

Day-1 (February 19, 2025 - Wednesday) The Oral Session is in Sea Oats		
Time	Event/Location	Speaker
8:00 - 17:00	Registration (Seagrapes)	
8:20 - 8:30	Opening Ceremony	<b>Xun Gong</b> (iWAT2025 General Chair)
8:30 - 9:00	President Remarks	<b>Christophe Fumeaux</b> (AP-S) and <b>Goutam Chattopadhyay</b> (MTT-S)
9:00 - 9:40	Continental Breakfast/Coffee Break ( <b>Dunes I &amp; II</b> )	
9:40 - 10:00	Keynote Speech 1	<b>Gabriel Rebeiz</b> - <i>State-of-the-art Low-Cost AESA Technology using Silicon RFICs</i>
10:00 - 10:20		
10:20 - 10:40	mmWave Antennas	<b>John Volakis</b> - <i>Fabrication Challenges and Solution for Beam Forming mm-Wave Arrays</i>
10:40 - 11:00		<b>Kubilay Sertel</b> - <i>Over-the-air Characterization of On-wafer mmW and THz Antenna Parameters</i>
11:00 - 11:20		<b>Georgios Trichopoulos</b> - <i>Hybrid-Fed Antenna-Mixer for 130nm BiCMOS Terahertz Focal Plane Arrays</i>
11:20 - 11:40		<b>Dennis W. Prather</b> - <i>The Role of Photonic Devices in Advanced Phased Array Antennas</i>
11:40 - 12:00		<b>Goutam Chattopadhyay</b> - <i>1.9 THz Large-Format Heterodyne Array Instrument</i>
12:00 - 12:20	Empty	
12:20 - 12:40	Buffet Lunch ( <b>Salt restaurant area</b> )	
12:40 - 13:00		
13:00 - 13:20		
13:20 - 13:40	The Latest Progress in Antennas and Their Applications	<b>Zhi Ning Chen</b> - <i>Prior Knowledge-Guided Deep Learning-Enabled Metantenna Optimization and Synthesis</i>
13:40 - 14:00		<b>Satish Sharma</b> - <i>Design and Development of K/Ka-Band Flat Panel Phased Array Antennas and Data Throughput Testing</i>
14:00 - 14:20		<b>James Kelly</b> - <i>Using Gallium-Based Liquid Metal to Create Beam Switchable Bull's Eye Antennas</i>
14:20 - 14:40		<b>Yi Huang</b> - <i>Dispersive Material Antennas</i>
14:40 - 15:00		<b>Stavros Koulouridis</b> - <i>mm-Wave Metamaterial Antenna Design With Superstrate for B5G FR3 Bands Using Osprey Optimization Algorithm</i>
15:00 - 15:20	Coffee Break ( <b>Dunes I &amp; II</b> )	Poster Session-1 (Student Paper Competition In <b>Dunes I &amp; II</b> and other posters in <b>Sawgrass</b> )
15:20 - 15:40	Coffee Break ( <b>Dunes I &amp; II</b> )	
15:40 - 16:00		
16:00 - 16:20		
16:20 - 16:40		
16:00 - 17:00		
17:00 - 18:00	Empty	
18:00 - 20:00	Welcome Reception ( <b>Either on the Deck or in the Horizons</b> ) ( <b>Open Bar from 18:00-19:00</b> )	

