International Radar Conference 2023
MONDAY 06 November 2023 - FRIDAY 10 November 2023
ICC Sydney

			Monday, 06 November 2023		
	C3.1	C3.2	C3.3	C3.4	C3.5
	МО-М1	MO-M2	МО-М3	МО-М4	MO-M5
08:00	Ultra Wideband Surveillance Radar Dr Mark Davis	Systematic Filter Design for Tracking Maneuvering Targets: Getting Guaranteed Performance Out Of your Sensors Dr Dale Blair	Unleashing the Potential of Dual-Functional Radar Communications in Next-Generation Wireless Networks: A Tutorial on Advancement and Challenges Dr Kai Wu, A/Prof Elias Aboutanios and Prof Andrew Zhang	Introduction to Radar Prof Hugh Griffiths	Detection, Estimation, and Resource Allocation in Distributed Radar Networks Prof Batu Chalise
09:45	Morning tea break	Morning tea break	Morning tea break	Morning tea break	Morning tea break
10:15	Ultra Wideband Surveillance Radar Dr Mark Davis	Systematic Filter Design for Tracking Maneuvering Targets: Getting Guaranteed Performance Out Of your Sensors Dr Dale Blair	Unleashing the Potential of Dual-Functional Radar Communications in Next-Generation Wireless Networks: A Tutorial on Advancement and Challenges Kai Wu, Elias Aboutanios and Andrew Zhang	Introduction to Radar Prof Hugh Griffiths	Detection, Estimation, and Resource Allocation in Distributed Radar Networks Prof Batu Chalise
12:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
13:00 14:00		Advanced Radar Detection and Applications Dr Scott Goldstien and Dr Mike Picciolo	ISAC workshop (starting time 2pm)	Introduction to Electronic Warfare Mr David Brown	Introduction to Over-the-Horizon Radar Dr Joe Fabrizio
14:45		Afternoon tea break	Afternoon tea break	Afternoon tea break	Afternoon tea break
15:15		Advanced Radar Detection and Applications Dr Scott Goldstien and Dr Mike Picciolo	ISAC workshop	Introduction to Electronic Warfare Mr David Brown	Introduction to Over-the-Horizon Radar Dr Joe Fabrizio
17:00		•			
17:30			Welcome Drinks - Pumphouse		
10.00					

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		Tuesday. 07 N	ovember 2023			
	Cockle Bay	C3.2	C3.4	C3.5		
	Cockle Bay : Plenary 1 Sponsored by CEA Technologies Session Chair: Joe Fabrizio					
8:20	Conference Welcome Dr Luke Rosenberg and Dr Joe Fabrizio					
8:50	Plenary 1 - Dr Sylvie Perreau DSTG, Australia The DSTG Radar Program					
9:25	Plenary 2 - Prof Yonina Eldar Weizmann Institute of Science, Israel Active Sensing for Communications and Health: From Signal Processing to Prototypes					
10:00	Morning Tea	Morning Tea	Morning Tea	Morning Tea		
	Cockle Bay : TU-M1 [Special Session] Enhancement in Drone Detection Session Chairs: Alberto Lupidi & Michail Antoniou	C3.2 : TU-M2 Space Radar Sponsored by Braemac Session Chairs: Nick Stacy & Richard West	C3.4 : TU-M3 [Special Session] Automotive Radar Session Chairs: Mats Pettersson & Fabiola Colone	C3.5 : TU-M4 Detection and Estimation 1 Sponsored by CDERT Flinders University Session Chairs: Mike Picciolo & Scott Goldstein		
10:30	<i>TU-M1.1</i> - 182: Multitask Learning for Radar- Based Characterization of Drones Dr Jacco DE WIT	Braemac Industry Talk	<i>TU-M3.1</i> - 84: Phase Modulated FMCW Waveforms and Receiver Structures for Automotive MIMO Radars Dr Nikita PETROV	<i>TU-M4.1 -</i> 29: Robust Detection in Distributed MIMO Radar Dr Braham HIMED		

