

◆ MONDAY – APRIL 23, 2018 – COX CONVENTION CENTER – 2ND FLOOR

0800 – 1700	Exhibit Setup – <i>Ballrooms D/E</i>	
0800 – 1200	Morning Tutorials (T-01 through T-06)	Instructors
	T-01 – Part 1 – Introduction to Airborne Radar – <i>Meeting Room 15</i>	Prof. Hugh Griffiths Prof. Chris Baker
	T-02 – Introduction to Synthetic Aperture Radar – <i>Meeting Room 16</i>	Dr. Armin Doerry
	T-03 - Radar Detection, Performance Analysis, and CFAR Techniques <i>Meeting Room 17</i>	Prof. Antonio DeMaio Prof. Augusto Aubry
	T-04 – Noise Radar Technology and Noise Waveform Design – Prospective Solution for Future SISO and MIMO Systems – <i>MR14</i>	Prof. Krzysztof Kulpa Prof. Mateusz Malanowski
	T-05 - New Trends on Phased Array Radars and Calibration – <i>MR 18</i>	Dr. Jorge Salazar Dr. Caleb Fulton
	T-06 - Signal Propagation, Modeling, and Phenomenology for Monostatic, Bistatic, and Multi-static Radar Systems – <i>Meeting Rm 19</i>	Dr. Julie Jackson
1300 - 1700	Afternoon Tutorials (Part 2 of T-01 and T-07 through T-12)	Instructors
	T-01 – Part 2 – Introduction to Airborne Radar – <i>Meeting Room 15</i>	Prof. Hugh Griffiths Prof. Chris Baker
	T-07 – Advanced Radar Detection and Applications – <i>Meeting Room 16</i>	Dr. Scott Goldstein, Dr. Wil Myrik, Dr. Mike Picciolo
	T-08 – Electronic Scanned Array (ESA) Design – <i>Meeting Room 14</i>	Mr. John Williams
	T-09 - Cognitive Radar - Theory to Practice – <i>Meeting Room 17</i>	Dr. Graeme Smith Dr. Kristine Bell
	T-10 – Signal Processing for Passive Radar – <i>Meeting Room 18</i>	Dr. Hongbin Li, Dr. Braham Himed, Dr. Yimin Zhang
	T-11 - Adaptive Array Antennas - Principles and Applications – <i>MR19</i>	Dr. Randy Haupt Dr. Mark Leifer
	T-12 – Bistatic and Multistatic Radar Imaging – <i>Meeting Room 20</i>	Dr. Marco Martorella Dr. Brian Rigling
1800 – 2000	Welcome Reception – OKC Petroleum Club (Chase Tower 34 th Floor), John W. Nichols Room	

Tuesday – April 24, 2018 – Cox Convention Center – 2nd Floor

0730 – 0900	General Attendee and Speaker Breakfast – <i>Ballroom C</i>
0840 – 0900	Speakers to meet with Sessions Chairs – <i>Ballroom C reserved tables</i>
0730 – 0900	Companion Breakfast (AKA Spousal Breakfast) – <i>MR14 (Cox Convention Center – 2nd Floor)</i>
0900 – 0915	Welcome/Opening Remarks – Nathan Goodman and Mark Yeary, Conference Chairs – <i>Ballrooms A/B</i>
0915 – 0930	Tech. Program Overview – Shannon Blunt and Bob Palmer, Tech Program Chairs – <i>Ballrooms A/B</i>
0930 – 1025	Plenary Talk – Drs. Mark Weber and Dusan Zrnic, NOAA – <i>Ballrooms A/B</i>
1025 – 1120	Plenary Talk - Dr. Tom Rondeau, DARPA – <i>Ballrooms A/B</i>

Tuesday – April 24, 2018 - Continued

1120 - 1220 BREAK and POSTER SESSION 1 – Exhibit Hall (Ballrooms D/E)

Imaging Radar – Ballrooms D/E – Session Chairs: Aaron Jones/Shannon Blunt

Poster Display	ID	Title and Authors
Row 1 (1-1)	4017	An Algorithm for Persistent Imaging of Curvilinear Video SAR <i>Ruizhi Hu, Rui Min, Feng Zuo, Yiming Pi</i>
Row 1 (1-2)	4027	Symmetrical Logarithmic Frequency Diverse Array for Target Imaging <i>Yi Liao, Wen-Qin Wang, Huaizong Shao</i>
Row 1 (1-3)	4096	Stochastic Radiation Radar Imaging Based on the 2-D Amplitude-Phase Orthogonal Distribution Array <i>Deqing Mao, Yin Zhang, Yongchao Zhang, Yulin Huang, Jianyu Yang</i>
Row 1 (1-4)	4132	A New Full-Aperture Algorithm for Squint TOPSAR Based on Nonlinear Range Walk Correction - <i>Si Chen, Yue Yuan, Huichang Zhao, Shuning Zhang, Baiqing Zhu</i>
Row 1 (1-5)	4138	Multi-View SAR ATR Based on Networks Ensemble and Graph Search <i>Jifang Pei, Yulin Huang, Weibo Huo, Yuan Xue, Yin Zhang, Jianyu Yang</i>
Row 1 (1-6)	4183	Target Recognition for SAR Images Based on Heterogeneous CNN Ensemble <i>Yuan Xue, Jifang Pei, Yulin Huang, Jianyu Yang, Yin Zhang</i>
Row 1 (1-7)	4189	Fast Back-Projection Autofocus for Linear Array SAR 3-D Imaging via Maximum Sharpness <i>Shunjun Wei, Liming Zhou, Xiaoling Zhang, Jun Shi</i>
Row 1 (1-8)	4199	An Accurate Oil Slick Detection Method for SAR Images <i>Qian Zhang, Yulin Huang, Jifang Pei, Junjie Wu, Haiguang Yang, Jianyu Yang</i>
Row 2 (2-1)	4292	Joint Interrupted SAR Imaging and Coherent Change Detection Using Markov Random Fields - <i>Yue Yang, Guan Gui, Xuejing Zhang, Keyu Long, Zhenzhu Zha, Qun Wan</i>
Row 2 (2-2)	4293	ISAR Imaging for Low Earth-Orbit Target Based on Time-Frequency-Rate Representation with Cross-Term Suppression <i>Yuhan Du, Yicheng Jiang, Zitao Liu, Wei Zhou</i>
Row 2 (2-3)	4395	A Fast Three-Dimensional Frequency-Domain Back Projection Imaging Algorithm Based on GPU - <i>Liming Pu, Xiaoling Zhang, Peng Yu, Shunjun Wei</i>
Row 2 (2-4)	4403	Range Direction Focusing Method Based on Single-Snap MUSIC for SAR Imaging <i>Liang Li, Xiaoling Zhang, Jun Shi, Shunjun Wei</i>
Row 2 (2-5)	4442	Calibration of Gain-Phase and Synchronization Errors for Microwave Staring Correlated Imaging with Frequency-Hopping Waveforms - <i>Chao Tian, Bo Yuan, Dongjin Wang</i>
Row 2 (2-6)	4460	Map-Drift Autofocus and Scene Stabilization for Video SAR <i>Robert Linnehan, John Miller, Ayman Asadi</i>
Row 2 (2-7)	4476	A Beam Segmentation Based 2-Step Polar Format Algorithm for Highly Squinted SAR <i>Xin Nie, Shijian Shen, Guoqiang Guo, Long Zhuang</i>
Row 2 (2-8)	4501	Space Variant-Based Sparse Regularization Super-Resolution Imaging Method for Forward-Looking Scanning Radar - <i>Ke Tan, Yulin Huang, Wenchao Li, Yongchao Zhang, Qian Zhang...</i>
Spectrum Sharing 2 - Ballrooms D/E – Session Chairs: Aaron Jones/Shannon Blunt		
Row 3 (3-4)	4024	Dual-Function FDA MIMO Radar-Communications System Employing Costas Signal Waveforms <i>Shadrack Yaw Nusenu, Wen-Qin Wang</i>
Row 3 (3-5)	4093	A Dual-Function Radar-Communication System Using FDA <i>Shilong Ji, Hui Chen, Quan Hu, Ye Pan, Huaizong Shao</i>
Row 3 (3-6)	4172	Interference Protection Criteria Simulation <i>Robert Achatz</i>
Row 3 (3-7)	4240	Physically Realizing an Optimized Sparse Spectrum via Joint Design of a Collection of FM Waveforms - <i>Peng Seng Tan, James Stiles, Shannon Blunt</i>
Row 3 (3-8)	4313	Shared-Spectrum Multistatic Radar: Experimental Demonstration Using FM Waveforms <i>Patrick McCormick, Shannon Blunt</i>

