

2024 21st European Radar Conference (EuRAD 2024)

**Paris, France
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EuMC/EuRAD02 EuMC/EuRAD Poster

EuRAD01 : EuRAD Opening Session

Chair: *Guido Valerio, Sorbonne Université, France*

Co-Chair: *Kamel Haddadi, IEMN (UMR 8520), France*

08:30-10:10, Wednesday 25th September 2024, N01

- (NA) **Welcome Address: Opening of the European Radar Conference 2024**
Guido Valerio, EuRAD 2024 Chair
- (NA) **Applications of Microwaves from Nano to Macro: Nano-Radar to Drone Long Range**
Peter Burke, University of California Irvine, USA
- (NA) **Synthetic Aperture Radar (SAR) Missions in Development at the European Space Agency (ESA): Overview, Status and Applications**
Björn Rommen, ESA-ESTEC, The Netherlands

EuRAD02 : Advanced Radar System Techniques

Chair: *Stephen Harman, Thales, UK*

Co-Chair: *Benjamin Nuss, KIT, Germany*

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- 7 **Analytic Formulation of Phase Noise Reduction in Quasi-Coherent Multi-Channel Array Radar Systems**
Stefan Peschl, Jan Schorer, Hensoldt Sensors, Germany
- 11 **Validation of Synthetic Radar Point Clouds Based on Their Measured Spatial Fluctuations**
Philip Aust¹, Florian Hau¹, Jürgen Dickmann¹, Matthias A. Hein²
¹Mercedes-Benz, Germany; ²Technische Universität Ilmenau, Germany
- 15 **Radar Cross Section Estimation Using the Variational Quantum Linear Solver Algorithm**
Thibaut Pellerin¹, Robin van Gaalen², Ronny I.A. Harmanny²
¹Université Paris-Saclay, France; ²Thales, The Netherlands
- 19 **Quasi-Monostatic Radar Cross-Section Measurement of a Complex Target in a VIRC**
Youssef Rammal¹, Guillaume Andrieu¹, Nicolas Ticaud², Nicolas Roger³, Alexandre Laisné⁴, Philippe Pouliguen⁴
¹XLIM (UMR 7252), France; ²CISTEME, France; ³Jacques Dubois, France; ⁴DGA, France

EuRAD03: AI for Automotive Radar Processing

Chair: Francesco Fioranelli, Technische Universiteit Delft, The Netherlands

Co-Chair: Kostas Doris, NXP Semiconductors, The Netherlands

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Mato Gudelj¹, Michael Meyer², Sven Tomforde³, Johannes Betz¹
¹Technische Universität München, Germany; ²Cruise Munich, Germany; ³CAU, Germany
- 27 **Score-Based Generative Modeling for Interference Mitigation in Automotive FMCW Radar**
Xinyi Wei¹, Jeroen Overdeest², Jun Li³, Jihwan Youn³, Satish Ravindran³, Ruud J.G. van Sloun¹
¹Technische Universiteit Eindhoven, The Netherlands; ²NXP Semiconductors, The Netherlands; ³NXP Semiconductors, USA
- 31 **Deep Unfolding for Sparse Distance Recovery in PMCW MIMO Automotive Radar**
Jeroen Overdeest¹, Jiaqi Ji¹, Arie G.C. Koppelaar¹, Ashish Pandharipande¹, Harm J.W. Belt², Ruud J.G. van Sloun²
¹NXP Semiconductors, The Netherlands; ²Technische Universiteit Eindhoven, The Netherlands
- 35 **Classification of Tracked Objects Using Multiple Frame Processing for Automotive Radar**
Mujtaba Hassan¹, Francesco Fioranelli¹, Alexander Yarovoy¹, Lihui Chen², Satish Ravindran², Ryan Wu²
¹Technische Universiteit Delft, The Netherlands; ²NXP Semiconductors, USA
- 39 **Optimizing PointNet++ and DBSCAN for Object Detection in Automotive Radar Point Clouds**
Konstantinos Fatseas¹, Marco J.G. Bekooij¹, Willem P. Sanberg²
¹University of Twente, The Netherlands; ²NXP Semiconductors, The Netherlands