10:50	<i>TU-M1.2</i> - 135: Study of long integration time passive radar processing techniques for low reflectivity drone detection Miss Anabel ALMODOVAR-HERNANDEZ	<i>TU-M2.2</i> - 83: Ambiguity Removal from the Cassini Radar Rings Observations Dr Richard WEST	<i>TU-M3.2</i> - 94: Efficient Multi-channel Automotive Radar Interference Mitigation Using Pruned and Quantized Neural Networks Mr. Marvin KLEMP	<i>TU-M4.2</i> - 199: Detecting Phonetic Characters using Radar Data Dr Nour GHADBAN
11:10	<i>TU-M1.3</i> - 343: Multistatic dual-channel detection of drones: effects of PNT errors Dr Alessio BALLERI	<i>TU-M2.3</i> - 115: Development of the Dust Ejecta Radar Technology (DERT) to Determine Plume-Surface Interaction Ejecta Velocities on Planetary Surfaces Dr Beverly KEMMERER	<i>TU-M3.3</i> - 248: Hybrid Approach for Reflective Surfaces Reconstruction Using Automotive Radar Mr Aviran GAL	<i>TU-M4.3</i> - 131: Detection Performance Analysis of Fully Coherent Multistatic Radar Processing Dr Paul BERRY
11:30	<i>TU-M1.4</i> - 230: Urban Clutter Analysis for Drone Detection using L-band Staring Radar Dr Michail ANTONIOU	<i>TU-M2.4</i> - 155: Impact of Ionospheric Doppler Perturbations on Space Domain Awareness Observations A/Prof Manuel CERVERA	<i>TU-M3.4</i> - 264: Bistatic Inverse Synthetic Aperture Radar Imaging of Automotive Targets at Millimeter Frequencies Prof Srihari PATHIPATI	TU-M4.4 - 251: Signal Fusion-based Distributed Detection in Heterogeneous Radar Scenarios Miss Aoya WANG
11:50	<i>TU-M1.5</i> - 225: Parameter Estimation of Rotary Drones in Far Distance using Long- Time Spectral Processing Mr Kun WU	<i>TU-M2.5</i> - 226: Skywave radar for planets other than Earth Prof Stuart ANDERSON	<i>TU-M3.5</i> - 284: Radar-Lidar Fusion for Classification of Traffic Signaling Motion in Automotive Applications Prof Ali GURBUZ	<i>TU-M4.5 -</i> 64: Binary Quadratic Programming based Detector for Radar Target in Compound Gaussian Clutter Dr Wenjing ZHAO
12:10	Lunch Break	Lunch Break	Lunch Break	Lunch Break
	Cockle Bay : TU-A1 [Special Session] Multidimensional Radar Imaging Session Chairs: Elisa Giusti & Marco Martorella	C3.2 : TU-A2 [Special Session] New Frontiers in Passive Radar Session Chairs: Diego Cristallini & Piotr Samczyncski	C3.4 : TU-A3 Automotive and Autonomous Systems Sponsored by Thales Session Chairs: Aboulnasr Hassanien & Patrick Berens	C3.5 : TU-A4 Detection and Estimation 2 Session Chairs: Braham Himed & Batu K. Chalise

13:10	<i>TU-A1.1</i> - 126: Potentials of multi-aspect and multi-frequency radar imaging illustrated by experimental results in Ka- and W-band Dr Ingo WALTERSCHEID	<i>TU-A2.1</i> - 47: A portable many-element coherent receiver system for passive radar and space domain awareness <i>A</i> / Prof Randall WAYTH	<i>TU-A3.1</i> - 39: W-band Radar aboard of Unmanned Aerial System for Wire Strike Avoidance Prof Massimiliano PIERACCINI	<i>TU-A4.1</i> - 306: Determination of the Number of Stages of the Multistage Wiener Filter Ms Rachel GRAY
13:30	<i>TU-A1.2</i> - 271: Hybrid Polarimetry Inverse SAR Dr Ajeet KUMAR	<i>TU-A2.2</i> - 53: Impact of Transmitter Elevation Pattern on Multi-frequency DVB-T Passive Radar Detection of Airborne Targets Dr Thomas SJöGREN	<i>TU-A3.2</i> - 339: Resolving Target Ambiguities in Automotive Radar Using DDMA Techniques Mr Aboulnasr HASSANIEN	TU-A4.2 - 79: Experimental Analysis of a Clutter Suppression Algorithm for High Time- Bandwidth Noise Radar Mr Robert S. JONSSON
13:50	<i>TU-A1.3</i> - 76: Large Baseline Bistatic Radar Imaging for Space Domain Awareness Dr Faruk UYSAL	<i>TU-A2.3</i> - 143: Experimental UAV detection using 4G-LTE-based passive radar Dr Abigael TAYLOR	<i>TU-A3.3</i> - 256: FMCW Interference Suppression Technique in OFDM Automotive Radar Using Grid Dechirping Mr Antônio MAEDA-MAGALHAES	<i>TU-A4.3</i> - 270: Discrimination of Automotive Radar Distributed Targets Dr Zhouchang REN
14:10	TU-A1.4 - 281: Multi-Static and Multi- Temporal ISAR Imaging of Non-Cooperative Air Targets Dr Marcin BąCZYK	<i>TU-A2.4 -</i> 136: DoA techniques in UAV detection with DVB-T based Passive Radar Dr Nerea DEL REY MAESTRE	<i>TU-A3.4</i> - 82: Robust 3D Mobile Mapping with Radar Sensors: A Real-Time Approach for Autonomous Navigation Mr Christoph WEIDINGER	<i>TU-A4.4</i> - 101: A NLOS Target Detection Method with MMW Radar under Low SNR Dr Haolan LUO
14:30	<i>TU-A1.5</i> - 186: Maritime 3D-ISAR with Clutter Suppression Dr Chow Yii PUI	<i>TU-A2.5</i> - 172: New Frontiers in Passive Radar – an Industrial Perspective Dr Steffen LUTZ	<i>TU-A3.5</i> - 208: Collision Avoidance Navigation with Radar and Spiking Reinforcement Learning Mr Laurens VAN DAMME	<i>TU-A4.5</i> - 112: Clutter Compensation for Space-Air Bistatic Radar Based on Unitary Subspace Transformation Dr Qingyun KAN
14:50	Afternoon Tea	Afternoon Tea	Afternoon Tea	Afternoon Tea