Tuesday – April 24, 2018 - Continued

1220 – 1320	LUNCH – Ballroom C	
1220 – 1350	WOMEN IN ENGINEERING LUNCH – Meeting Rooms 14/15 (Prior RSVP required for lunch)	
1320 – 1500	SAR 1 – Meeting Rooms 16/17 - Session Chairs: Julie Jackson / Mark Davis	
	ID	Title and <i>Authors</i>
	4119	Insights Into SAR Signatures for Target Acceleration Maneuvers <i>David Garren</i>
	4250	Polarimetric SAR Compressive Sensing Examples <i>Julie Jackson, Forest Lee-Elkin</i>
	4349	Inverse Synthetic Aperture Radar Imaging Exploiting Dictionary Learning <i>Changyu Hu, Ling Wang, Otmar Loffeld</i>
	4066	Forward-Scatter Bistatic Range Resolution with Demonstrated Results <i>William Dower, Mark Yeary</i>
4231	Range Migration Algorithm for Bistatic SAR <i>Viet Thuy Vu, Mats Pettersson</i>	
1320 – 1500	Radar Waveform Design – Ballroom A - Session Chairs: Nathan Goodman / Karl Erik Olsen	
	4030	Waveform Design for Doubly Spread Targets Detection <i>Zhengan Zhu, Steven Kay, R.S. Raghavan</i>
	4237	Optimized Complementary Waveform Subsets Within an FM Noise Radar CPI <i>Charles Mohr, Patrick McCormick, Shannon Blunt</i>
	4166	Improved 2-Class Target Classification Performance Using Radar Waveform Design <i>Sultan Alshirah, Bernard Mulgrew</i>
	4472	Slow-Time Waveform Design for MIMO GMTI Radar Using CAZAC Sequences <i>Nathan Madsen, Siyang Cao</i>
4335	Nonlinear Frequency Modulation Using Fourier Sine Series - <i>David Hague</i>	
1320 – 1500	Innovative Weather Radar Systems & Applications (Invited Speakers)– Ballroom B Session Chair: Tian You Yu	
	4196	Airborne Polarimetric Doppler Weather Radar: Performance Enhancement Using AESA Technology - <i>Jothiram Vivekanandan, Eric Loew, Pei-Sang Tsai, Wen-Chau Lee, James Moore</i>
	4260	DFW Urban Radar Network Observations of Floods, Tornadoes and Hail Storms <i>V. Chandrasekar, Haonan Chen, Brenda Philips</i>
	4281	Evaluation of Phased-Array Weather-Radar Polarimetry at X-Band <i>William Heberling, Stephen Frasier</i>
	4421	Radar Concepts for the Next Generation of Spaceborne Observations of Cloud and Precipitation Processes - <i>Simone Tanelli, Ziad Haddad, Eastwood Im, Stephen Durden,...</i>
4452	Advances and Applications in Low-Power Phased Array X-Band Weather Radars <i>Pavlos Kollias, David McLaughlin, Stephen Frasier, Mariko Oue, Edward Luke, Alexander S...</i>	
1320 – 1500	Beamforming / DOA Estimation – Meeting Rooms 19/20 - Session Chairs: Joe Fabrizio / Dan Scholnik	
	4258	Deterministic CRB and Manifold Ambiguity Analysis for Polarization Sensitive Arrays <i>Chunlei Zhao, Xingpeng Mao, Yunlong Yang, Changjun Yu</i>
	4028	Adaptive Beamforming Algorithms Performance Evaluation for Active Array Radars <i>Valerio Tocca, Domenico Vigilante, Luca Timmoneri, Alfonso Farina</i>
	4202	A Reiterative Superresolution Approach for Direction of Arrival Estimation with Sparse Arrays - <i>Hatim Alqadah, Dan Scholnik</i>
	4268	Coarray BeamSpace Transformation Based DOA Estimation for Uniform Circular Arrays <i>Yanan Ma, Xiangrong Wang, Xianbin Cao</i>
4447	Optimum Sparse Array Beamforming for General Rank Signal Models <i>Syed Ali Hamza, Moeness Amin, Giuseppe Fabrizio</i>	

Tuesday April 24, 2018 - Continued

1500 – 1600		
BREAK AND POSTER SESSION 2 – <i>Exhibit Hall (Ballrooms D/E)</i>		
<i>Passive Radar – Ballrooms D/E - Session Chairs: Fabiola Colone / William Blake</i>		
Poster Display	ID	Title and Authors
Row 1 (1-1)	4235	Geolocation with FDOA Measurements via Polynomial Systems and RANSAC <i>Karleigh Cameron, Daniel Bates</i>
Row 1 (1-2)	4245	In-Field Calibration of Passive Array Receiver Using Detected Target <i>Jamie Huang, Landon Garry, Graeme Smith, Danny Tan</i>
Row 1 (1-3)	4274	L1 LMS Theoretical Tap-Weight Vector Update - Derivation and Simulation Results <i>Michael Callahan, Brian Rigling, Muralidhar Rangaswamy</i>
Row 1 (1-4)	4287	Passive Localization for an Emitter Based on Periodic Signal <i>Tao Zhou, Wei Yi, Fangxiang Chen, Lingjiang Kong</i>
Row 1 (1-5)	4330	Effects of Position Uncertainty on Passive Multistatic SAR Resolution Measures <i>Duy Nguyen, Julie Jackson</i>
Row 1 (1-6)	4376	Correction of Range Cell Migration with FIR Filter for Passive Radar <i>Mateusz Malanowski, Krzysztof Kulpa</i>
Row 1 (1-7)	4377	Passive Direct Position Determination of Multiple Emitters Transmitting Unknown LFM Signals <i>Fangxiang Chen, Tao Zhou, Wei Yi, Lingjiang Kong, Bowen Zhai</i>
Row 1 (1-8)	4378	Passive Direct Positioning of Emitters with Unknown LFM Signals Based on FRFT <i>Fangxiang Chen, Tao Zhou, Wei Yi, Lingjiang Kong, Shisheng Guo</i>
Row 2 (2-1)	4451	Generalized Wirtinger Flow for Passive Polarimetric Reconstruction of Extended Dipole Targets - <i>Bariscan Yonel, Il-Young Son, Birsen Yazici</i>
<i>Radar & Remote Sensing Applications 2 - Ballrooms D/E - Session Chairs: Fabiola Colone / William Blake</i>		
Row 2 (2-5)	4120	Design Considerations for a Shipboard MIMO Radar for Surface Target Detection <i>Jonathan Bathurst, Mostafa Hefnawi, Joey Bray, Yahia Antar</i>
Row 2 (2-6)	4180	A Combinatorial Double Auction Based Tasks Scheduling Approach for Multifunction Radar Network <i>Tuanwei Tian, Tianxian Zhang, Xiaoping Li, Na Li, Lingjiang Kong, Mengmeng Ge</i>
Row 2 (2-7)	4284	Crossover Analysis and Automated Layer-Tracking Assessment of the Extracted DEM of the Basal Topography of the Canadian Arctic Archipelago Ice-Cap - <i>Mohanad Al-ibadi, Jordan Sprick, Sravya Athinarapu, Victor Berger, T. Stumpf, J. Paden, C. Leuschen, F. Rodriguez ...</i>
Row 2 (2-8)	4433	High-Accuracy Distance Measurement Using Millimeter-Wave Radar <i>Muhammad Ikram, Adeel Ahmad, Dan Wang</i>
Row 3 (3-1)	4475	Time Delay Tags for Commercial Ground Penetrating Radars <i>Jordan Trewitt, Peter Hawrylak, Michael Keller</i>
<i>Waveform Diversity & Design - Ballrooms D/E - Session Chairs: Fabiola Colone / William Blake</i>		
Row 3 (3-4)	4004	Exhaustive Search for Optimal-PSL Quad-Phase Codes <i>Greg Coxson, Jon Russo</i>
Row 3 (3-5)	4047	Robust Waveform Design for Multi-Target Detection in Cognitive MIMO Radar <i>Li Wang, Yunlei Zhang, Qingmin Liao, Jun Tang</i>
Row 3 (3-6)	4187	ImPCFCRD for Noisy Multicomponent LFM Signals Analysis <i>Jibin Zheng, Honwei Liu, Jun Liu, Qinghuo Liu</i>
Row 3 (3-7)	4331	Hybrid Beamforming for Interference Mitigation in MIMO Radar <i>Hossein Chahrouh, Sreeraman Rajan, Richard Dansereau, Bhashyam Balaji</i>
Row 3 (3-8)	4347	Joint Optimization of Covariance Matrix and Antenna Position for MIMO Radar Transmit Beampattern Matching Design <i>Ziyang Cheng, Yanxi Lu, Zishu He, Yufeng Li, Jun Li, Xi Luo</i>