Day-2 (February 20, 2025 - Thursday) The Oral Session is in Sea Oats		
Time	Event/Location	Speaker
8:00 - 17:00	Registration (Seagrapes)	
8:00 - 8:20	Keynote Speech 2	Christos Christodoulou - <i>Machine Learning in Electromagnetics: Applications in Space Technology</i>
8:20 - 8:40		
8:40 - 9:20	Continental Breakfast/Coffee Break (Dunes I & II)	
9:20 - 9:40	ML for Antenna	CJ Reddy - <i>Machine Learning for Antenna Design and Wireless Coverage Optimization</i>
9:40 - 10:00		Junming Diao - <i>A New Language for Antennas: Poynting Streamline Analysis and Applications</i>
10:00 - 10:20		Francesco Andriulli - <i>Computational Paradigms for EM Neuromodelling Challenges from Low to Microwave Frequency</i>
10:20 - 10:40		Qammer Abbasi - <i>Reconfigurable Intelligent Surfaces (RIS) for Communication, Sensing, and Localisation</i>
10:40 - 11:00		Poster Session-2 (Best Conference Paper Competition In Dunes I & II and other posters in Sawgrass)
11:00 - 11:20		
11:20 - 11:40		
11:40 - 12:00		
12:00 - 12:20		
12:20 - 12:40	Buffet Lunch (Salt restaurant area)	
12:40 - 13:00		
13:00 - 13:20		
13:20 - 13:40	RIS	George Eleftheriades - <i>Beamsteering and Beamshaping with Surface-Wave Assisted Reflecting Metasurfaces</i>
13:40 - 14:00		Daniel Sievenpiper - <i>Reconfigurable Surfaces and Machine Learning Based Control</i>
14:00 - 14:20		Anthony Grbic - <i>Microwave Network-Based Design of Beamforming Metasurfaces</i>
14:20 - 14:40		Nima Ghahchechian - <i>Dual-Polarized Reconfigurable Reflectarray Using Vanadium Dioxide for 5G mmWave Communication</i>
14:40 - 15:00		Nader Behdad- <i>Adaptive Beam Pointing, Tracking, and Null Steering in Electronically Reconfigurable Reflectarray Antennas with 1- and 2-bit Phase Quantization</i>
15:00 - 15:30	Coffee Break (Dunes I & II)	
15:20 - 15:40	Additive Manufacturing	Yi Wang - <i>3D Printed Microwave and Mm-Wave Feeders and Antennas</i>
15:40 - 16:00		Yang Yang - <i>3D Printed Multimaterial Metasurface Antennas for Wireless Communications</i>
16:00 - 16:20		Geng-Bo Wu - <i>3D Printed Al2O3 for Millimeter Wave Metalens</i>
16:20 - 16:40		Stephen Hanham - <i>Direct Laser Written Antennas for the Terahertz Frequency Band</i>
16:00 - 17:00		Mohammad S. Sharawi - <i>Encapsulated 3D-Printed Multi-Band Dielectric Resonator Antenna Systems</i>
17:00 - 19:00	Empty	
19:00 - 21:00	Banquet & Award Ceremony (Seat Oats)	

Day-3 (February 21, 2025 - Friday) The Oral Session is in Sea Oats		
Time	Event/Location	Speaker
8:00 - 12:00	Registration (Seagrapes)	
8:20 - 8:40	Wearable Antennas	Asimina Kiourti - <i>Novel 3D-Printing Technologies for Wearable and Implantable Antennas</i>
8:40 - 9:00		Erdem Topsakal - <i>Antennas for Implant-to-Wearable (I2W) Communication Systems</i>
9:00 - 9:20		Ifana Mahbub - <i>A Miniaturized Implantable Multiband Circular Polarized Antenna With Meandered Structure for</i>
9:20 - 09:40		Sima Noghalian - <i>Effects of Dust, Sweat, and Moisture on a Dual-Band Wearable WiFi Antenna</i>
9:00 - 10:00		Qing-Xin Chu - <i>High-Efficiency Low-SAR Antennas for Smartphones</i>
10:00 - 10:40	Continental Breakfast/Coffee Break ( <b>Dunes I &amp; II</b> )	
10:40 - 11:00	Heterogenous Integration for AiP	Alejandro Jimenez - <i>Liquid-Crystal Reconfigurable Intelligent Surfaces based on the Delay-Line Architecture</i>
11:00 - 11:20		Jing Wang - <i>3D Structurally Integrated and Co-Designed Mm-Wave Front-End Transceivers and Phased Array</i>
11:20 - 11:40		Pulugurtha Raj - <i>Multiscale Multistacked 3D Heterogeneous Integration of Chipllets for Future Wireless Systems</i>
11:40 - 12:00		Yong-Kyu Yoon - <i>Metaconductor-Based Interconnect Solution for Next-Generation Chip Integration</i>
12:00 - 12:15	Closing Remark	Xun Gong (iWAT2025 Chair)