	Cockle Bay : TU-A5 [Special Session] Student Paper Competition Session Chairs: Laura Anitori & Alex Charlish	C3.2 : TU-A6 Passive Radar Session Chairs: Stephen Searle & Konrad Jedrzejewski	C3.4 : TU-A7 Integrated Radar (Sensing) and Communications Sponsored by AVNET Session Chairs: Sabrina Greco & Myriam Nouvel	C3.5 : TU-A8 Radar Signal Processing Session Chairs: Shannon Blunt & Vaughan Clarkson
15:20	<i>TU-A5.1</i> - 66: Anomaly Based Drone Classification Using a Model Trained Convolutional Neural Network Autoencoder on Radar Micro-Doppler Mr Alexander KARLSSON	<i>TU-A6.1</i> - 181: First Results of DVB-S Based Passive Polarimetric Measurements of micro-Doppler Signatures of a Helicopter Mr Martin UMMENHOFER	<i>TU-A7.1</i> - 152: Multifunctional Radar and Data Link Functions for Dual Use Applications Dr Michael BRANDFASS	<i>TU-A8.1</i> - 183: Effects of Range Doppler- rate Coupling on High Frequency Chirp Radar for Accelerating Targets Mr Brendan HENNESSY
15:40	<i>TU-A5.2</i> - 80: Enhanced Target Tracking Based on Novel 5D Millimeter-wave Automotive MIMO Radar Dr Hengfeng LIU	<i>TU-A6.2</i> - 44: The Effect of Transmitter Nonlinearity on Passive Radar Ambiguity Processing Mr Stephen SEARLE	<i>TU-A7.2</i> - 338: Ambiguity Function Analysis of the Frequency-Hopped Code Selection Scheme Dr William BAXTER	TU-A8.2 - 269: Group Counting Using Micro Doppler Signatures From a 77GHz FMCW Radar Mr Dejvi CAKONI
16:00	<i>TU-A5.3</i> - 91: High-Resolution 2D MIMO Radars for Traffic Gesture Recognition Mr Nicolai KERN	<i>TU-A6.3</i> - 266: GNSS-Based Non- Cooperative Air Traffic Situational Awareness Dr Alexandra FILIP-DHAUBHADEL	<i>TU-A7.3</i> - 213: Colocated MIMO Radar Anti- sorting Waveform Design based on Communication Camouflage Mr Mingcong LIN	<i>TU-A8.3</i> - 151: Decentralized Digital Clock Drift Compensation in Distributed Radar Sensor Networks Through Single-Tone Frequency Broadcasts Mr Russell KENNEY
16:20	<i>TU-A5.4</i> - 159: Enabling Intra-CPI Frequency Agility Via Backprojection Based Range-Doppler Processing Mr Rylee MATTINGLY	<i>TU-A6.4</i> - 327: Passive Multistatic Localization of Space Objects using LOFAR Radio Telescope Prof Konrad JEDRZEJEWSKI	TU-A7.4 - 241: Transmit Sparse Array Beamformer Design for Dual-Function Radar Communication Systems Miss Jiayi HUANG	<i>TU-A8.4</i> - 206: Importance Differentiation Based Coordinated Anti-Jamming Strategy Optimization for Frequency Agile Radar Mr Linhua BAI

16:40	<i>TU-A5.5</i> - 188: A Particle Swarm	<i>TU-A6.5</i> - 285: Comparison of DF	<i>TU-A7.5</i> - 110: An FDA-MIMO-Based	<i>TU-A8.5</i> - 164: Element Space DOA	
	Optimization Approach to Surveillance	algorithms for target localization in UCA FM	Range-Ambiguous Clutter Sensing	Estimation for Directional Transmission	
	Resource Management	bi-static passive radar	Approach for STAP	Scanning Phased Array Radars	
	Mr Shane FLANDERMEYER	Dr Mohammed MOBIEN	Mr Youai WU	Prof Doug Gray	
17:00	Young Professionals Event				

