



Room 4

EuRAD11
Target Localisation and Tracking
 Chair: Laith Danoon, Manchester University
 Co-Chair: Mayazzurra Ruggiano, Thales Netherlands



Room 14

EuRAD12
Polarimetric Radar and Applications
 Chair: Felix Yanovsky, National Aviation University of Ukraine
 Co-Chair: Mike Cherniakov, University of Birmingham



Room 4

EuRAD13
EW and Radar
 Chair: Andy Stove, Stove Specialities
 Co-Chair: Krzysztof Kulpa, Warsaw University of Technology

09:00 - 09:20
EuRAD11-01
Modeling Range-Only Multistatic Radar Target Detection with Interval Analysis in 3D
 W. Al Mashhadani, L. Danoon, A. Brown, University on Manchester, Manchester, United Kingdom

EuRAD12-01
Design and Demonstration of a Full Polarimetric Sensor for Surface Texture Characterisation
 C. Erhart¹, S. Lutz¹, T. Walter¹, H. Mantz¹, P. Hügler², R. Weigel³, ¹University of Applied Sciences Ulm, Ulm, Germany, ²University of Ulm, Ulm, Germany, ³Friedrich Alexander University of Erlangen-Nuremberg, Erlangen, Germany

11:20 - 11:40
EuRAD13-01
Radar Resource Management Study for Multifunction Phased Array Radar
 M. Schikorr, U. Fuchs, M. Bockmair, Airbus DS Electronics and Border Security GmbH, Ulm, Germany

09:20 - 09:40
EuRAD11-02
An Enhanced Wavefront Extraction Algorithm for Super-Resolution Ultra Wideband Radar Systems Based on Correlation
 B. Friederich, D. Damyanov, T. Schultze, I. H. Willms, University Duisburg-Essen, Duisburg, Germany

EuRAD12-02
Copula Analysis of Full Polarimetric Weather Radar Complex Signals
 F. J. Yanovsky, A. N. Rudiakova, R. B. Sinitsyn, Y. A. Averyanova, National Aviation University of Ukraine, Kiev, Ukraine

11:40 - 12:00
EuRAD13-02
A Fast ELINT Receiver Design
 A. Alparslan¹, K. Yegin², ¹Tubitak, Kocaeli, Turkey, ²Ege University Faculty of Engineering, Izmir, Turkey

09:40 - 10:00
EuRAD11-03
Positioning of Moving Non-Line-of-Sight Targets Behind a Corner
 T. Johansson, A. Andersson, M. Gustafsson, S. Nilsson, Swedish Defence Research Agency (FOI), Linköping, Sweden

EuRAD12-03
Test and Validation of Particle Classification Based on Meteorological Model and Radar Simulator
 N. Roberto¹, E. Adirosi¹, L. Baldini¹, S. Lischi², A. Lupidi², F. Cuccoli², E. Barcaroli², L. Facheris³, ¹ISAC, Rome, Italy, ²CNIT, Pisa, Italy, ³University of Florence, Firenze, Italy

12:00 - 12:20
EuRAD13-03
Real-Time Channel Emulator for Radar-Altimeters Characterization
 A. Paris^{1,2}, M. Mouhamadou¹, C. Decroze¹, D. Carsenat², S. Tallet², G. Geneste², ¹XLIM Research Institute, Limoges, France, ²Thales Communications & Security, Brive La Gaillarde, France

10:00 - 10:20
EuRAD11-04
An Enhanced Triangulation Algorithm for a Distributed RSSI-DoA Positioning System
 M. Passafiume, S. Maddio, M. Lucarelli, A. Cidronali, University of Florence, Florence, Italy

EuRAD12-04
Polarimetric Optimization for Clutter Suppression in Spectral Polarimetric Weather Radar
 J. Yin, C. Unal, H. Russchenberg, Delft University of Technology, Delft, The Netherlands

12:20 - 12:40
EuRAD13-04
Deinterleaving For Radar Warning Receivers with Missed Pulse Consideration
 B. M. Kocamis, H. Abaci, S. B. Akdemir, S. Varma, A. Yildirim, Tubitak, Ankara, Turkey

10:20 - 10:40
EuRAD11-05
Multi-target Tracking Based on δ -GLMB Filter with Amplitude Information
 C. Yuan, J. Wang, S. Wei, H. Xiang, Beihang University, Beijing, China