Tuesday - April 24, 2018 - Continued

Radar Imaging 1 - Meeting Rooms 16/17 - Session Chairs: Marco Martorella / Victor Chen	
ID	Title and Authors
1600 - 1740	4498 Mitigation of Through-Wall Interference in Radar Images Using Denoising Autoencoders <i>Shelly Vishwakarma, Vahini Ummalaneni, Muhammad Shoaib Iqbal, Shobha Sundar Ram</i>
	4118 Estimation of Residual Motion Error in Airborne In SAR Based on Backprojection and Multisquint Techniques - <i>Ning Cao, Hyongki Lee, Evan Zaugg, Ramesh Shrestha, William ...</i>
	4149 On the Importance of Visual Explanation and Segmentation for SAR ATR Using Deep Learning - <i>Matijs Heiligers, Albert Huizing</i>
	4156 Joint Physical and Virtual STAP for Strong Ground Clutter Suppression and Imaging <i>Samuele Gelli, Alessio Bacci, Marco Martorella, Fabrizio Berizzi</i>
	4116 Passive Phaseless SAR Imaging - <i>Eric Mason, Birsen Yazici</i>
RF & Communications Convergence (Invited Speakers) - Ballroom A Session Chair: Dan Bliss	
1600 - 1740	4430 Let's Share CommRad: Co-Existing Communications and Radar Systems <i>Narueporn Nartasilpa, Sara Shahi, Ahmad Salim, Daniela Tuninetti, Natasha Devroye ...</i>
	4348 Spectrum Management and Advanced Receiver Techniques (SMART): Joint Radar-Communications Network Performance - <i>Andrew Herschfelt, Daniel Bliss</i>
	4343 A Power-Efficient Formulation of Tandem-Hopped Radar & Communications <i>Brandon Ravenscroft, Patrick McCormick, Shannon Blunt, Erik Perrins, Justin Metcalf</i>
	4479 Transmit/Receive Beamforming Design for Joint Radar and Communications Systems <i>Aboulnasr Hassanien, Braham Himed, Moeness Amin</i>
	4507 Architectures for Cooperative Radar--Communications: Average Vs. Generalized Likelihood Ratio Tests - <i>Christ Richmond, Prabahan Basu</i>
Phased Array Antennas & Radars - Ballroom B - Session Chairs: Ryan Riddolls / Caleb Fulton	
1600 - 1740	4036 An Airborne Radar Phased Array with Low Sidelobes and a Spoiled Beam - <i>Mark Leifer</i>
	4208 IMPACT Common Module and S-Band Planar Array Beamforming Measurements <i>Ted Hoffmann, Matilda Livadaru, Dana Jensen</i>
	4314 Phased Array Radar Cost Reduction Through the Use of Commercial RF Systems on a Chip <i>Rory Fagan, Frank Robey, Luke Miller</i>
	4484 Practical Two-Dimensional Antenna Arrays for High-Latitude Over-the-Horizon Radar Systems - <i>Ryan Riddolls</i>
	4037 Compact Superconducting Sub-Array Module for X-Band Phased Array Antenna <i>Kenta Iijima, Youhei Okada, Tsuyoshi Kumamoto, Tamio Kawaguchi, Hiroaki Ikeuchi ...</i>
Radar Signal Processing 1 - Meeting Rooms 19/20 - Session Chairs: Armin Doerry / Yimin Zhang	
1600 - 1740	4238 Multipath Doppler Difference Estimation in Over-the-Horizon Radar <i>Yimin D. Zhang, Braham Himed</i>
	4401 On the Impact of Fast-Time and Slow-Time Preprocessing Operations on Adaptive Target Detectors - <i>Gokhan Muzaffer Güvensen, Cagatay Candan</i>
	4466 Robust Sparse Fourier Transform Based on the Fourier Projection-Slice Theorem <i>Shaogang Wang, Vishal Patel, Athina Petropulu</i>
	4282 A Family of Random and Random Type Projections for Radar STAP <i>Pawan Setlur, Muralidhar Rangaswamy</i>
	4251 Sparse Subarray Design for Multitask Receivers <i>Anastasios Deligiannis, Moeness Amin, Giuseppe Fabrizio, Sangarapillai Lambotharan</i>
1740 - 1900	Exhibitor Reception - Exhibit Hall - Ballrooms D/E
1900 - 2215	Radar Systems Panel Dinner (RSP Members w/prior RSVP only please) - Meeting Rooms 14/15

Wednesday - April 25, 2018

0700 - 0800	General Attendee and Speaker Breakfast - Ballroom C	
0740 - 0800	Speakers to meet with Sessions Chairs - Ballroom C reserved tables	
0730 - 0900	Companion Breakfast (AKA Spousal Breakfast) - MR14 (Cox Convention Center - 2nd Floor)	
0800 - 0940	Passive Radar 1 - Meeting Rooms 16/17 - Session Chairs: Hugh Griffiths / Alfonso Farina	
	ID	Title and Authors
	4137	Cancelling Strong Doppler Shifted Returns in OFDM Based Passive Radar <i>Stephen Searle, Daniel Gustainis, Brendan Hennessy, Robert Young</i>
	4154	Electronic Attacks on DVB-T-Based Passive Radar Systems <i>Christof Schüpbach, Daniel O'Hagan, Stephen Paine</i>
	4362	Signal Reconstruction of DVB-T2 Signals in Passive Radar <i>Daniel O'Hagan, Motlatsi Setsubi, Stephen Paine</i>
	4389	Passive Radar Large Clutter Discrete Removal - <i>James Lievsay, Nathan Goodman</i>
	4088	Automatic Target Classification in Passive ISAR Range-Crossrange Images <i>Andrea Manno-Kovacs, Elisa Giusti, Fabrizio Berizzi, Levente Kovács</i>
0800 - 0940	Waveform Diversity 1 - Ballroom A - Session Chairs: Laura Anitori / Phil Pace	
	4009	MOCS Cliques and Complementary Code Set Construction <i>Greg Coxson, William Haloupek</i>
	4320	Waveform-Diverse Stretch Processing - <i>Dana Hemmingsen, Patrick McCormick, Shannon Blunt, Christopher Allen, Anthony Martone, Kelly Sherbondy, David Wikner</i>
	4157	Spectrally Compact SFSK Radar Waveforms <i>Miroslav Hekrdla, Petra štukovská</i>
	4454	Extending CW Radar Unambiguous Detection Range Using a Modified Frank Code <i>Dongjin Yeom, Phillip Pace</i>
	4160	Doppler Ambiguity Resolution Using Random Slow-Time Code Division Multiple Access MIMO Radar with Sparse Signal Processing - <i>Wim van Rossum, Laura Anitori</i>
0800 - 0940	Radar Components & Subsystems - Ballroom B Session Chairs: John Stralka / Lorenzo Lo Monte	
	4062	A Broadband (10-20 GHz) Lightweight Receive Module on Multilayer LCP Technology for Radar Applications - <i>Michael Craton, Vincens Gjokaj, Chris Oakley, Brian Wright, John Al...</i>
	4161	Radar & Additive Manufacturing Technologies: the Future of Internet of Things (IoT) <i>Jimmy Hester, John Kimionis, Ryan Bahr, Wenjing Su, Bijan Tehrani, Manos Tentzeris</i>
	4361	X-Band GaN High Power Amplifier with Integrated Power Switch for Airborne Applications <i>Aaron Pereira, Said Al-Sarawi, Neil Weste, Derek Abbott, Jutta Kuhn, V. Carrubba, R. Quay</i>
	4463	A High PAE, Highly Integrated, Low-Cost 500W Pulsed S-Band GaN IMFET Power Amplifier <i>Bo Zhao, Brian Henricksen, Raj Santhakumar</i>
	4494	Board-Level Rapid-Prototyping Shielding for Radio Frequency Transmission Lines <i>John Zumbro, Alan Mantooth, William Kuhn, Josh Welch, Todd Rider, Ambrose Wolf</i>
0800 - 0940	Weather Radar - Meeting Rooms 19/20 - Session Chairs: Bob Palmer / James Kurdzo	
	4178	Dual-Pol Radar Measurements of Hurricane Irma and Comparison of Radar QPE to Rain Gauge Data - <i>Qing Cao, Michael Knight, Youcun Qi</i>
	4280	Concept for a Passive Multistatic UAV-Borne Weather Radar <i>Andrew Byrd, Robert Palmer, Caleb Fulton</i>
	4436	Salient Features of the CSU Sea-Pol Radar <i>Jim George, Venkatachalam Chandrasekar, Francesc Junyent, Steven Rutledge, A. Morin, ...</i>
	4481	A Low-Cost Mechanically-Steered Weather Radar Concept <i>Stefano Turso, Thomas Bertuch, Michael Jäger, Stephan Stanko, Peter Knott, Silke Trömel, ...</i>
	4057	Options for Polarimetric Variable Measurements on the MPAR Advanced Technology Demonstrator - <i>Igor Ivić</i>