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		Wednesda	y, 08 November 2023				
	Cockle Bay	C3.2	C3.4	C3.5	Foyer		
	Cockle Bay : Plenary 2 Sponsored by Department of Defence Session Chair: Luke Rosenberg						
8:20	Plenary 1 - Dr Frank Robey DARPA, USA The DARPA BLIP Program	Plenary 1 - Dr Frank Robey DARPA, USA The DARPA BLIP Program					
8:55	Plenary 2 - Mr Willie Nell CSIR, South Africa Saving the Rhino in the Kruger National Park						
9:30					Poster Session 1		
10:00	Morning Tea	Morning Tea	Morning Tea	Morning Tea	Powis & Sandun Kodituwakku		
	Cockle Bay : WE-M1 Al/ML-based Radar and its Applications 1 Sponsored by Rhode and Schwartz Session Chairs: Justin Metcalf & Faruk Uysal	C3.2 : WE-M2 SAR/ISAR 1 Session Chairs: Philipp Markiton & Mark Preiss	C3.4 : WE-M3 [Special Session] Advances in Sparse Array Design using Deep Learning Session Chairs: Xiangrong Wang & Elias Aboutanios	C3.5 : WE-M4 Tracking and Fusion 1 Session Chairs: Dale Blair & Du Yong Kim			
10:30	Rhode and Schwartz Industry Talk	<i>WE-M2.1</i> - 254: First multi-channel results of the airborneSAR/GMTI sensor PAMIR-Ka Dr Patrick BERENS	<i>WE-M3.1</i> - 109: DOA Estimation via Meta- Learning under Array Sensor Failures Mr Chengyuan HE	WE-M4.1 - 67: Data Driven Track Before Detect Using Artificial Neural Networks Mr Alexander KARLSSON			
10:50	WE-M1.2 - 220: Discrimination of small targets in sea clutter using a hybrid CNN-LSTM network Mr Richard Jasper DE JONG	WE-M2.2 - 40: Hybrid Passive-Active Approach for Interference Mitigation in Spaceborne SAR A/Prof Akram HOURANI	WE-M3.2 - 243: CNN based Sparse IRS Design for Channel Estimation in Assisted Uplink Communications Mr Weitong ZHAI	WE-M4.2 - 304: Collaborative Game Theory and Reinforcement Learning Improvements for Radar Tracking Mr Geoffrey DOLINGER			

11:10	<i>WE-M1.3</i> - 133: Concept for an Automatic Annotation of Automotive Radar Data Using Al- segmented Aerial Camera Images Mr Michael STELZIG	WE-M2.3 - 42: Reconstruction of Fine Cross-Range Resolution ISAR Images of Targets in 3-D Motion using Compressed Sensing and Frame Selection Mr Inhyeok LEE	WE-M3.3 - 263: Enhanced Maximum Interelement Constrained Array Design via Simple Hole-Filling Strategy Mr Steven WANDALE	WE-M4.3 - 77: A MIMO ISAR Approach with Depth Camera Motion Tracking for Improved Imaging in Walk-Through Security Scanners Mr Konstantin ROOT	
11:30	WE-M1.4 - 237: Automatic LPI Radar Waveform Recognition Using Vision Transformer Mr Junseob KIM	WE-M2.4 - 232: Experiments on an ISAR- Communication System Using Continuous Phase Modulation and Mismatched Filtering Dr Abigael TAYLOR	WE-M3.4 - 274: Receive Beamforming with Sidelobe and Nulling Control for Multi- functional Sparse Array Ms Longyao RAN	WE-M4.4 - 235: Radar Multi Object Tracking using DNN Features Mr Mujtaba HASSAN	
11:50	WE-M1.5 - 290: Statistical Feature Vector (SFV) for SAR ATR Dr Michael PICCIOLO	WE-M2.5 - 184: Hierarchical Classification of ISAR Sequences A/Prof Len HAMEY	WE-M3.5 - 293: Deep Sparse Array Design for Integrated Sensing and Communications Prof Ali Cafer GURBUZ	<i>WE-M4.5</i> - 273: A Real-Time Implementation of a DPCA GMTI Technique for a UAV SAR Demonstrator System Developed by the CSIR. Mr Katlego MOSITO	
12:10	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
13:10	Panel Session - Dreaming the Radar Future				
14:20					Poster Session 2 Session Chairs: Troy
14:50	Afternoon Tea	Afternoon Tea	Afternoon Tea	Afternoon Tea	Kilpatrick & Robby McKilliam
	Cockle Bay : WE-A1 Al/ML-based Radar and its Applications 2 Session Chairs: Willie Nel & Patrick McCormick	C3.2 : WE-A2 SAR/ISAR 2 Session Chairs: Chow Pui & Ingo Walterscheid	C3.4 : WE-A3 Array Processing Session Chairs: Doug Gray & Graham Brooker	C3.5 : WE-A4 Tracking and Fusion 2 Sponsored by LMA Session Chairs: Anthony Murray & Anthony Trezza	
15:20	WE-A1.1 - 195: Design of phase-quantized unimodular waveforms on neural networks for MIMO radar systems Mr Ryota SEKIYA	WE-A2.1 - 36: Two Dimensional Resolution Improvement for FMCW Synthetic Aperture Radar Using Multistatic Configuration Mr Min Gon CHO	WE-A3.1 - 280: Coherency limits and synchronisation of a netted radar system using USRPs as nodes Mr Angel SLAVOV	LMA Industry Talk	