EuRAD12-05
W-Band Digital Variable Polarized Monopulse Measurement Radar
 Z. Li, Y. Xiao, G. Zhao, S. Li, H. Sun, R. Tao, Beijing Institute of Technology, Beijing, China

12:40 - 13:00
EuRAD13-05
A Novel Full Duplex Active Countermeasure System for Artificial Target Generation
 P. Ratna, ASL, Hyderabad, India



Room 14

EuRAD14
Automotive and Vehicular Radar Applications

Chair: Christian Waldschmidt, University of Ulm
 Co-Chair: Chris Duff, University of Manchester

EuRAD14-01
Pedestrian Recognition using 79 GHz Radars for Intersection Surveillance

W. Liu, T. Kasahara, M. Yasugi, Y. Nakagawa, Panasonic System Networks Co., Ltd., Yokohama, Japan

11:20 - 11:40

EuRAD14-02
Enhancement of Doppler Resolution for Chirp-Sequence Modulated Radars

F. Roos¹, M. Barjenbruch², N. Appenrodt³, J. Dickmann³, C. Waldschmidt¹, ¹Ulm University, Ulm, Germany, ²Daimler AG, Stuttgart, Germany, ³Daimler AG, Ulm, Germany

11:40 - 12:00

EuRAD14-03
RCS Characteristics of Street Curbs and the Applications in Automotive Radar Classification

A. Ioffe¹, W. Doerr¹, H. Yan¹, D. Vu², ¹Delphi Deutschland GmbH, Wuppertal, Germany, ²Delphi Automotive, Agoura Hills, United States

12:00 - 12:20

EuRAD14-04
A High Bandwidth Radar Target Simulator for Automotive Radar Sensors

M. Engelhardt¹, F. Pfeiffer², E. Biebl¹, ¹TU München, München, Germany, ²Perisens GmbH, Garching bei München, Germany

12:20 - 12:40

EuRAD14-05
Repeated Symbols OFDM-MIMO Radar at 24 GHz

G. Hakobyan¹, M. Girma¹, X. Li¹, N. Tammireddy¹, B. Yang², ¹Robert Bosch GmbH, Stuttgart, Germany, ²University of Stuttgart, Stuttgart, Germany

12:40 - 13:00



Rooms 7 - 9

EuRAD15
EuRAD Closing Session

Chair: David Daniels, EuRAD 2016 Chair
 Co-Chair: Albert Huizing, EuRAD 2016 Co-Chair

13:00 - 14:20
Lunch in Lounge

14:20 - 14:25
Invited Speaker Introduction
 David Daniels

14:25 - 15:25
Early History of Bistatic Radar
 Professor Hugh Griffiths, UCL, UK

Professor Hugh Griffiths, THALES/Royal Academy of Engineering Chair of RF Sensors in the UCL Department of Electronic and Electrical Engineering. Professor Griffiths has led radar research at UCL for more than 20 years. His group carried out some of the first experiments in passive radar, and recently published first results on the statistical nature of bistatic radar sea clutter. He is a past recipient of the IEEE Nathanson Award and the Maxwell and Mountbatten Premium Awards of the IEE, and he was elected to Fellowship of the Royal Academy of Engineering in 1997. In studying the history of radar, it is apparent that several of the earliest experiments were bistatic. One reason for this is that the transmit-receive switch was not invented till WW2. It is interesting therefore to examine some of the earliest bistatic radar experiments in the light of our current knowledge and experience. The paper and presentation will describe Appleton's 1924 experiments to measure the height of the ionosphere (also the first FM radar), Watson Watt's celebrated Daventry Experiment in 1935, and the German WW2 Klein Heidelberg system, which used the British Chain Home radars as its illumination source and which was the first proper operational bistatic radar.

15:25 - 15:45
EuRAD Awards Ceremony
 Chair: Ali Rezaazadeh, EuMW 2016 Awards Chair
EuRAD Best Paper Award
EuRAD Young Engineer Prize

15:45 - 15:55
Closing of EuRAD 2016
 David Daniels, EuRAD 2016 Chair

15:55 - 16:00
Invitation to EuRAD 2017 in Nuremberg
 Martin Vossiek, FAU Erlangen-Nuremberg, EuRAD 2017 Chair

14:20 - 16:00