Wednesday - April 25, 2018 - Continued

0940 - 1040 BREAK and POSTER SESSION 3 - Exhibit Hall (Ballrooms D/E)			
Radar System & Component Development - Ballrooms D/E Session Chairs: Hjalti Sigmarsson/Jennifer Palmer			
Poster Display	ID	Title	Authors
Row 1 (1-1)	4246	A UAS-Based Ultra-Wideband Radar System for Soil Moisture Measurements	<i>Shravan Kaundinya, Emily Arnold, Fernando Rodriguez-Morales, Ankur Patil</i>
Row 1 (1-2)	4338	Measurements of Snow Cover Using an Improved UWB 2-18 GHz Airborne Radar Testbed	<i>Fernando Rodriguez-Morales, Carlton Leuschen, Calen Carabajal, Ambrose Wolf, S. Garrison</i>
Row 1 (1-3)	4341	Time-Domain System Modeling and Applications for Multi-Function Array Radar Weather Measurements	<i>Zhe Li, Sudantha Perera, Yan Zhang, Guifu Zhang, Richard Doviak</i>
Row 1 (1-4)	4358	Performance Evaluation of Commercial GaN RF HEMTs As Hybrid Topology Power Switches	<i>Aaron Pereira, Said Al-Sarawi, Neil Weste, Derek Abbott, Vincenzo Carrubba, Ruediger Quay</i>
Row 1 (1-5)	4382	Design, Implementation and First Experimental Results of an X-Band Ubiquitous Radar System	<i>Fernando Ibañez Urzaiz, Álvaro Duque de Quevedo, Ana Martín Ayuso, Álvaro Gá...</i>
Row 1 (1-6)	4407	A DDS Approach to Simulate Velocity Profiles of Sport Projectiles for X-Band Doppler Radars	<i>Binjamin Barsch, Daniel O'Hagan, Robert Rust</i>
Row 1 (1-7)	4413	Design and Realization of an Airborne Sense & Avoid Radar Demonstrator	<i>Peter Feil, Dietmar Klarer, Stefan Beer, Fabian Schäfer, Michael Strasser</i>
Row 1 (1-8)	4495	Miniaturized P-Band Beamforming Synthetic Aperture Radar Transceiver	<i>Martin Perrine, Rafael Rincon, Steven Van Nostrand, Hanson Nguyen, Miguel Moe, Hjati ...</i>
Radar Signal/Data Processing - Ballrooms D/E Session Chairs: Hjalti Sigmarsson/Jennifer Palmer			
Row 2 (2-5)	4033	Frequency Agility Radar with Overlapping Pulses and Sparse Reconstruction	<i>Jabran Akhtar, Karl Erik Olsen</i>
Row 2 (2-6)	4101	Drones and Helicopters Classification Using Point Clouds Features from Radar	<i>Danilo Habermann, Eloi Dranka Junior, Yusef Caceres, Joao B. R. Do Val</i>
Row 2 (2-7)	4148	Sea-Clutter Region Extraction Based on Image Segmentation Methods for Over-the-Horizon Radar	<i>Taifeng Wu, Zhongtao Luo, Zishu He, Zhaoyi Wang, Xuyuan Chen</i>
Row 2 (2-8)	4218	Joint 2-D Angle and Doppler Frequency Estimation for Bistatic Co-Prime MIMO Radar	<i>Wei Xiong, Gong Zhang, Zhenni Peng</i>
Row 3 (3-1)	4241	Modified Generalized Sidelobe Canceller for MIMO Space-Time Adaptive Processing	<i>Xiang Zhao, Zishu He, Yikai Wang, Xuejing Zhang, Wei Zhang, Jichuan Li</i>
Row 3 (3-2)	4262	Structured Covariance Estimation for Airborne Radar STAP via Two Nuclear Norms	<i>Guohao Sun, Jie Tan, Zhaoyi Wang, Zishu He, Huiyong Li</i>
Row 3 (3-3)	4263	Sparse Recovery Based Moving Range-Spread Target Detection for Distributed Airborne MIMO Radar	<i>Guohao Sun, Jie Tan, Zishu He, Xiang Zhao, Chunlin Han</i>
Row 3 (3-4)	4290	Multi-Frame Detection Method for Distributed Radar Network	<i>Jinghe Wang, Wei Yi, Lingjiang Kong, Shisheng Guo</i>
Row 3 (3-5)	4379	Improved Capon Estimators for DOD and DOA Estimation in Large Array MIMO Radar: a Random Matrix Method	<i>Anqi Zhao, Hong Jiang, Song Li</i>
Row 3 (3-6)	4381	Drone Detection and Tracking Based on Phase-Interferometric Doppler Radar	<i>Michael Jian, Zhenzhong Lu, Victor Chen</i>
Row 3 (3-7)	4504	Interference Detection in FMCW Radar Using a Complex Baseband Oversampled Receiver	<i>Sriram Murali, Karthik Subburaj, Brian Ginsburg, Karthik Ramasubramanian</i>
Row 3 (3-8)	4506	Impacts of Hardware Nonlinearities on Compressive Sensing Performance	<i>Yujie Gu, Nathan Goodman</i>

Wednesday - April 25, 2018 - Continued

1040 - 1220	Cognitive Radar 1 - Meeting Rooms 16/17 - Session Chairs: Graeme Smith / Justin Metcalf	
	ID	Title and <i>Authors</i>
	4109	Robust Sensor Parameter Selection in Fully Adaptive Radar Using a Sigma-Point Gaussian Approximation - <i>Luis Úbeda-Medina, Ángel F. García-Fernández, Jesús Grajal</i>
	4150	Fully Adaptive Radar for Track Update-Interval Control <i>Jonas Myhre Christiansen, Karl Erik Olsen, Graeme Smith</i>
	4216	Target Recognition with Adaptive Waveforms in Cognitive Radar Using Practical Target RCS Responses - <i>Jeanette Tan, Ric Romero, David Jenn</i>
	4467	Machine Learning Based Cognitive Radar Resource Management <i>Mahdi Shaghaghi, Raviraj S. Adve</i>
	4434	Fully Adaptive Radar Cost Function Design <i>Adam Mitchell, Graeme Smith, Kristine Bell, Andrew Duly, Muralidhar Rangaswamy</i>
1040 - 1220	Distributed / Bistatic Radar - Ballroom A - Session Chairs: Scott Goldstein / Braham Himed	
	4247	Effects of Time Alignment Errors in Coherent Distributed Radar <i>Pratik Chatterjee, Jeffrey Nanzer</i>
	4113	Clutter Suppression for Bistatic GMTI Using Along-Track Interferometry <i>Ross Deming, Chad Knight</i>
	4221	BSAR Ambiguity Function Analysis and Design in K-Space Using Curvature and Torsion <i>John Summerfield, Dayalan Kasilingam</i>
	4152	An Efficient Localization Method Using Bistatic Range and AOA Measurements in Multistatic Radar - <i>Zhaotao Qin, Jun Wang, Shaoming Wei</i>
4468	MIMO-STAP Based Cognitive Design of Transmitted Waveforms and Receive Filters for Clutter Suppression - <i>Jie Li, Guisheng Liao, Yan Huang, Jingwei Xu, Yijian Xiang, Arye Nehorai</i>	
1040 - 1220	Radar Phenomenology & Clutter - Ballroom B Session Chairs: Simon Watts / Scott Coutts	
	4077	Using Controlled Measurements of Canonical Scatterers to Evaluate Various Polarimetric Decompositions - <i>Paul Sotirelis, Elizabeth Sudkamp, Sean Gilmore, A. Nolan, M. Saville, B Fox</i>
	4167	Sea Surface Scattering of Hurricane Maria Remnants Using Bistatic Passive Radar with S-Band Satellite Illumination - <i>Jeffrey Ouellette, David Dowgiallo</i>
	4431	Wind Turbine Measurements and Scattering Model Validation in the High Frequency Band (3-30 MHz) - <i>Scott Coutts, Jennifer Eisenman, Jen King Jao, Serafin Rodriguez, William Lee</i>
	4458	Measurements and Modelling of Radar Signatures of Large Wind Turbine Using Multiple Sensors - <i>Waleed Al-Mashhadani, Anthony Brown, Laith Danoon, Colin Horne, R. Palamà ...</i>
	4457	Radar Coverage Over Irregular Terrain: a Practical Algorithm for Multipath Propagation <i>Andrea Carolina Flores Rodriguez, Fernando Almeida, Gustavo Tejerina, Gustavo Fraidenr...</i>
1040 - 1220	Automotive Radar 1 - Meeting Rooms 19/20 Session Chairs: Igal Bilik / Faruk Uysal	
	4007	A More Exact Linear FMCW Radar Signal Model for Simultaneous Range-Velocity Estimation <i>Peter Asuzu, Charles Thompson</i>
	4151	Mitigation of Automotive Radar Interference <i>Faruk Uysal, Sasanka Sanka</i>
	4076	Doppler Ambiguity Resolving in TDMA Automotive MIMO Radar via Digital Multiple PRF <i>Ilya Shapir, Igal Bilik, Gonen Barkan</i>
	4091	Distribution-Based Iron Road Structure Recognition Method Using Automotive Radar Sensor <i>Seongwook Lee, Seong-Cheol Kim</i>
4144	Automotive Multi-Mode Cascaded Radar Data Processing Embedded System <i>Igal Bilik, Shahar Villeval, Daniel Brodeski, Haim Ringel, Oren Longman, Piyali Goswami, ...</i>	
1220 - 1320	LUNCH - Ballroom C	