EuRAD04: Implementation and Calibration of Radar Systems

Chair: Marlene Harter, Hochschule Offenburg, Germany

Co-Chair: Piotr Samczyński, Warsaw University of Technology, Poland

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Souhail El Maqri¹, Michèle Lalande², Rémi Baqué¹, Romain Négrier², Vincent Couderc²
¹ONERA, France; ²XLIM (UMR 7252), France
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Aaron D. Pitcher, Mihail Georgiev, Natalia K. Nikolova, McMaster University, Canada
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- 55 **USRP Based Implementation of Interference Immune PMCW Radars with Low Sampling Rate ADCs**
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- 59 **A New Square Cylindrical Dihedral Reflector for Fully Polarimetric Radar Calibration**
Tianjin Liu¹, Zhen Wu², Xiaojian Xu¹
¹Beihang University, China; ²Shanghai Radio Equipment Research Institute, China

EuRAD05: Waveforms and Joint Radar and Communication

Chair: Pierfrancesco Lombardo, Università di Roma "La Sapienza", Italy

Co-Chair: Nils Pohl, Ruhr-Universität Bochum, Germany

08:30–10:10, Thursday 26th September 2024, E07

- 63 **Experimental Validation of NU-OTFS MIMO Radar Through Polarimetric Measurements**
Aitor Correias-Serrano¹, Nikita Petrov², Maria A. Gonzalez-Huici¹, Alexander Yarovoy³
¹Fraunhofer FHR, Germany; ²NXP Semiconductors, The Netherlands; ³Technische Universiteit Delft, The Netherlands
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Hasan Can Yildirim¹, Laurent Storrer¹, Martin Willame², Jérôme Louveaux², François Horlin¹
¹Université Libre de Bruxelles, Belgium; ²UCLouvain, Belgium
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- 75 **Heart Signal Sensing Using Millimeter-Wave OFDM Waveform in FutureG Communications Systems**
Khaldoon Ishmael¹, Euodia Lan², Richard Ordonez¹, Yao Zheng³, Victor M. Lubecke³, Olga Borić-Lubecke³
¹NIWC Pacific, USA; ²Iolani School, USA; ³UH Mānoa, USA
- 79 **Doppler-Robust High-Accuracy Range Estimation for FC-FMCW Radar**
Theresa Antes, Zsolt Kollár, Thomas Zwick, Benjamin Nuss, KIT, Germany

EuRAD06: Millimetre-Wave and THz Radar Architectures and Systems

Chair: Cyril Decroze, XLIM (UMR 7252), France

Co-Chair: Duncan A. Robertson, University of St Andrews, UK

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Rossen Michev¹, Juergen Hasch¹, Carsten Naber¹, David Werbunat², Nora Hepp³, Christian Waldschmidt²
¹Robert Bosch, Germany; ²Universität Ulm, Germany; ³Hochschule Karlsruhe, Germany
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Changxu Zhao¹, Alejandro Garcia-Tejero², Wietse Bouwmeester¹, Yanki Aslan¹, Oleg Krasnov¹, Alexander Yarovoy¹
¹Technische Universiteit Delft, The Netherlands; ²HUBER+SUHNER, Switzerland
- 91 **Radar Cross Sections of Flotsam at Sub-THz Frequencies**
Andy Stove¹, Aleksanteri Vattulainen², Dillon Kumar¹, Samuel Harris¹, Edward Hoare¹, A. Pirkani¹, Samiur Rahman², Duncan Robertson², Marina Gashinova¹
¹University of Birmingham, UK; ²University of St Andrews, UK
- 95 **A Novel Frequency-Sweeping Scanning Notch Beam Radar at 238–248GHz**
Mohammad-Reza Seidi, Armin Karimi, Joachim Oberhammer, KTH, Sweden
- 99 **Compact Ultra-Broadband Terahertz Radar-Based 3D Imaging System**
Shiva Mohammadzadeh, Dominik Gundacker, Raphael Hussung, Andread Keil, Fabian Friederich, Fraunhofer ITWM, Germany

EuRAD07: Detection, Beam-Forming and Interference Mitigation

Chair: Mayazzurra Ruggiano, Thales, The Netherlands

Co-Chair: Alexander G. Yarovoy, Technische Universiteit Delft, The Netherlands

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- 107 **Backprojection Approach for Person-Detection with Two Non-Coherent MIMO Radars on a UAV**
Philipp Stockel¹, Patrick Wallrath¹, Gunnar Briese¹, Sandra Nowok¹, Reinhold Herschel², Nils Pohl¹
¹Fraunhofer FHR, Germany; ²BIT Technology Solutions, Germany
- 111 **Design of a Fixed Aperture 2D Sparse Radar Array**
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- 115 **Interference Mitigation Evaluation Methodology for Automotive Radar**
Jihwan Youn¹, Jun Li², Ryan Wu², Jeroen Overdeest¹
¹NXP Semiconductors, The Netherlands; ²NXP Semiconductors, USA
- 119 **Evaluation and Mitigation of Transmit-Waveform-Shaped Noise Interference on STAP Radar Detection Performance**
W.K. Isaac Lee, Ric A. Romero, Naval Postgraduate School, USA