Poster Session-1		Feb 19, 2025;	15:00 - 17:00
Paper ID	Title	Authors	
*1571077957	A Dual-State Active Wideband Reflectarray	Malak Elaouinate; Anastasios G. Koutinos; Constantinos L. Zekios	
*1571086237	H-Plane Coupled Yagi-Uda mm-Wave ESPAR Array	Ectis Velazquez, Jr; Xun Gong	
*1571087394	Monitoring Pressure Ulcer Using Microwave Radar Technique	Mahsa Khamechi; Abas Sabouni	
*1571087559	Advanced mmWave Slot-Ring Phased Array Antenna With Polarization Reconfigurability	Zahid Hasan; Xun Gong	
*1571087606	Ridge Gap Waveguide Slotted Array Antenna for Millimeter Wave Application - Comparative Use Case Scenario	Parisa Shirvani; Guillaume Ndjamba Nyami; Ahmed A Kishk	
*1571091456	Dual-Band, Dual Independently-Tunable Near-Field Focus Metasurface for Advanced Radar Bio-Sensor	Mohammad Omid Bagheri; Omar Ramahi; George Shaker	
1571087573	Interconnected Four Split Rectangular Ring Resonator Metamaterial for Microwave Sensing Application	Nazimul Mowla Chowdhury; Mohammad Lutful Hakim; Mohammad Tariqul Islam; Touhidul Alam	
1571087610	UWB Anisotropic Cross Polarization Conversion Metasurface With Low Sensitivity to Incident Angle	Ruwaybih Alsulami	
1571090203	The Crossed Loop Antenna	Francis Parsche	
1571090480	Advanced Nested Array Configuration Achieving Large-Scale Hole-Free Co-Array in MIMO System	Abdul Hayee Shaikh; Xiaoguang Liu	
1571090754	Design of a Compact Transparent Antenna for 5G Communication Systems	Mohammed Nazmus Shakib; Shaif Uddin Khondaker; Zebreail Hamden; Md Atiqur Rahman Udo; Minarul Islam; Heng Siong Lim	
1571092236	Pattern Synthesis of Sparse Linear Arrays With Mutual Coupling Using Vectorial Matrix Pencil Method	Yuanchen Zeng; Koen Mouthaan	
1571092249	Two-Dimensional Tunable Butler Matrix	Mitch E Plaisir; Muhammad Uzair; Hanxiang Zhang; Powei Liu; Saeed Zolfaghary pour; Hao Yan; Jonathan Casamayor; Bayaner Arigong	
1571077872	A Single-Layer Efficient Metasurface Absorber for RF Energy Harvesting Applications	Raziyeh Sharifi; Anne-Claire Lepage; Kyriaki Niotaki; Xavier Begaud	
1571079388	Enabling Non-Contact Heart Rate Monitoring With Readily Available mmW Radars	Anastasios G. Koutinos; Constantinos L. Zekios; Stavros Georgakopoulos	
1571087629	Compact MIMO Antenna Design With Improved Isolation Performance Through Resonant Structure	Mohana Vamshi Komandla; Mohammad Saeid Ghaffarian; Ervin Larashi	
1571091889	Ultrawideband Antipodal Vivaldi Antenna for Non-Contact Biomedical Sensing Applications	Karthik Kakaraparty; Jayshri S Kulkarni	
1571082072	An FPT-Based mmW Cavity-Backed Antenna	Anthony Osorio; Anastasios G. Koutinos; Constantinos Zekios; Stavros Georgakopoulos	
1571087277	A Wide-Band Antenna Design for Sub-Surface Microwave Imaging	Sulayman Joof; Mehmet Çayören; Ibrahim Akduman	
1571086987	A Data-Driven Pattern-To-Code Mapping for Digital Metasurface	Eskedar G Ayele; Oameed Noakoasteen; Christos Christodoulou	
1571087269	Design and Validation of Reflective Electromagnetic Surfaces With Switching Capability for K-Band Polarizer Applications	Achmad Munir; Dwi Andi Nurmantris; Arief Budi Santiko	
1571091716	Multilayer, Multiband Compact Wearable Endfire Antenna for on-Body Communication	Jayshri S Kulkarni; Daniel Agu; Douglas E Dow; Yang Li	
1571114790	Reconfigurable Absorber/Reflector Unit Cell With Parasitic Capacitance Cancellation for Mm-Wave Operation	Fineus Reilly; Jing Wang; Gokhan Mumcu	
1571077260	Towards Bi-Directional Deep Learning Approach in Patch Antenna Design and Optimization	Muhammad Kamran Shereen; Xiaoguang Liu; Xiaohu Wu; Shehryar Niazi; Ayesha Naseem; Muhammad I Khattak	