Wednesday - April 25, 2018 - Continued

1320 - 1500	Radar Imaging 2 - Meeting Rooms 16/17 - Session Chairs: Brian Rigling / Mark Govoni	
	ID	Title and Authors
	4194	An Empirical Look at Cross-Target Correlation in Bistatic SAR Images <i>Ellen Laubie, Brian Rigling, Robert Penno</i>
	4496	Model Order Estimators Using Optimal and Suboptimal Methods with Numerical Tuning <i>Sravva Athinarapu, John Paden, Mohanad Al-ibadi, Theresa Stumpf</i>
	4162	Forward-Looking Super-Resolution Radar Imaging via Reweighted L1-Minimization <i>Hyukjung Lee, Joohwan Chun, Sungchan Song</i>
	4304	Separation of Radio-Frequency Interference from SAR Signals via Dictionary Learning <i>Lam H. Nguyen, Trac Tran</i>
	4271	Bayesian Azimuth Angular Superresolution Algorithm for Forward-Looking Scanning Radar <i>Changlin Li, Yin Zhang, Deqing Mao, Yulin Huang, Jianyu Yang</i>
1320 - 1500	Dual-Function Radar & Communications- Ballroom A Session Chairs: Shannon Blunt / Cenk Sahin	
	4239	Multi-User Dual-Function Radar-Communications Exploiting Sidelobe Control and Waveform Diversity - <i>Ammar Ahmed, Yimin D. Zhang, Braham Himed</i>
	4311	Sparsity-Aware Adaptive Beamforming Design for IEEE 802.11ad-Based Joint Communication-Radar - <i>Preeti Kumari, Mohammed E. Eltayeb, Robert W. Heath Jr.</i>
	4303	OFDM-Based Automotive Joint Radar-Communication System <i>Sayed Hossein Dokhanchi, Bhavani Mysore Rama Shankar, Thomas Stifter, Björn Ottersten</i>
	4039	Impact of Power Amplifier Non-Linearities on Simultaneous RF Emissions from an Array <i>Nicholas O'Donoghue, John Outwater Jr.</i>
	4439	Reduced Complexity Maximum SINR Receiver Processing for Transmit-Encoded Radar-Embedded Communications - <i>Cenk Sahin, Justin Metcalf, Braham Himed</i>
1320 - 1500	Radar & Remote Sensing Applications - Ballroom B Session Chairs: Jorge Salazar / Fernando Rodriguez-Morales	
	4219	Moving Target Detection Under Sparse Foliage <i>Mark Davis</i>
	4342	Ice Surface and Bed Roughness Estimation of Petermann Glacier <i>Manjish Adhikari, Jilu Li</i>
	4402	Expert Reasoning Based Improvements to the GLRT <i>Nihad Alfaysale, Mansour Aljohani, Alex Burwell, Ethan Lin, Daniel Wetzel, Michael Wicks</i>
	4405	Landmine Internal Structure Detection from Ground Penetrating Radar Images <i>Federico Lombardi, Hugh Griffiths, Alessio Balleri</i>
	4419	Sentinel-1 Spatially Varying Maximum-Likelihood Coherent Change Detection <i>James Martin, Kevin Dobbs, Frederick Koehler</i>
1320 - 1500	Learning Techniques for Radar Signal Processing (Invited Speakers) - Meeting Rooms 19/20 Session Chairs: Lam Nguyen / Trac Tran	
	4080	Robust and Hyperparameter-Free RFI Mitigation via L1,2 -PLAD and Group SPICE <i>Jiaying Ren, Tianyi Zhang, Jian Li, Lam H. Nguyen</i>
	4201	Deep Network for Simultaneous Decomposition and Classification in UWB-SAR Imagery <i>Tiep Vu, Lam H. Nguyen, Tiantong Guo, Vishal Monga</i>
	4456	A Deblurring Algorithm for Impulse Based Forward-Looking Ground Penetrating Radar Images Reconstructed Using the Delay-and-Sum Algorithm - <i>John Anderson</i>
	4415	Generative Adversarial Networks for Recovering Missing Spectral Information <i>Dung Tran, Trac Tran, Lam H. Nguyen</i>
	4205	Generating High Quality Visible Images from SAR Images Using CNNs <i>Puyang Wang, Vishal Patel</i>
1500 - 1520	BREAK - Exhibit Hall (Ballrooms D/E)	

Wednesday - April 25, 2018 - Continued

1520 - 1700	Passive Radar 2 – Meeting Rooms 16/17 - Session Chairs: Pierfrancesco Lombardo / William Barott	
	ID	Title and Authors
	4459	Deep Learning for Waveform Estimation in Passive Synthetic Aperture Radar <i>Bariscan Yonel, Eric Mason, Birsen Yazici</i>
	4228	Performance Tradeoff in a Unified Multi-Static Passive Radar and Communication System <i>Batu Chalise, Braham Himed</i>
	4327	Effects of Atmospheric Refractivity and Variability on Passive Radar Performance Prediction <i>William Barott, Kevin Scott, Braham Himed</i>
	4426	Multistatic GNSS-Based Passive Radar for Maritime Surveillance with Long Integration Times: Experimental Results - <i>Fabrizio Santi, Federica Pieralice, Debora Pastina</i>
	4437	WiFi Emission-Based Vs Passive Radar Localization of Human Targets <i>Ileana Milani, Fabiola Colone, Carlo Bongioanni, Pierfrancesco Lombardo</i>
1520 - 1700	Waveform Diversity 2 – Ballroom A - Session Chairs: Joe Guerci / Eric Mokole	
	4146	Efficient Method for Cognitive Waveform Design in High Reverberant Environment <i>Wenyan Wei, Yinsheng Wei, Dehua Zhao</i>
	4318	Nonlinear Radar via Intermodulation of FM Noise Waveform Pairs <i>Jonathan Owen, Shannon Blunt, Kyle Gallagher, Patrick McCormick, Chris Allen, K. Sherbondy</i>
	4383	Site-Specific Performance Gain of Optimal MIMO Radar in Heterogeneous Clutter <i>Jameson Bergin, Joseph Guerci, David Kirk, Muralidhar Rangaswamy</i>
	4470	Information-Theoretic Compressive Measurement for Frequency Hopping Pattern Recognition - <i>Yujie Gu, Nathan Goodman</i>
	4332	Hybrid Spread Spectrum Orthogonal Waveforms for MIMO Radar <i>Hossein Chahrour, Sreeraman Rajan, Richard Dansereau, Bhashyam Balaji</i>
1520 - 1700	Millimeter Wave Radar Systems (Invited Speakers) – Ballroom B Session Chair: Duncan Robertson	
	4032	A High Frame Rate, 340 GHz 3D Imaging Radar for Security <i>Duncan Robertson, David Macfarlane, Robert Hunter, Scott Cassidy, Nuria Liombart, Erio ...</i>
	4045	Millimeter-Wave Solid-State Cloud and Precipitation Radars and Signal Processing <i>Andrew Pazmany, James Mead</i>
	4086	A W-Band Comet-Jet Doppler Radar Prototype <i>Ken Cooper, Raquel Monje, Maria Alonso-Delpino, Robert Dengler, C. Cochrane, S. Durden, ...</i>
	4134	A Scalable W-Band Imaging Radar Development Platform - <i>Charles Rhoads, Darren Goshi</i>
	4499	ViSAR: a 235 GHz Radar for Airborne Applications - <i>Seong Kim, Ryan Fan, Fred Dominski</i>
	1520 - 1700	Radar Signal Processing 2 – Meeting Rooms 19/20 - Session Chairs: Bill Correll, Jr. / James Stiles
4042		An Algorithm for Estimation of Wave Parameters from X-Band Marine Radar Images <i>Xinlong Liu, Weimin Huang, Eric W. Gill</i>
4346		Angle Estimation Using Super Resolution and Blocking Matrix in Stepped Multiple Frequency Complementary Phase Code Radar - <i>Manabu Akita, Takayuki Inaba</i>
4252		A New Structural Property of Costas Arrays <i>Bill Correll, Jr.</i>
4270		Multipath Model and Ghosts Localization for MIMO Through-Wall Radar <i>Shisheng Guo, Guolong Cui, Salvatore Iommelli, Xiaobo Yang, Haining Yang, Yang Zhang</i>
4099		A Variational Bayes Sparse Recovery of Migrating Targets in AR Noise <i>Rodolfo Augusto Serra Sammarco Branco, Stephanie Bidon</i>
1715 - 1745	Load Buses for Transportation to Banquet (Sheridan Ave Hotel Entrance between pool & spa)	
1800 - 2200	Reception/Museum Time/Banquet – National Cowboy and Western Heritage Museum	
2045	Buses begin transporting back to Venue (Final buses depart at 2200)	

