2013 European Radar Conference

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Chair: Marco Martorella, University of Pisa — Co-Chair: Jens Klare, Fraunhofer FHR
Venue Stockholm, Time 08:30 – 10:10, Thursday 10th October 2013

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[1] Télécom ParisTech, France; [2] AllianSTIC, France

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Venue St. Petersburg, Time 10:40 – 12:20, Thursday 10th October 2013

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[1] EADS Innovation Works, Germany; [2] Cassidian, Germany; [3] Technische Universität München, Germany

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[1] McMaster University, Canada; [2] Technische Universität München, Germany; [3] Defence Research & Development Canada, Canada

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Chair: Michael Schlechtweg, Fraunhofer IAF — Co-Chair: Jean-Yves Dauvignac, University of Nice - Sophia Antipolis
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[1] Politecnico di Bari, Italy; [2] Technische Universiteit Delft, The Netherlands

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[1] Sakura Tech Corporation, Japan; [2] RF-Chips Technology Inc., Japan

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[1] Università di Firenze, Italy; [2] Glass Service s.r.l., Italy

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[1] Ohio State University, USA; [2] AFRL, USA

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[1] FAU Erlangen-Nürnberg, Germany; [2] Siemens AG, Germany

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[1] Tampere University of Technology, Finland; [2] Thales Nederland B.V., The Netherlands; [3] TNO, The Netherlands

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[1] Robert Bosch GmbH, Germany; [2] FAU Erlangen-Nürnberg, Germany

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[1] Michigan Technological University, USA; [2] TEMA, USA

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Chair: Wolfgang-Martin Boerner, University of Illinois at Chicago
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[1] CNIT, Italy; [2] Università di Firenze, Italy

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[1] Diehl BGT Defence, Germany; [2] FAU Erlangen-Nürnberg, Germany

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[1] UNICAMP, Brazil; [2] UFC, Brazil; [3] UFBA, Brazil; [4] USP, Brazil

EuMC/EuRAD02 : Advances in Six-Port Technology

Chair: Alexander Kölpin, University of Erlangen-Nürnberg
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[1] InnoSenT GmbH, Germany; [2] FAU Erlangen-Nürnberg, Germany

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[1] Universität Duisburg-Essen, Germany; [2] Kyoto University, Japan; [3] Technische Universiteit Delft, The Netherlands

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Chair: Jean-Yves Dauvignac, University of Nice-Sophia Antipolis — Co-Chair: Heinz-Peter Feldle, Cassidian
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EuMC/EuRAD06 : Dielectric and Lens Antennas

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EuMC/EuRAD07 : Antenna Arrays for Radar and Radiometry

Chair: Peter Knott, Fraunhofer FHR — Co-Chair: Bianca Will, Ruhr-Universität Bochum
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EuRAD/EuMC Poster01 : EuRAD/EuMC Poster Session

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399 **A Novel Cheeseholes Type Hemispherical Dielectric Resonator Antenna for Wireless Applications**
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403 **Four-Arm 2nd-Mode Conical Spiral Antenna Feeding with Split Tapered Coax Balun**
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407 **Spiral Antenna with Parasitic Radiating Elements**
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411 **Parametric and Dispersion Analysis of a Dual-Pol Cavity-Backed Slot-Fed UWB Patch Antenna**
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415 **Ultra-Wideband Signals Radiation by Linear Arrays of Aperture Stacked Patch Antennas**
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419 **Circularly Polarized Dipole-Loop Antenna**
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423 **Ultra Wide Band Low-Power Amplifier Integrated on Miniaturized Antenna for Biomedical Applications**
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427 **Size-Reduction and Suppression of Cavity-Resonances in Hybrid mm-Wave Antennas for Polarimetric Measurements**
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431 **Analysis and Optimization of a Focusing Metal-Dielectric Probe for Near-Field Terahertz Imaging**
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435 **Fabrication Techniques for Wearable Antennas**
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439 **Slot Dual Dipole Antenna with Miniature Elliptical Substrate Lenses for Millimeter-Wave Imaging**
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443 **Phase-Only Pattern Synthesis Using a Modified Least Squares Method for Phased Arrays**
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447 **A Novel Detection Algorithm of LFM Signal Based on Cubic Phase Function**
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451 **Long-Time Integration by Short-Time Cross-Correlation and Two-Step Doppler Processing for Passive Bistatic Radar**
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455 **Experimental Result of Passive Bistatic Radar with Unknown Transmitting Radar Pulse**
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459 **Performance Analysis of Multisite Radar Systems**
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463 **Mission-Driven System Design During Runtime for Reconfigurable Radars and Antennas**
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467 **LFMCW Based MIMO Imaging Processing with Keystone Transform**
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471 **Indoor Radar SLAM: A Radar Application for Vision and GPS Denied Environments**
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475 **Through-the-Wall Moving Target Surveillance Using GPR**
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479 **Unified Radar-Communication (RadCom) Multi-Port Interferometer Transceiver**
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483 **Joint Polarization for Micro-Doppler Signature Enhancement**
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491 **Almost Perfect Auto-Correlation Sequences for Binary Phase-Modulated Continuous Wave Radar**
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495 **Optimal Peak Sidelobe Level Sequences up to Length 74**
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499 **Sensor Selection Algorithm for Optimal Management of the Tracking Capability in Multisensor Radar System**
Alexey S. Narykov, Alexander G. Yarovoy, Technische Universiteit Delft, The Netherlands

503 **Enhancement of Stepped-Frequency SAR Imaging Based on Compressive Sensing**
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507 **Estimation of Trihedral Pose Angle from Virtual Aperture Radar Image**
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511 **SINR Rank Ordering Metric for Signal Dependent Sub-Optimum STAP**
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515 **Support Vector Machine Based Micro-Doppler Signature Classification of Ground Targets**
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519 **Radar Cross-Section Model of the Sea in the Centimeter and Millimeter Waves at Small Grazing Angles**
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523 **Multi-Sensor Surveillance Radar Based on MISO Sensors and Kalman Filtration**
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527 **A Comparison of Beamforming Methods for Microwave Breast Cancer Detection in Homogeneous and Heterogeneous Tissue**
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531 **Radar Subsurface Imaging by Phase Shift Migration Algorithm**
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535 **Advanced Ground Penetrating Radar: Open Issues and New Research Opportunities in Europe**
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543 **Investigation of MW Imaging Capabilities for the Estimation of Truckload**
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547 **Measurement of Rain Parameters by Active-Passive Remote Sensing**
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551 **Automatic Radar Horizontal Alignment Scheme Using Stationary Target on Public Road**
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555 **Scattering Characteristics of Atmospheric Pressure Dielectric Barrier Discharge Plasma**
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