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Chair: Kamel Haddadi, IEMN (UMR 8520), France

Co-Chair: Holger Maune, OVG Universität Magdeburg, Germany

13:50-15:30, Thursday 26th September 2024, E02

- (NA) **Challenges in Radar-Based Motorbike Detection (Industrial Keynote)**
Florian Baumgaertner, CARIAD, Germany
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Felix Yanovsky¹, Alexander Pitertsev², Christine Unal¹, Herman Russchenberg¹
¹Technische Universiteit Delft, The Netherlands; ²National Aviation University, Ukraine

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Chair: Laurent Ferro-Famil, ISAE-SUPAERO, France

Co-Chair: Peter J. Burke, University of California, Irvine, USA

13:50-15:30, Thursday 26th September 2024, E04

- (NA) **Robotics Safety Enabled by mmWave Radar MMIC (Industrial Keynote)**
G. Peake¹, M. Chevrier²
¹Texas Instruments, UK; ²Texas Instruments, Germany
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¹General Atomics, USA; ²PPPL, USA; ³Palomar Scientific Instruments, USA; ⁴ITER, France

EuRAD10: AI-Based Object Classification and Imaging

Chair: Ingrid Ullmann, FAU Erlangen-Nürnberg, Germany

Co-Chair: Jean-Yves Dauvignac, Université Côte d'Azur, France

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Sarah Seifi¹, Tobias Sukianto², Cecilia Carbonelli², Lorenzo Servadei¹, Robert Wille¹
¹Technische Universität München, Germany; ²Infineon Technologies, Germany
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S. Hamed Javadi, Lars Keuninckx, Hans Cappelle, Thomas Gielen, imec, Belgium
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¹Technische Universität Braunschweig, Germany; ²Infineon Technologies, Germany
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¹Infineon Technologies, Germany; ²Johannes Kepler Universität Linz, Austria
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Miriam C. Senne, Cyrille Maire, Marius Brinkmann, Christoph Baur, Rohde & Schwarz, Germany

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Chair: *Jacco J.M. de Wit, TNO, The Netherlands*

Co-Chair: *Marina S. Gashinova, University of Birmingham, UK*

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E. Dedic¹, Dominique Henry², M. Lihoreau³, Hervé Aubert¹
¹LAAS-CNRS, France; ²Ovalie Innovation, France; ³CRCA (UMR 5169), France
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Wogong Zhang¹, Andras Palffy², Srimannarayana Baratam², Balazs Szekeres², Nannan Li³, Erich Kasper⁴
¹Chuhang Technology, Germany; ²Perciv, The Netherlands; ³Nanjing Chuhang Technology, China; ⁴Universität Stuttgart, Germany
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Jasmin Gabsteiger¹, Thomas Kurin², Christian Dorn³, Alexander Koelpin⁴, Fabian Lurz²
¹FAU Erlangen-Nürnberg, Germany; ²OvG Universität Magdeburg, Germany; ³Technische Universität München, Germany; ⁴Technische Universität Hamburg, Germany

EuRAD12: Automotive Radar System Simulation and Signal Processing Concepts

Chair: *Alexander Kölpin, Technische Universität Hamburg, Germany*

Co-Chair: *Fabian Lurz, OvG Universität Magdeburg, Germany*

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¹HELLA, Germany; ²Fachhochschule Dortmund, Germany; ³BTU, Germany
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Adrien Grivey¹, Kevin Cinglant², Fabrice Comblet¹, Ali Khenchaf¹
¹Lab-STICC (UMR 6285), France; ²ZF Autocruise, France
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¹Johannes Kepler Universität Linz, Austria; ²Infineon Technologies, Austria
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Maxim Bulygin¹, Anna Dzvonkovskaya¹, Boya Qin²
¹Huawei Technologies, Russia; ²Huawei Technologies, China