15:40	WE-A1.2 - 170: Robust Radar Micro-Doppler Target Classification of Small Drones by Data Augmentation Mr Sidney RYDSTRöM	WE-A2.2 - 37: UAS-borne CWSF SAR imaging: evaluation/compensation of Doppler effect Prof Massimiliano PIERACCINI	WE-A3.2 - 68: Human Target Recognition Using MIMO FMCW Radar and Slow-Time DC-Value Suppression Mr Keivan ALIREZAZAD	<i>WE-A4.2</i> - 244: Track-Before-Detect Adaptive Birth Using Generic Observation Model Labeled Random Finite Sets <i>Mr Anthony TREZZA</i>	
16:00	WE-A1.3 - 93: Classification of Marine Traffic Activities Using ES Sensors and A VAE-CapsNet Approach Dr Timothy LYNAR	<i>WE-A2.3</i> - 46: A Robust CFAR Algorithm Based on Superpixel Merging Operation for SAR Ship Detection Dr Zhouchang REN	<i>WE-A3.3</i> - 63: A Reduced-Dimensional STAP Scheme for End-Fire Array Airborne Radar Mr Haihong WANG	WE-A4.3 - 291: Parameter Tuning for Maritime Track-Before-Detect Dr Du Yong KIM	
16:20	WE-A1.4 - 73: Space-time Adaptive Processing Using a Model-based Deep Learning Method Mr Zhipeng LIAO	WE-A2.4 - 134: Harbour Area Change Detection and Analysis Using SAR Images from a Recent Measurement Campaign Dr Saleh JAVADI	WE-A3.4 - 224: Joint Design of Transmit and Receive Beamforming for Active RIS- aided Array Radar Dr Shengyao CHEN	WE-A4.4 - 332: EM-Based Radar Signal Processing and Tracking of Maneuvering Targets Mr Dale BLAIR	
16:40	WE-A1.5 - 187: Automated ISAR Image Quality Assessment Dr Tomasz JASINSKI	WE-A2.5 - 100: Realistic Scatterer Based Adversarial Attacks on SAR Image Classifiers Mr Lance KAPLAN	<i>WE-A3.5</i> - 87: Reduced-Dimensional 3D- STAP with Multibeam and Multichannel for Space-Based Radar Miss Yufan LI	WE-A4.5 - 105: Resources Allocation for Drones Tracking Utilizing Agent-Based Proximity Policy Optimization Mr Maxence DE ROCHECHOUART	
17:00					
17:30	Conference Gala Dinner - Harbour Cruise				
19:00		Confere	nce Gala Dinner - Luna Park		
22:30	0				

Foyer: WE-M5 Poster Session 1 (9:30 - 10:30)
WE-M5.1(1) - 45: Effect of SAR point spread function on the correlation of clutter David Belcher
WE-M5.1(2) - 52: Synthetic Aperture Radar Algorithms on Transport Triggered Architecture Processors using OpenCL Niklas Rother
WE-M5.1(3) - 194: Detecting Planes during Take-off in SAR images using GMTI methods Elliot Hansen
WE-M5.1(4) - 331: SAR Image Correction of Moving Ships in Marine Scene based on Wakes Min Zhang
WE-M5.1(5) - 228: Classification of polarimetric SAR imagery based on improved MRF model using Wishart distance and category confidence-degree cong xie
WE-M5.2(1) - 103: Robust Adaptive Beamforming Based on MR-FDA-MIMO radar Jamming Suppression Zhixia Wu
WE-M5.2(2) - 114: Gridless Bayesian Inference for DOA Estimation with Coprime Array Mr Chengyuan HE
WE-M5.2(3) - 185: Velocity Ambiguity Resolution using Opposite Chirprates with LFM Radar Brendan Hennessy
WE-M5.2(4) - 154: Mean Squared Error Analysis of Least SquaresEnvelope Fitting DoA Estimator Michal Meller
<i>WE-M5.2(5)</i> - 288: Pre-processing-based performance enhancement of DOA estimation for wideband LFM signals Ronald Mulinde
WE-M5.2(6) - 179: A RARE-MUSIC Algorithm for Near-Field Target Localization with COLD-FDA-MIMO Radar Tiantian Zhong
WE-M5.3(1) - 201: A clutter suppression method based on the intrinsic mode functions reconstruction and information geometry space detection Bowen Zhang
<i>WE-M5.3(2)</i> - 205: Enhanced Transformers for Radar Jamming Recognition Yushi Chen
<i>WE-M5.3(3)</i> - 333: Unimodular MIMO Waveform Design for Saturated Forwarded Jammer Suppression Xuan Fang

<i>WE-M5.3(4)</i> - 275: Interrupted Sampling Repeater Jamming Suppression Based on Time-frequency Segmentation Network and Target Signal Reconstruction Yunyun Meng
WE-M5.4(1) - 34: Error Function Analysis and Simulation of the Radar Range Discriminator for the RGPO/I Range Deception Junghoon Lee
WE-M5.4(2) - 58: Noise Elimination with Compressive Sensing in Pulse Doppler Radar Receivers Shoji Matsuda
WE-M5.4(3) - 86: Calibration and Estimation for FDA-MIMO Radar with Random Amplitude and Phase Errors Feilong Liu Feilong Liu
WE-M5.4(4) - 326: A Modular Conformal Antenna Array for Wide-Beam DAA Radars Haider Ali
WE-M5.4(5) - 249: Design and Implementation of a Holographic Staring Radar for UAVs and birds Surveillance Rui Guo
WE-M5.4(6) - 258: Results of Dual-Polarimetric Airborne Passive Radar Philipp Markiton
WE-M5.4(7) - 90: Introduction to cognitive micro-Doppler radar: Optimization and Experiment Jason Gong
WE-M5.5(1) - 111: A time-frequency analysis method with joint speed estimation and translation compensation based on Near-Field MIMO Array Yuyang Shao
<i>WE-M5.5(2)</i> - 191: Time Delay Compensation For Cascaded MIMO Radar With Injection-Locked Structure Yuanhao Wang
WE-M5.5(3) - 246: A Sub-array MIMO Radar Waveform Design with Wide Pulse Compression Main-lobe Xiaohe Du
WE-M5.5(4) - 334: On the Recycling of Random FM Radar Waveforms Thomas Kramer
WE-M5.5(5) - 48: SINR and WPSL performance analysis for frequency sparse waveform Yinsheng Wei
<i>WE-M5.6(1)</i> - 99: How can Human-in-the-loop Improve the Performance of SAR ATR? A Reinforcement Learning Based Approach Bingyi Zhang
WE-M5.6(2) - 88: End-to-End Trainable Deep Neural Network for Radar Interference Detection and Mitigation Marvin Klemp