Thursday - April 26, 2018

0700 - 0800	General Attendee and Speaker Breakfast - Ballroom C	
0740 - 0800	Speakers to meet with Sessions Chairs - Ballroom C reserved tables	
0730 - 0900	Companion Breakfast (AKA Spousal Breakfast) - MR14 (Cox Convention Center - 2nd Floor)	
0800 - 0940	Cognitive Radar 2 - Meeting Rooms 16/17 - Session Chairs: Ravi Adve / Kristine Bell	
	ID	Title and Authors
	4207	Resource Allocation for Multi-Variate Dynamic Gaussian Estimation <i>David Lucking, Nathan Goodman</i>
	4417	Equilibrium Radar-Target Interactions in an ATR Scenario: a Differential Game <i>Zachariah Fuchs, Justin Metcalf</i>
	4092	Cognitive Radar Parameter Optimization in a Congested Spectrum Environment <i>Roland Oechslin, Peter Wellig, Sebastian Hinrichsen, Sebastian Wieland, Uwe Aulenbacher,...</i>
	4488	Multifunctional Reconfigurable Antennas for Cognitive Radars <i>Ali Cafer Gurbuz, Bedri Cetiner</i>
	4170	A Comparison of Cognitive Approaches for Clutter-Distribution Identification in Nonstationary Environments - <i>Yijian Xiang, Malia Kelsey, Haokun Wang, Satyabrata Sen, ...</i>
0800 - 0940	Spectrum Sharing 1 - Ballroom A - Session Chairs: Augusto Aubry / William Melvin.	
	4041	Simultaneous Target Detection and Multi-User Communications Enabled by Joint Beamforming - <i>Fan Liu, Christos Masouros, Ang Li, Jianming Zhou, Lajos Hanzo</i>
	4329	Auto-Regressive Spectral Gap Filling Algorithms for Photonics-Based Highly Sparse Coherent Multi-Band Radars in Complex Scenarios - <i>Bilal Hussain, Antonio Malacarne, Salvatore Mar...</i>
	4275	Two-Dimensional Spectrum Sensing for Cognitive Radar <i>Augusto Aubry, Antonio De Maio, Mark Govoni</i>
	4319	Experimental Demonstration of Cognitive Spectrum Sensing & Notching for Radar <i>Jonathan Owen, Brandon Ravenscroft, Benjamin Kirk, Shannon Blunt, Chris Allen, A. Marto...</i>
	4276	Interference-Aware Power Allocation in OFDMA Radar <i>Sepehr Hadizadehmoghaddam, Farhad Yusufali, Raviraj S. Adve</i>
0800 - 0940	Tracking - Ballroom B - Session Chairs: Dale Blair / Alex Charlish	
	4126	State Estimation Using a Destination Constraint with Uncertainty <i>Keyi Li, Chang Zhou, Gongjian Zhou</i>
	4159	Forward Scatter and Bistatic Radar Tracking of People - <i>Wim van Rossum, Jacco de Wit</i>
	4206	Target Detection and Tracking via Sparsity-Promoting Tikhonov Regularization <i>Sergey Fridman, L.J. Nickisch, Mark Hausman, Michael Matthews</i>
	4266	Knowledge Based Anomaly Detection for Ground Moving Targets <i>Fotios Katsilieris, Alexander Charlish</i>
	4337	Maximum Likelihood Mixture Modeling for Three-Dimensional Non-Gaussian Measurements - <i>Benjamin Davis, William Blair</i>
0800 - 0940	Radar Learning Methods - Meeting Rooms 19/20 - Session Chairs: Sevgi Gurbuz / Dan Rabideau	
	4473	Understanding Deep Neural Networks Performance for Radar-Based Human Motion Recognition - <i>Moeness G. Amin, Baris Erol</i>
	4340	Micro-Doppler Based Human-Robot Classification Using Ensemble and Deep Learning Approaches - <i>Sherif Abdulatif, Qian Wei, Fady Aziz, Bernhard Kleiner, Urs Schneider</i>
	4217	Diversified Radar Micro-Doppler Simulations As Training Data for Deep Residual Neural Networks - <i>Mehmet Saygin Seyfioglu, Baris Erol, Sevgi Zubeyde Gurbuz, Moeness Amin</i>
	4485	An Ocean Clutter Suppression Method for OTHR by Combining Optimal Filter and Dictionary Learning - <i>Zhaoyi Wang, Shengnan Shi, Zishu He, Guohao Sun, Jian Cao</i>
	4249	Machine Learning Techniques for Frequency Sharing in a Cognitive Radar <i>Mario La Manna, Pietro Monsurrò, Pasquale Tommasino, Alessandro Trifiletti</i>
0940 - 1040	BREAK and POSTER SESSION 4- Exhibit Hall - Ballrooms D/E	

Thursday - April 26, 2018 - Continued

Array Signal Processing - Ballrooms D/E - Session Chairs: Pawan Setlur / Brian Cordill

Poster Display	ID	Title and Authors
Row 1 (1-1)	4049	Difference Phase Based Direction Finding for Single Incoherently Distributed Source with a Uniform Circular Array - <i>Zhengliang Dai, Weijia Cui, Daming Wang, Bin Ba, Chengcheng Liu</i>
Row 1 (1-2)	4070	Cramer-Rao Bound of Low Angle Estimation for VHF Monostatic MIMO Radar <i>Jun Tan, Zaiping Nie</i>
Row 1 (1-3)	4084	Improved Main-Lobe Cancellation Method for Space Spread Clutter Suppression in HFSSWR <i>Jiazhi Zhang, Weibo Deng, Xin Zhang, Qiang Yang</i>
Row 1 (1-4)	4108	Adaptive Monopulse Estimation in Mainlobe Jamming for Multistatic Radar <i>Yang Yang, Hongtao Su, Junsheng Huang, Qinzhen Hu, Shenghua Zhou</i>
Row 1 (1-5)	4110	On FDA RF Localization Deception Under Sum Difference Beam Reconnaissance <i>Liu Wang, Ye Pan, Wen-Qin Wang, Jingran Lin</i>
Row 1 (1-6)	4229	Effect of Phase Noise on Spatial Processing by Sensors with Independent Oscillators <i>Phuoc Vu, Alexander Haimovich, Braham Himed</i>
Row 1 (1-7)	4257	Direct Localization of Emitters Based on Expectation-Maximization Technique <i>Minqiu Chen, Xingpeng Mao, Chunlei Zhao</i>
Row 1 (1-8)	4264	A Novel Non-Optimized Method to Synthesize Dot-Shaped Range-Angle Beampattern for FDA - <i>Yezi Ma, Ping Wei, Huaguo Zhang, Hongshu Liao</i>
Row 2 (2-1)	4306	Mainlobe Jamming Suppression via Blind Source Separation <i>Mengmeng Ge, Guolong Cui, Xianxiang Yu, Datong Huang, Lingjiang Kong</i>
Row 2 (2-2)	4308	Sparse Representation Based DOA Estimation Using a Modified Nested Linear Array <i>Huiping Huang, Bin Liao, Chongtao Guo, Jianjun Huang</i>
Row 2 (2-3)	4322	The Mitigation of Multiple Jammers Using a Sidelobe Canceller Designed with Independently Configured Loops - <i>Hyundoo Shin</i>
Row 2 (2-4)	4384	Angular Estimation for Phased Array Surveillance Radars Considering Orthogonal Beamforming - <i>Gabriel Beltrao, Bruno Pompeo, Raffaella Cunha, Leandro Pralon, Mariana ...</i>
Row 2 (2-5)	4400	A Study on the Performance of a Complementary Auxiliary Antenna Pattern for Maisel Sidelobe Blanker - <i>Doğancan Dinler, Çağatay Candan, Sencer Koç</i>
Row 2 (2-7)	4441	DOA Estimation for Low Angle Targets Using Time Reversal in Frequency Domain Model <i>Xiaolu Zeng, Baixiao Chen, Minglei Yang</i>
Row 2 (2-8)	4492	Cognitive Adaptive Array Processing (CAAP) - its Time Has Come - <i>Eli Brookner</i>