EuRAD13: EuRAD Poster: Radar Techniques & Signal Processing

Chair: Guillaume Neveux, XLIM (UMR 7252), France

16:10-17:50, Thursday 26th September 2024, Exhibition Hall

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¹ADD, Korea; ²Hanwha Systems, Korea
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- 228 **Non-Destructive Testing Using Filtered Backprojection Tomography with Focusing Lens Antennas in the W- and D-Band**
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¹Scuola Superiore Sant'Anna, Italy; ²CNR-IEIT, Italy; ³CNIT, Italy
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¹DLR, Germany; ²KIT, Germany
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¹NXP Semiconductors, France; ²IMS (UMR 5218), France
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Gruffudd Jones, Morgan Coe, Emidio Marchetti, Leah-Nani Alconcel, Mikhail Cherniakov, Marina Gashinova, University of Birmingham, UK

EuRAD14: Emerging Technologies in Automotive Radar

Chair: Fabian Lurz, OvG Universität Magdeburg, Germany

Co-Chair: Raphaël Aubry, Valeo, France

08:30–10:10, Friday 27th September 2024, E02

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Vincent Martinez¹, Alessio Filippi², Marnix Vlot²
¹NXP Semiconductors, France; ²NXP Semiconductors, The Netherlands
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¹FAU Erlangen-Nürnberg, Germany; ²indie Semiconductor, Germany
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Maurice Schepers¹, Sönke Vogel², Christian Krebs¹
¹Fraunhofer FHR, Germany; ²RWTH Aachen University, Germany
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Seonghyeon Kang¹, Kawon Han², Songcheol Hong¹
¹KAIST, Korea; ²University College London, UK
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Max Heidbrink, Oliver Sura, Vinoth Kumar Rangaraj, Marc Reinecke, Marcel Hoffmann, Martin Vossiek, FAU Erlangen-Nürnberg, Germany

EuRAD15: Radar Networks and MIMO

Chair: R.I.A. Harmanny, Thales, The Netherlands

Co-Chair: Laura Anitori, CNIT, Italy

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Konstantin Root, Ingrid Ullmann, Martin Vossiek, FAU Erlangen-Nürnberg, Germany

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Chair: Marc Bauduin, imec, Belgium

Co-Chair: Alexander G. Yarovoy, Technische Universiteit Delft, The Netherlands

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¹UH Mānoa, USA; ²University of Nis, Serbia
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¹BTU, Germany; ²Universitätsklinikum Erlangen, Germany; ³Technische Universität Hamburg, Germany
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¹Pukyong National University, Korea; ²KIOST, Korea; ³DGIST, Korea
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Johanna Bräunig, Vanessa Wirth, Marc Stamminger, Ingrid Ullmann, Martin Vossiek, FAU Erlangen-Nürnberg, Germany

EuRAD17: Automotive Radar: Advanced Techniques, Signal Processing, and Spectrum Management

Chair: Holger Maune, OvG Universität Magdeburg, Germany

Co-Chair: Raphaël Aubry, Valeo, France

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- 336 **Compression of Preprocessed Automotive Radar Data by Using Context-Adaptive Binary Arithmetic Coding**
Rainer Rückert¹, Yanyan Li¹, Christian Herglotz², Oliver Sura¹, André Kaup¹, Martin Vossiek¹
¹FAU Erlangen-Nürnberg, Germany; ²BTU, Germany
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Alessandro Bazzi¹, Francesco Miccoli², Zhuofei Wu², Fabrizio Cuccoli², Vincent Martinez³
¹Università di Bologna, Italy; ²CNIT, Italy; ³NXP Semiconductors, France
- 344 **Spatial-Radon and Doppler Aggregated Radar Odometry**
Daniel Louback S. Lubanco¹, Ahmed Hashem¹, Markus Pichler-Scheder², Thomas Schlechter³, Reinhard Feger¹, Andreas Stelzer¹
¹Johannes Kepler Universität Linz, Austria; ²LCM, Austria; ³FH Oberösterreich, Austria
- 348 **On the Advantages of Coherent Automotive Radar Networks for Occupancy Gridmapping**
Oliver Sura¹, Mario Euler¹, Max Heidbrink¹, Marcel Hoffmann¹, Peter Gulden², Martin Vossiek¹
¹FAU Erlangen-Nürnberg, Germany; ²indie Semiconductor, Germany
- 352 **Implementation of 3D Automotive SAR Imaging**
Theresa Noegel, Marc Reinecke, Lars Schwenger, Max Heidbrink, Marcel Hoffmann, Martin Vossiek, FAU Erlangen-Nürnberg, Germany