WE-M5.6(3) - 56: Fusion Model Using a Neural Network and MLE for a Single Snapshot DOA Estimation with Imperfection Mitigation Marcio Luiz Lima de Oliveira
WE-M5.6(4) - 242: A Compound Jamminng Signals Recognition Method Based on One-Dimensional Multi-Label Convolutional Neural Network Jiaqi Li
WE-M5.7(1) - 279: An Autonomous Approach to Deinterleave and Recover Radar Pulse Sequences in an Unknown Maritime Environment Guillaume Martin
WE-M5.7(2) - 128: End-to-End Training of Neural Networks for Automotive Radar Interference Mitigation Christian Oswald
<i>WE-M5.8(1)</i> - 296: Introducing a Multichannel Active Radar System for Research and Collaboration Dr Joe Fabrizio

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Foyer: WE-A5 Poster Session 2 (14:20 - 15:20)
WE-A5.1(1) - 289: Factors to Consider for Radiometric calibration of Airborne FMCW SAR imagery Hebert Tema
WE-A5.1(2) - 212: X-band SAR Data Acquisition and Frame-based Imaging: Towards Wide Area Surveillance Md Anowar Hossain
WE-A5.1(3) - 250: High Resolution Inverse Synthetic Aperture Radar Frequency Estimation using Fast Iterative Interpolated Beamformer Jeremy Parkinson
WE-A5.1(4) - 260: Unsupervised SAR change detection with despeckling autoencoders Joana Frontera-Pons
WE-A5.1(5) - 323: Passive Spacebourne SAR Using Opportunity ofIllumination Ferdi Ganda Kurnia
WE-A5.1(6) - 207: Scene Characteristic Mining-Based Semisupervised Network for Ship Detection in SAR Images Yuang Du
WE-A5.2(1) - 50: Low-Cost Vehicle In-Cabin Occupancy Detection Using An Approximate Model of XGBoost Kotone Sato
WE-A5.2(2) - 265: Parameters Extraction of Unknown Radar Signals Using Change Point Detection. Anthony Torre
WE-A5.2(3) - 190: Vehicles Detection, Tracking, And Classification Using 35GHz FMCW Radar Nannan Zhu
WE-A5.2(4) - 200: Distributed Radar Target Detection with Ordered Local Statistics Man Zhang
WE-A5.2(5) - 107: Target detection in mainlobe jammers with FDA-MIMO radar Jingjing Zhu
WE-A5.3(1) - 255: Super-resolution Imaging Method for Swarm Targets Based on Group Lasso Gang Mei
<i>WE-A5.3(2)</i> - 238: Improved Multi-Person Vital Signs Estimation Algorithm in Sitting and Standing Positions using MIMO FMCW Radar Bassam Elmakhzangy
<i>WE-A5.3(3)</i> - 239: Joint Multiple FMCW Chirp Sequence Processing for Velocity Estimation and Ambiguity Resolving Tarik Kazaz

<i>WE-A5.3(4)</i> - 245: Clutter Rank Estimation for Airborne Frequency Diversity Array Radar under Range Ambiguity Shengyao Chen
WE-A5.3(5) - 252: Doppler/Angle Coupling and Rejection for Slow-Time Phase Codes in MIMO Radar Olivier Rabaste
WE-A5.3(6) - 102: Sequential Multi-model Unscented Kalman Filter for Shipborne High Frequency Surface Wave Radar Longyuan Xu
WE-A5.3(7) - 129: Bayesian Filtering and Smoothing with Unknown Measurement Noise Covariance Eray Laz
<i>WE-A5.3(8)</i> - 236: Factors Affecting the Effective Clutter Rank for Planar and Conformal Antennas with Subarrays Svante Björklund
WE-A5.4(1) - 218: An Intelligent Jamming Strategy Design Method Against Frequency Agility Radar Boyang Yang
<i>WE-A5.4(2)</i> - 62: Radio Frequency Interference Suppression by Adaptive Filter Design for High-Frequency Radar Zhongtao Luo
WE-A5.4(3) - 72: Multiple Mainlobe Jamming Suppression via Eigen-Projection Processing Blind Source Separation Algorithm Yipin Liu
WE-A5.4(4) - 204: Anti-jamming Equilibrium Strategy Learning of Frequency Agile Radar based on Monte Carlo Tree Search Chao Wang
WE-A5.5(1) - 92: Angular dependence of RCS enhancement due to phase screens David Belcher
WE-A5.5(2) - 272: Differential Phase Correction of Dual-polarization Weather Radar with Slotted Waveguide Antenna Xiaomeng Zhao
WE-A5.5(3) - 292: The Ingara Real-Time Demonstrator Elliot Hansen
<i>WE-A5.5(4)</i> - 259: Impact of supervised reciprocal filter on clutter cancellation in OFDM radar Andrea Quirini
WE-A5.5(5) - 193: Vector-sensing antenna for measuring the direction of arrival of ionospherically propagated HF radio signals Lenard Pederick
WE-A5.6(1) - 222: An Inverse Reinforcement Learning Method to Infer Reward Function of Intelligent Jammer Youlin Fan