Phased Array Antennas & Radars 2 - Ballrooms D/E - Session Chairs: Pawan Setlur / Brian Cordill

Row 3 (3-1)	4043	Development of Planar Active Phased Array Antenna for Detecting and Tracking Radar <i>Ki-Ho Kim, Hyun Kim, Dong-Yoon Kim, Sang-Keun Kim, Sang-Hyun Chun, ...</i>
Row 3 (3-2)	4052	Design of a Low-Profile Ultra-Wideband Antenna Array Based on Planar Dipole Elements <i>Bin Li, Jinping Zhang, Ye Deng, Zhipeng Zhou</i>
Row 3 (3-3)	4186	Antenna Deployment Method for Multistatic Radar in Dynamic Environment <i>Ziqin Wang, Tianxian Zhang, Yuanhang Wang, Yichuan Yang, Lingjiang ...</i>
Row 3 (3-4)	4339	Supporting of Cylindrical Polarimetric Phased Array Radar Development Using Configurable Phased Array Demonstrators (CPAD) - <i>Sudantha Perera, Zhe Li, Yan Zhang, Guifu Zhang</i>
Row 3 (3-5)	4422	Oblique Projection Based Array Response Control Algorithm and its Application to Pattern Synthesis - <i>Xuejing Zhang, Zishu He, Yue Yang, Xiang Zhao, Xuepan Zhang, Weilai...</i>
Row 3 (3-6)	4443	Active Antennas for Emerging X-Band RADAR Applications <i>Gaurav Menon, Robert McMorrow, David Corman</i>
Row 3 (3-7)	4446	Transparent Array for Simulation of Radar Targets with Full Angular Dynamics in Any Environment - <i>Charles Shipley, Donald Woods, Don Akamine</i>
Row 3 (3-8)	4448	Polarimetric Calibration Using the Computational Electromagnetics Approach <i>Djordje Mirkovic, Dusan Zrnic</i>

Thursday - April 26, 2018 - Continued

1040 - 1220	Biomedical Applications of Radar - Meeting Rooms 16/17	
	Session Chairs: Moeness Amin / Dan Bliss	
	ID	Title and Authors
	4315	Radar Classification of Human Gait Abnormality Based on Sum-of-Harmonics Analysis <i>Ann-Kathrin Seifert, Abdelhak M. Zoubir, Moeness G. Amin</i>
	4316	Short-Range Multi-Mode Continuous-Wave Radar for Vital Sign Measurement and Imaging <i>Avik Santra, Raghavendran Vagarappan Ulaganathan, Thomas Finke, Ashutosh Baheti, De...</i>
	4471	Vital Signs Monitoring of Multiple People Using a FMCW Millimeter-Wave Sensor <i>Adeel Ahmad, June Chul Roh, Dan Wang, Aish Dubey</i>
	4018	A 1-D Block Processing for Non-Invasive Detection of 2-D Cardiac and Respiratory Rates <i>Jean Eugene Piou, Krishna Naishadham, Aly E. Fathy</i>
	4359	Harmonics-Based Multiple Heartbeat Detection at Equal Distance Using UWB Impulse Radar <i>Yu Rong, Daniel Bliss</i>
1040 - 1220	Frequency Diverse Arrays - Ballroom A - Session Chairs: Chris Baker / Wen-Qin Wang	
	4114	General Receiver Design for FDA Radar <i>Ronghua Gui, Wen-Qin Wang, Huaizong Shao</i>
	4420	Bio-Inspired Techniques for Target Localization <i>Galen Reich, Michael Antoniou, Christopher Baker</i>
	4277	Fixational Eye Movement Radar: Random Spatial Modulation <i>Garrett Zook, Patrick McCormick, Shannon Blunt</i>
	4336	Frequency Diverse Array Offset Jitter for Range Ambiguity Resolution <i>Richard Walkerdine, Joseph Spencer, Aaron Jones</i>
	4094	Resolution Threshold of MUSIC Algorithm for FDA-MIMO Radar <i>Can Cui, Yisheng Yan, Wen-Qin Wang, Kuandong Gao, Hui Chen, Wen Wu</i>
1040 - 1220	Next Generation US National Operational Radar Concepts (Invited Speakers) - Ballroom B	
	Session Chairs: Mark Weber / Jeff Herd	
	4035	Can an MPAR Solution for SENSr Meet All Weather-Surveillance Mission-Critical Needs? <i>Sebastian Torres, Jami Boettcher, Christopher Curtis, Feng Nai, David Schvartzman</i>
	4075	Quantification of Radar QPE Performance Based on SENSr Network Design Possibilities <i>James Kurdzo, Emily Clemons, John Cho, Pamela Heinselman, Nusrat Yussouf</i>
	4125	Arrays at Commercial Timescales: Addressing Development and Upgrade Costs of Phased Arrays - <i>Benjamin Epstein, Roy H. Olsson III, Kyle Bunch</i>
	4429	Polarimetric Phased Array Calibration for Large-Scale Multi-Mission Radar Applications <i>Caleb Fulton, Jorge Salazar, Dusan Zrnic, Djordje Mirkovic, Igor Ivic, Dick Doviak</i>
	4462	Multifunction Phased Array Radar Advanced Technology Demonstrator Nearfield Test Results - <i>David Conway, David Du Russel, Alex Morris, Christine Parry</i>
1040 - 1200	Radar Detection - Meeting Room 19/20	
	Session Chairs: Luke Rosenberg / Muralidhar Rangaswamy	
	4298	A Modified Matrix CFAR Detector Based on Maximum Eigenvalue for Target Detection in the Sea Clutter - <i>Wenjing Zhao, Minglu Jin, Wenlong Liu</i>
	4124	Intelligent CFAR Detector for Non-Homogeneous Weibull Clutter Environment Based on Skewness - <i>Xin Zhang, Renli Zhang, Weixing Sheng, Xiaofeng Ma, Yubing Han, Jie Cui, F Kong</i>
	4046	Sparse Signal Separation Methods for Target Detection in Sea-Clutter <i>Luke Rosenberg, Brian Ng</i>
	4278	Adaptive RF Interference Canceller in High Dynamic Range Doppler Radar for Landmine Detection - <i>Yu Zhang, Dan Orfeo, Joe Keranen, Dryver Huston, Tian Xia</i>
1200	Exhibit Hall Closed	
1220 - 1320	Lunch - Ballroom C	

Thursday - April 26, 2018 - Continued

1320 - 1500	Software Defined Radar for Spectrum Interference Mitigation (Invited Speakers) – MRs 16/17	
	Session Chairs: Kelly Sherbondy / Anthony Martone	
	ID	Title and Authors
	4227	Radar Tools for Spectrum Assessment and Prediction <i>Anthony Martone, Kelly Sherbondy, Kyle Gallagher, Jake Kovarskiy, Ram Narayanan</i>
	4195	On the Use of Markov Decision Processes in Cognitive Radar: an Application to Target Tracking - <i>Ersin Selvi, Michael Buehrer, Anthony Martone, Kelly Sherbondy</i>
	4220	Cognitive Software Defined Radar: a Reactive Approach to RFI Avoidance <i>Benjamin Kirk, Kyle Gallagher, Jonathan Owen, Ram Narayanan, Anthony Martone, Kelly ...</i>
	4175	Frequency-Agile and Spectrally Sensitive Radar Transmitter Amplifier Optimizations <i>Charles Baylis, Robert J. Marks II, Lucilia Hays, Zachary Hays, Sarvin Rezayat, Christopher ...</i>
	4234	Practical Direct Digital Synthesis for Realizing High Frequency Signals from Low Frequency Domains - <i>Brian Rutherford, Cameron Lewis</i>
1320 - 1500	Waveform Diversity 3 - Ballroom A	
	Session Chairs: Dan Thomas / Dmitriy Garmatyuk	
	4409	Experimentation of an Adaptive and Autonomous RF Signaling Strategy for Detection <i>Aaron Jones, Colin Horne, Hugh Griffiths, Graeme Smith, Adam Mitchell, Peter John-Baptiste</i>
	4236	Optimal and Adaptive Mismatch Filtering for Stretch Processing <i>Lumumba Harnett, Dana Hemmingsen, Patrick McCormick, Shannon Blunt, Chris Allen, ...</i>
	4115	A Comparison Study of Radar Emitter Identification Based on Signal Transients <i>Shanzeng Guo, Robert White, Michael Low</i>
	4279	Spectrally-Efficient FM Noise Radar Waveforms Optimized in the Logarithmic Domain <i>Charles Mohr, Patrick McCormick, Shannon Blunt, Charles Mott</i>
	4323	Randomized OFDM Waveforms for Simultaneous Radar Operation and Asynchronous Covert Communications - <i>Dmitriy Garmatyuk, Patryk Giza, Nahlah Condict, Saba Mudaliar</i>
1320 - 1500	Radar System Development- Ballroom B	
	Session Chairs: James Day / Martie Goulding	
	4203	Technological Developments for a Space-Borne Orbital Debris Radar at 94 GHz <i>Mario Ramírez-Torres, Marta Ferreras Mayo, Clara Hernández, Carlos García-De-La-Cueva,...</i>
	4210	LiTE SAR, Ku-Band Synthetic Aperture Radar for Small Unmanned Air Vehicles <i>Janusz Majewski, James Melody, Andrew Messier</i>
	4353	Ultra-Wideband Synthesis for High-Range Resolution Software Defined Radar <i>Samuel Prager, Tushar Thrivikraman, Mark Haynes, John Stang, David Hawkins, Mahta M ...</i>
	4480	Beamforming P-Band Synthetic Aperture Radar for Planetary Applications <i>Rafael Rincon, Daniel Lu, Martin Perrine, Cornelis Du Toit, Lynn Carter</i>
	4515	Coherent Calibration Cancellation for Stepped Frequency Radar Systems <i>Garrett Peterson, William Kuhn</i>
1320 - 1500	Automotive Radar 2 - Meeting Room 19/20 - Session Chairs: Mark Yeary / Blake Barber	
	4147	Vertical Doppler Beam Sharpening Goes Self Parking <i>Amir Laribi, Markus Hahn, Jürgen Dickmann, Christian Waldschmidt</i>
	4008	Road Condition Identification from Millimeter-Wave Radar Backscatter Measurements <i>Peter Asuzu, Charles Thompson</i>
	4071	High Resolution Automotive Radar Data Clustering with Novel Cluster Method <i>Martin Stolz, Mingkang Li, Zhaofei Feng, Martin Kunert, Wolfgang Menzel</i>
	4106	Adaptive Digital Beamforming for Interference Suppression in Automotive FMCW Radars <i>Muhammad Rameez, Mattias Dahl, Mats I. Pettersson</i>
	4140	Support Vector Machines for Classification of Automotive Radar Interference <i>Renyuan Zhang, Siyang Cao</i>
1500 - 1600	BREAK and POSTER SESSION 5 -Ballroom D	

