

# 2019 IEEE International Symposium on Phased Array Systems and Technology

October 15 – 18, 2019, Waltham, MA USA

18: Phased Array Technologies for 5G Massive MIMO and Imaging Applications

Wei Hong (Southeast University)\*; Chao Yu (Nil); Jianyi Zhou (Southeast University), China.

Challenges of Power Dissipation in 5G m-MIMO Base Stations

Helen Kim, Co-founder and CEO, NanoSemi, Inc., USA.

25: An Eigenvector Detection Technique for Target Number Detection by A MIMO Array

Min Jiang (nriet)\* Nanjing Research Institute of Electronics Technology, Nanjing, China

30: Smallsat Surveillance Constellations Using MIMO Radar

Isaac Weissman (Radar Consultant)\*

37: A 64×64-way Two-dimensional Beam-switching Butler Matrix for Multi-beam Massive MIMO

Jiro Hirokawa (Tokyo Institute of Technology)\*, Japan.

130: High-Resolution DOA Estimation of Closely-Spaced and Correlated Targets for MIMO OFDM Radar-Communication System

Jessica B sanson (Instituto de telecomunicações)\*; Daniel Castanheira (Instituto de telecomunicações);  
Atilio Gameiro (Instituto de telecomunicações); Paulo Monteiro (Instituto de telecomunicações), Portugal.

51: A Novel Planar Nolen Matrix Phased Array for MIMO Application

Han Ren (Washington State University); Hanxiang Zhang (Washington State University);

Peizhao Li (Washington State University); Yixin Gu (University of Texas at Arlington );

Bayaner Arigong (Washington State University)\*, USA

193: A Simple Method of Array Pattern Analysis for MIMO Radar Geometries

Richard Gonzalez (University of Massachusetts Boston); Malcolm M Simpson (University of Massachusetts Boston)\*;

Emmanuel Pierre (University of Massachusetts Boston), USA.

#### 155: Unconventional M-MIMO Phased Array Design for 5G Wireless Systems

Nicola Anselmi (ELEDIA Research Center, University of Trento); Giorgio Gottardi (ELEDIA Research Center, University of Trento);

Paolo Rocca (ELEDIA Research Center, University of Trento)\*; Giacomo Oliveri (ELEDIA Research Center, University of Trento);

Andrea Massa (ELEDIA Research Center, University of Trento), Italy.

#### 164: Phased Arrays and MIMO: Wideband 5G End Fire Elements on LCP for MIMO

Rajveer S Brar (Simon Fraser University )\*; Rodney G Vaughan (Simon Fraser University);

MARK FELIPE (Benchmark Electronics), USA.

#### 178: MIMO Radar For Automobiles

Eli Brookner (Raytheon (retired))\* , USA.

#### Phased Arrays for MIMO Radar

Instructors:

Dr. Vito Mecca, MIT Lincoln Laboratory

Dr. Frank Robey, MIT Lincoln Laboratory

Dr. Daniel Rabideau, MIT Lincoln Laboratory

#### Phased-Arrays, Metamaterials, Stealth, UWB, Cognitive Adaptivity, Radar, MIMO – Basics & Breakthroughs

Instructor:

Dr. Eli Brookner, Raytheon (ret.)