WE-A5.6(2) - 253: A Cognitive Radar Anti-Jamming Strategy Generation Algorithm based on Dueling Do	uble DQN
Aofei Lei	

WE-A5.6(3) - 124: A novel jamming signal recognition method based on data augmentation using 1D-GAN under small sample condition Lei Yu
WE-A5.6(4) - 57: HFSWR Clutter Recognition Based on Attention DCNN Yinsheng Wei
WE-A5.6(5) - 215: Lightweight CNN for HRRP Recognition Based on Attention Mechanism Structured Pruning Zhilong Zhang

	International Radar Conference 2023 MONDAY 06 November 2023 - FRIDAY 10 November 2023 ICC Sydney				
	Thursday, 09 November 2022				
	Cockle Bay	C3.2	C3.4	C3.5	
	Cockle Bay : Plenary 3 Sponsored by BAE Systems Session Chair: Marco Martorella				
8:50	Plenary 1 - Prof Hugh Griffiths UCL and UK MOD UK MOD Future Sensing Program				
9:25	Plenary 2 - Dr Carl Seubert SmartSat CRC, Australia An overview of SmartSat CRC and space- based radar research projects				
10:00	Morning Tea	Morning Tea	Morning Tea	Morning Tea	
10:30	Cockle Bay : TH-M1 Innovative Radar Systems 1 Sponsored by Australian Department of Defence Session Chairs: Frank Robey & David Holdsworth	C3.2 : TH-M2 [Special Session] NovaSAR-1 and Other SAR Applications in Australia Session Chairs: Zheng-Shu Zhou & Catherine Ticehurst	C3.4 : TH-M3 Modelling and Simulation Session Chairs: Mark Davis & Brian Ng	C3.5 : TH-M4 Target Classification and Recognition Session Chairs: Alessio Balleri & William Baxter	
10:30	<i>TH-M1.1</i> - 233: Dual-Mode FMCW Harmonic Radar Supporting Auxiliary Transmitter Operation Mr Greg STORZ	<i>TH-M2.1</i> - 119: Mapping flood events across Australia using NovaSAR-1 and Sentinel-1 Dr Catherine TICEHURST	TH-M3.1 - 160: Analysis of coherent radar sea clutter with combined wind driven sea and swell Dr Mark PREISS	TH-M4.1 - 140: Data Segmentation and Fusion for Classification of Armed Personnel Using Micro-Doppler Signatures Mr Edoardo FOCANTE	

10:50	<i>TH-M1.2</i> - 203: Design of a Multilayer Longitudinally Compact UWB 3-dB Microwave Coupler using Multiple Apertures Mr Ahmad BILAL	<i>TH-M2.2</i> - 123: The Australian Bureau of Meteorology's requirements for Synthetic Aperture Radar data Dr Helen BEGGS	<i>TH-M3.2</i> - 247: MATLAB-based Multistatic Passive Radar Demonstrator Prof Mateusz MALANOWSKI	<i>TH-M4.2</i> - 302: Micro-Doppler Power Analysis for Drone Discrimination Prof Douglas GRAY
11:10	<i>TH-M1.3</i> - 130: Ground-based Surveillance and Classification Radar for Wildlife Protection Mr Robert BERNDT	TH-M2.3 - 216: Machine learning methods for 1 km soil moisture retrieval from Sentinel- 1: an evaluation with limited training samples Mr Ziwei XIONG	<i>TH-M3.3</i> - 125: Calibration of a Radar Cross-section Model Using a Surrogate Model Optimization Algorithm Dr Thomas HOURET	<i>TH-M4.3</i> - 276: Privacy-Preserving Speaker Recognition Using Radars for Context Estimation in Future Multi-Modal Hearing Assistive Technologies Mr Muhammad FAROOQ
11:30	TH-M1.4 - 180: Mirror Scanners for Panoramic Millimetre Wave Radars Dr Graham BROOKER	TH-M2.4 - 282: NovaSAR-1 Operational Updates and its Analysis Ready Data Production Dr Zheng-Shu ZHOU	<i>TH-M3.4</i> - 277: Development of an Open- Source Tool for Consistent Comparisons of Geolocation Algorithms Dr Nicholas O'DONOUGHUE	TH-M4.4 - 268: Fast classification of drones and birds with an LSTM network applied to 1D phase data Dr Samiur RAHMAN
11:50		<i>TH-M2.5</i> - 295: Deep learning for three dimensional SAR imaging from limited viewing angles Dr Jan Rainer JAMORA	<i>TH-M3.5 -</i> 75: Clutter Modeling and Analysis for Bistatic Space-Based Early Warning Radar with GEO Transmitter and LEO Receiver Dr Xingjia YANG	
12:10	Lunch Break	Lunch Break	Lunch Break	Lunch Break
	Cockle Bay : TH-A1 Innovative Radar Systems 2 Sponsored by BAE Systems Session Chairs: Nathan Goodman & Hugh Griffiths	C3.2 : TH-A2 [Special Session] OTH Radar Session Chairs: Van Khanh Nguyen & Thayananthan Thayaparan	C3.4 : TH-A3 Radar Environment and Phenomenology Session Chairs: Ben Wilcox & Mateusz Malanowski	C3.5 : TH-A4 [Special Session] Radar Intelligent Processing Session Chairs: Lan Lan & Guolong Cui