EuRAD18: High Resolution Radar Techniques

Chair: Nils Pohl, Ruhr-Universität Bochum, Germany

10:40-12:20, Friday 27th September 2024, E03

- 356 **Resolution Enhancement of Radar Systems Through Super Fusion of Non-Contiguous Frequency Bands**
Thomas Micallef¹, Xiaoqiang Gu², Ke Wu¹
¹Polytechnique Montréal, Canada; ²University of Bristol, UK
- 360 **Sidelobe Suppression in Multistatic Radar Imaging Using Cyclic Richardson-Lucy Deconvolutions**
Marius Brinkmann¹, Matthias M. Saurer², Gerhard F. Hamberger¹, Thomas F. Eibert²
¹Rohde & Schwarz, Germany; ²Technische Universität München, Germany
- 364 **Matrix Pencil Based Estimation of Parameters in 2D for Non-Collinear Uniform Linear Arrays**
Ram Kishore Arumugam¹, André Froehly¹, Patrick Wallrath¹, Reinhold Herschel², Nils Pohl³
¹Fraunhofer FHR, Germany; ²BIT Technology Solutions, Germany; ³Ruhr-Universität Bochum, Germany
- 368 **Comparison of Monostatic and MIMO Millimeter-Wave Radar Imaging of Vulnerable Road Users**
Isabella B. Varga¹, Marius Brinkmann², Willi Hofmann¹, Andreas Schwind¹, Thomas Dallmann¹, Matthias A. Hein¹
¹Technische Universität Ilmenau, Germany; ²Rohde & Schwarz, Germany
- 372 **Improved Resolutions in Forward Looking MIMO-SAR Through Burg Algorithm**
Muge Bekar, Ali Bekar, Chris Baker, Marina Gashinova, University of Birmingham, UK

EuRAD19: Behavior and Attitude Estimation Using Continuous-Waves Radars

Chair: André Bourdoux, imec, Belgium

Co-Chair: François Horlin, Université Libre de Bruxelles, Belgium

10:40–12:20, Friday 27th September 2024, E04

- 376 **Outdoor Group Counting Based on Micro-Doppler Signatures Obtained with a 77GHz FMCW Radar**
Dejvi Cakoni¹, Laurent Storrer¹, Bruno Cornelis², Philippe De Doncker¹, François Horlin¹
¹Université Libre de Bruxelles, Belgium; ²Macq, Belgium
- 380 **Quantitative Assessment of People Tracking with FMCW MIMO Radar**
Dingyang Wang, Francesco Fioranelli, Alexander Yarovoy, Technische Universiteit Delft, The Netherlands
- 384 **Estimating the Rotation Rate of UAV Propellers Using Pitch Estimation Techniques**
Andrea Quirini¹, Maryam AminNasrabadi¹, Carlo Bongioanni², Pierfrancesco Lombardo¹
¹Università di Roma “La Sapienza”, Italy; ²Centro Alti Studi per la Difesa, Italy
- 388 **Low-Complexity Gesture Recognition Based on FMCW Radar**
Yanhua Zhao, Vladica Sark, Milos Krstic, Eckhard Grass, IHP, Germany
- 392 **In-Cabin Detection, Localization and Classification Based on mmWave Radar with TinyML**
Zhifei Wang, Yige Cheng, Hui Peng, Huiqiang Zhou, Zheng Wang, Hongquan Liu, Calterah Semiconductor Technology, China

EuRAD20: EuRAD Closing Session

Chair: Guido Valerio, Sorbonne Université, France

Co-Chair: Kamel Haddadi, IEMN (UMR 8520), France

13:50–15:30, Friday 27th September 2024, N01

- (NA) **Session Welcome**
Guido Valerio¹, Kamel Haddadi²
¹EuRAD 2024 Chair; ²EuRAD 2024 TPC Chair
- (NA) **Why SDV is More Than a Buzzword**
Joachim Mathes, Valeo, Germany
- (NA) **Awards Ceremony**
Olivier Lafond, EuMW 2024 Awards Chair
- (NA) **Closing Remarks**
Guido Valerio, EuRAD 2024 Chair

