h

Awards Ceremony

Chair: Christian Person, EuMW 2015 Awards Chair

EuMC Microwave Prize
EuMC Young Engineer Prizes
Student Challenge Prize
Student Design Competition Prizes

17:20h - 17:40h

Closing of European Microwave Conference 2015

Denis Barataud, EuMC 2015 TPC Chair

Closing of European Microwave Week 2015

Hervé Aubert, EuMW 2015 Chair

Closing Address

Wolfgang Heinrich, Eu*M*A President

Invitation to the European Microwave Week 2016

Andrew Gibson, EuMW 2016 General Chair

EuRAD 2015

242B

EuRAD11

High Resolution and Compressive Sensing Radar Techniques

Chair: Pierfrancesco Lombardo, University of Rome La Sapienza
Co-Chair: Le Chevalier Francois, Delft University of Technology

EuRAD11-01
Unification of Compressed Imaging Techniques in the Microwave Range and Deconvolution Strategy
T. Fromenteze, E. L. Kpré, C. Decroze, D. Carsenat, Xlim research institute - University of Limoges, Limoges, France

16:10h - 16:30h

EuRAD11-02
Fast Implementation of Sparse Reconstruction for CS-based DoA Estimation
M. Gocho, Y. Takahashi, A. Ozaki, Mitsubishi Electric Corporation, Kamakura, Japan

16:30h - 16:50h

EuRAD11-03
Passive UWB Beamforming: a N to M Compression Study
T. Fromenteze, E. Kpré, C. Decroze, D. Carsenat, Xlim research institute - University of Limoges, Limoges, France

16:50h - 17:10h

EuRAD11-04
A Real-Time Unfocused SAR Processor Based on a Portable CUDA GPU
K. Radecki, P. Samczynski, K. Kulpa, J. Drozdowicz, Warsaw University of Technology, Warsaw, Poland

17:10h - 17:30h

EuRAD11-05
New Pre-Estimation Algorithm for FMCW Radar Systems using the Matrix Pencil Method
S. Olbrich[1], C. Waldschmidt[2], [1]Robert Bosch GmbH, Leonberg, Germany, [2]University of Ulm, Ulm, Germany

17:30h - 17:50h