13:20	BAE Systems Industry Talk	<i>TH-A2.1</i> - 85: Ionospheric variance models: impacts on over-the-horizon radar performance prediction A/Prof Manuel CERVERA	TH-A3.1 - 41: New results on the Weibull distribution and Weibull sums, with application to radar sea clutter Dr Josef ZUK	TH-A4.1 - 98: Multi-polarization Features Fusion Detection of Marine Small Targets based on LSTM Ms Yumiao WANG
13:40	TH-A1.2 - 307: An Investigation Of Turbulence Driven Evaporative Duct Modelling Dr Hedley HANSEN	TH-A2.2 - 121: Compensational Clutter Mitigation for Periodic Modified BFSK Waveforms in HF OTHR Dr Ben A JOHNSON	TH-A3.2 - 163: Doppler Characteristics of Sea Clutter at K-band and W-band: Results from the St Andrews and Coniston Water Trials Dr Samiur RAHMAN	TH-A4.2 - 286: Deep Learning for Radar Waveform Design: Retrospectives and the Road Ahead Dr Vishal MONGA
14:00	TH-A1.3 - 141: Combining Radar Acoustic Sounding and Schlieren Imaging to Quantify Close-in Air Turbulence Ms Samantha GORDON	 TH-A2.3 - 120: Over-The-Horizon Radar Frequency Management System using the Assimilation Canadian High Arctic Ionospheric Model (ACHAIM) Dr Thayananthan THAYAPARAN 	TH-A3.3 - 25: Measurements of foliage attenuation using a drone Mr Stéphane SAILLANT	TH-A4.3 - 316: DNN-based Beamforming for Mainlobe Interference Mitigation Lan Lan
14:20	TH-A1.4 - 153: Latest Airborne Imaging System Development and Capacities in ONERA Mr Remi BAQUE	<i>TH-A2.4</i> - 294: Mitigating range-ambiguous clutter impact in pseudo-aperiodic waveforms using adaptive processing Dr Sandun KODITUWAKKU	<i>TH-A3.4</i> - 192: Area Preserving Linear Transformations and Spread Doppler Clutter Mitigation in Over-the-Horizon Radar Dr Stephen HOWARD	<i>TH-A4.4 -</i> 320: Intelligent Suppression of Interferences Based on Retroactive-DQN Lan Lan

14:40	TH-A1.5 - 74: A Drone-Based 0.7-4.7 GHz FMCW Radar System for High-Resolution Exploration of Subsurface Glacier Structures Mr Michael STELZIG	<i>TH-A2.5</i> - 341: iFURTHER Project - A Cognitive Network of HF Radars for Europe Defence Mr Stéphane SAILLANT	TH-A3.5 - 150: Amplitude Distribution of Low Grazing Angle G-band Littoral Sea Clutter Mr Aleksanteri VATTULAINEN	TH-A4.5 - 340: Graph Data and GCN Based Maritime Target Detection of Multi- frame Scanning Radar Lan Lan
15:00				
15:30		Closing Drinks	with INDOPAC	
16:30				

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		Friday, 10 N	ovember 2023	
	C3.2	C3.3	C3.4	C3.5
	FR-M1	FR-M2	FR-M3	FR-M4
08:00	Computational Methods in Radar Imaging Dr Petros Boufounos and Dr Hassan Mansour	Deep Learning for Advanced Radar Automatic Target Recognition (ATR) Dr Uttam Majumder	PCL radar – from theory to operational radar systems and future applications Prof Mateusz Malanowski, Dr Steffen Lutz and Prof Piotr Samczynski	Design, Simulation, Analysis, and Testing of Radar Systems Mr Sumit Garg, Mr Satish Thoklala and Dr Ying Chen
09:45	Morning Tea Break	Morning Tea Break	Morning Tea Break	Morning Tea Break
10:15	Computational Methods in Radar Imaging Dr Petros Boufounos and Dr Hassan Mansour	Deep Learning for Advanced Radar Automatic Target Recognition (ATR) Dr Uttam Majumder	PCL radar – from theory to operational radar systems and future applications Prof Mateusz Malanowski, Dr Steffen Lutz and Prof Piotr Samczynski	Design, Simulation, Analysis, and Testing of Radar Systems Mr Sumit Garg, Mr Satish Thoklala and Dr Ying Chen
12:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break