Thursday - April 26, 2018 - Continued

Tracking 2 - Ballroom D - Session Chairs: Willie Nel / Laurent Savy			
Poster Display	ID	Title	Authors
Row 1 (1-1)	4067	Adaptive Resource Allocation in Decentralized Colocated MIMO Radar Network for Multiple Targets Tracking - <i>Yanxi Lu, Zishu He, Ziyang Cheng, Shuangli Liu, Xi Luo</i>	
Row 1 (1-2)	4288	An Adaptive Resource Allocation Strategy for Multiple Target Tracking with Different Performance Requirements - <i>Ye Yuan, Wei Yi, Lingjiang Kong, Xiaobo Yang, Mengmeng Ge</i>	
Row 1 (1-3)	4372	Joint Tracking and Classification for Extended Targets in Maritime Surveillance <i>Clément Magnant, Stéphane Kemkemian, Loïc Zimmer</i>	
Row 1 (1-4)	4505	EKF on Lie Groups for Radar Tracking Using Polar and Doppler Measurements <i>Giorgio Magalhães, Eloi Dranka Junior, Yusef Cáceres, João do Val, ...</i>	
Radar Phenomenology & Clutter 2 - Ballroom D - Session Chairs: Willie Nel / Laurent Savy			
Row 1 (1-5)	4081	Estimation of Latent Heat Profiles of Deep Convective Clouds Using Cloudsat Radar <i>Kashyapa Naren Athreyas, Erry Gunawan, Bee Kiat Tay</i>	
Row 1 (1-6)	4117	Scattering Function Approach for Modeling Time-Varying Sea Clutter Returns - <i>Corey Cooke</i>	
Row 1 (1-8)	4139	Comments on the Convergence of the Iterative Physical Optics Method for Electromagnetic Scattering Predictions - <i>Yit-Tsi Kwan, George Bohannon</i>	
Row 2 (2-1)	4176	Short Range Clear Air Turbulence Induced Angle-of-Arrival Error Measurements at 10 GHz <i>Michael McBeth, Richard Jones</i>	
Row 2 (2-2)	4209	A Backscattering Data Simulation Model for Forest Canopy Based on Canopy Height Information - <i>Qiang Gao, Meng Ke, Zegang Ding, Tao Zeng</i>	
Row 2 (2-3)	4225	Baseband Signal Modelling of Chaff Echoes for Coherent Pulsed Radars - <i>Utku Kaydok</i>	
Row 2 (2-4)	4424	Theoretical Analysis of the First-Order Sea Clutter in Shipborne High-Frequency Surface Wave Radar - <i>Guowei Yao, Junhao Xie, Weimin Huang, Zhenyuan Ji, Wei Zhou</i>	
Row 2 (2-5)	4487	Heavy-Tailed Sea Clutter Modeling for Shore-Based Radar Detection <i>Dan Song, T. Bahadir Sarikaya, Selda Taskin Serkan, Ratnasingham Tharmarasa, Engin Sob...</i>	
Row 2 (2-6)	4491	Preliminary Refractivity from Clutter (RFC) Evaporation Duct Inversion Results from CASPER West Experiment - <i>Joshua Compaleo, Caglar Yardim, Luyao Xu, Shanka Wijesundara, Joel ...</i>	
Row 2 (2-7)	4500	Simulation of the Radar Cross-Section of Dynamic Human Motions Using Virtual Reality Data and Ray Tracing - <i>Akash Deep Singh, Shobha Sundar Ram, Shelly Vishwakarma</i>	
Row 2 (2-8)	4512	Ship Detection Using GNSS-Reflectometry in Backscattering Configuration <i>Alessio Di Simone, Paolo Braca, Leonardo Millefiori, Peter Willett</i>	
1600 - 1720	Passive Radar 3 - Meeting Rooms 16/17 - Session Chairs: Daniel O'Hagan / Fabrizio Berizzi		
	4325	Illuminator Selection Statistics Using ATSC Passive Radar with a Mobile Receiver <i>Kevin Scott, William Barott, Braham Himed</i>	
	4432	Target DoA Estimation in Passive Radar Using Nonuniform Linear Arrays and Multiple Frequency Channels - <i>Francesca Filippini, Tatiana Martelli, Fabiola Colone, Roberta Cardinali</i>	
	4428	Framework and Results on Passive ISAR - <i>Joseph Garry, Graeme Smith</i>	
	4461	Computationally Effective Range Migration Compensation in PCL Systems for Maritime Surveillance - <i>Tatiana Martelli, Francesca Filippini, Florian Pignol, F. Colone, R. Cardinali</i>	
1600 - 1740	Radar Signal Processing 3 - Ballroom B - Session Chairs: Ryan Hersey / Vishal Monga		
	4173	An Information-Theoretic Approach to Partitioning Simultaneous Transmit and Receive Digital Phased Arrays - <i>Ian Cummings, Timothy Schulz, Jonathan Doane, Timothy Havens</i>	
	4464	Underdetermined DOA Estimation with Unknown Source Number in Nonuniform Noise <i>Guojun Jiang, Xingpeng Mao, Mianzhi Wang, Yongtan Liu, Arye Nehorai</i>	
	4064	Non-Coherent Radar Detection Probability in Compound Sea Clutter with Correlated Speckle <i>Stephen Bocquet, Josef Zuk, Luke Rosenberg</i>	
	4455	Radar Emitters Classification and Clustering with a Scale Mixture of Normal Distributions <i>Guillaume Revillon, Ali Mohammad-Djafari, Cyrille Enderli</i>	
	4478	Radar and Ultrasound Hybrid System for Human Computer Interaction <i>Minh Nguyen, Changzhi Li</i>	

Friday - April 27, 2018 - Cox Convention Center - 2nd Floor

0800 - 1200	AM Tutorials (T-13 through T-17)	<i>Instructors</i>
	T-13 - Radar Clutter Modelling and Exploitation - <i>MR14</i>	<i>Prof. Simon Watts</i> <i>Dr. Luke Rosenberg</i>
	T-14 - Radar Systems Prototyping- <i>MR16</i>	<i>Dr. Lorenzo Lo Monte</i>
	T-15 - MIMO Radar and Waveform Diversity - The 2nd Wave - <i>Meeting Room 17</i>	<i>Dr. Joe Guerci</i> <i>Mr. Jamie Bergin</i>
	T-16 - Advanced Radar Processing Techniques - <i>MR18</i>	<i>Dr. Dan Thomas</i>
	T-17 - Weather and Phased Array Radar Polarimetry - <i>MR 15</i>	<i>Dr. Guifu Zhang</i> <i>Dr. Richard Doviak</i>