\*1571xxxxx Student Paper Finalist

Poster Session-2		Feb 20, 2025;	10:40 - 12:20
Paper ID	Title	Authors	
*1571090208	Design of mmWave Sensor for the Prognosis of Burn Wounds Severity Using Arm Tissue Phantom	Anthony V Giordano; Melany Gutierrez Hernandez; Satheesh Bojja Venkatakrishnan	
*1571080420	High-Contrast Low-Loss Antennas With Improved Bandwidth and Wearability	Allyanna S Rice; Asimina Kiourti	
*1571086267	A Low-Profile, Closely-Spaced 1×4 MIMO Array With Low Mutual Coupling	Sai C Radavaram; Luka Dimitrijevic; Sean Gillam; Maria Pour	
*1571087493	28-GHz Band Transparent Planar Dielectric Resonator Antenna	Wai Ki Lee; Kwok Wa Leung	
*1571087494	Dual-Polarized and Multi-Axis Foldable Antenna Using Sequentially Arranged Conformal Patches	Mohammad Ameen; Peng-Khiang Tan; Koen Mouthaan	
*1571091946	Characteristics Measurement of Wearable Embroidered Disc-Shaped Textile Array Antenna	Sabrina Megumi Ahmad; Sisi Indriani; Trasma Yunita; Muhammad Naufal Arira; Jamal Zaid; Achmad Munir	
1571077643	High-Power Dual-Polarized Reconfigurable Reflectarray for Directed Energy Applications	Muhammad Mubasshir Hossain; Tatiana Valera; Satheesh Bojja; John L. Volakis	
1571077708	Low-Profile Phased Lens Array Antenna With Anti-Reflection Structure Fed by Circular-Arc Arranged Horns in 300 GHz Band	Hideaki Sugiyama; Yoshiki Sugimoto; Kunio Sakakibara; Nobuyoshi Kikuma	
1571080044	An AI-Powered RIS Technology for Hand Gesture Recognition in the Radiating Near Field	Sigurd S. Petersen; Emil Lytje-Dorfman; Rune Drongesen; Jacob Vitfell Køpke; Puchu Li; Zhinong Ying; Ming Shen	
1571084654	Rectangular Waveguide Flange Aperture-Shared Antenna With Extended Array Angle-Of-Arrival	Yoshiki Sugimoto	
1571086357	Measurement of Propagation Impact by Low-E Glass From Outdoor Base Stations to Indoor of a House in 800 MHz to 3.7 GHz Band	Masashi Yamamoto; Yuki Inoue	
1571086640	Assessing Vehicle Wi-Fi Communication With Home Routers: Opportunities and Challenges	Mohammad Saeid Ghaffarian; Mohana Vamshi Komandla; Ervin Larashi	
1571090539	Compact Ultrawideband Slotted Bowtie-Dipole Antenna With 136.5% FBW for Next-Generation Wireless Communication and Sensing	Karthik Kakaraparty; Ifana Mahub	
1571076948	Low-Profile Dipole Antenna Integrated With Wideband Polarization Converter	Cho Hilary Scott Nkimbeng; Heesu Wang; Ikmo Park	
1571077829	Communication Between Rectangular Phased Arrays on an Orbital-Angular-Momentum-Encoded Link	Adam Fallon; Christine Chevalier; Ian Nemitz	
1571077896	The All Polarization Helix Antenna: The Sinewave Antenna	Francis Parsche	
1571078280	Design of an Efficient System for Infrared Energy Harvesting	Amir Botros; Adel Saleeb; Said Ahmed-Zaid; Eklas Hossain	
1571082692	A Three-Axis, Dual-Feed, Shielded Loop Probe Incorporating a Re-Entrant Infinite Balun	James S. McLean; Robert Sutton	
1571085206	Operational Characteristics of a Plasma Antenna	David D. Blackwell; Michael A. Rugar	
1571087537	Flexible and Stretchable Antenna Using Corrugated Copper-Clad Polyimide and Beyolex Film	Mohammad Ameen; Koen Mouthaan	
1571091086	A 4×4 L-Band Dual-Polarized Array With Digital Transmit/Receive Beamforming Using RFSoc	Shiwen Tang; Peizhuo Yang; Koen Mouthaan	
1571084285	Performance of Screen-Printed Wearable Antennas	Sarah E Johnson; Erdem Topsakal	
1571085265	Electrically Small Antenna Leveraging Piezoelectric Resonance in Stacked Layers	Kevin J Dix; Ihab F El-Kady; Alper Erturk	
1571087357	An Ultrathin Terahertz Tri-Band Fractal Meta-Absorber for Liquid Chemical Sensing Applications	Afzaal Ahmad; Muhammad Zubair; Jalil ur Rehman Kazim; Muhammad Ali Imran; Qammer Abbasi	
1571087601	A Miniaturized Multi-Wideband Antenna for Variable-Size Tablet Computers and Mobile Phones	Ahmed Shafqat; Muhammad Noman; Mirza Shujaat Ali; Hattan F. Abutarboush; Farooq A Tahir; Qammer Abbasi	

\*1571xxxxx Best Paper Finalist