EuMC/EuRAD01 : Antenna Arrays

Chair: Mario Pauli, KIT, Germany

Co-Chair: Benjamin Nuss, KIT, Germany

10:40-12:20, Thursday 26th September 2024, E04

- 397 **Mutual Coupling Reduction in Waveguide-Based Antenna Systems at mm-Wave Frequencies**
Claudia Vasanelli¹, Mohammad Vatankhah Varnoosfaderani², Zachary Crawford², Hassan Ali², Venkatesh Srinivasan², Brian Ginsburg², Swaminathan Sankaran²
¹Texas Instruments, Germany; ²Texas Instruments, USA
- 401 **Design of Ridged and Double-Slot Waveguide Array for Corner Automotive Radar**
Yunsu Kang, HL Klemove, Korea
- (NA) **A 77-GHz Quasi-Monopulse Tracking Radar with Metamaterial Lens and Transceiver Feeds**
Christoph Kohlberger¹, Reinhard Feger², Richard Hüttner², Andreas Haderer¹, Andreas Stelzer²
¹Joby Austria, Austria; ²Johannes Kepler Universität Linz, Austria
- 409 **A Front End Design in K- and Ka-Band for a Hybrid Steerable Multi-Beam Satellite Antenna Array**
Andreas Krause, Engelbert Tyroller, Stefan Lindenmeier, Universität der Bundeswehr München, Germany
- 413 **Influence of the Low-Scattering, Low-Band Dipole on the Co-Existing High-Band Array**
Mikko K. Leino¹, Juha Ala-Laurinaho², Anders Höök³, Bengt Svensson³, Ville Viikari²
¹Radiantum, Finland; ²Aalto University, Finland; ³Saab, Sweden

EuMC/EuRAD02 : EuMC/EuRAD Poster

Chair: Olivier Lafond, IETR (UMR 6164), France

10:40-12:20, Thursday 26th September 2024, Exhibition Hall

- (NA) **Analog Radio Over Fiber Transmission of OTFS Modulated Signals**
Stanislav Winkler, Sebastian Kulig Villanueva, Tolga Tekin, Michail Symeonidis, Sevag Abadian, Bogdan Sirbu, Fraunhofer IZM, Germany
- (NA) **Modified Wheeler Caps for Antennas Used in IoT Applications**
Joshua Howorth¹, Alejandro Buitrago Bernal¹, Ying Wang¹, Langis Roy¹, Denis Zheng², Phil Lafleur²
¹Ontario Tech University, Canada; ²ORBCOMM, Canada
- (NA) **Orthogonal Vector Approach for Reducing Loadpulling Effect in MIMO Transmitters**
Jiayu Hou, Haijun Fan, Yuan Ding, George Goussetis, Heriot-Watt University, UK
- (NA) **Harmonizing Energy Harvesting and Backscattering Communications Through Agile Power Allocation**
Kai Xu¹, Yishan Wang¹, Wei Gong², Jayakrishnan Methapettyparambu Purushothama¹, Chaoyun Song³, George Goussetis¹, Yuan Ding¹
¹Heriot-Watt University, UK; ²USTC, China; ³King's College London, UK
- (NA) **A Dual-Principle Fluidic Level Sensor**
Zsolt Szabó, PPKE, Hungary
- (NA) **On-the-Fly Interrogation of Mobile Passive Sensors from the Fusion of Optical and Radar Data**
Ali Hadj Djilani, Dominique Henry, Patrick Pons, Hervé Aubert, LAAS-CNRS, France

- (NA) **Dual Band Rectenna on Flexible Bio-Sourced Substrate for Ambient Electromagnetic Energy Harvesting**
A. Sid¹, G. Boussatour¹, P.-Y. Cresson¹, N. Joly², T. Lasri¹
¹IEMN (UMR 8520), France; ²UT&A (ULR 7519), France
- (NA) **A Zero-Power DC Voltage-to-RF Impedance Converter Enabling Sustainable & Frugal Wireless Sensor Networks**
Raphaël Dauny¹, Xiaoqiang Gu², Corinne Dejous¹, S. Hemour¹
¹IMS (UMR 5218), France; ²University of Bristol, UK
- 449 **A Simple Solution to Enhance the Bandwidth and Return Loss of DR Loaded Monopole Antenna**
Stefan Simion, MTA, Romania
- 453 **A D-Band Radar-Based Channel Measurement Setup for Joint Communication and Sensing**
Tobias Körner, Jochen Altholz, Ilona Rolfes, Jan Barowski, Ruhr-Universität Bochum, Germany
- 457 **FMCW Radar Signal Processing Pipeline for Aircraft Marshalling Signals Classification**
Jim Vermunt, Federico Corradi, Technische Universiteit Eindhoven, The Netherlands