ADAPTIVE ANTENNA SYSTEMS SYMPOSIUM

Thursday, November 19, 1992   8:00 AM to 5:00 PM

Radisson Hotel-Melville, 1350 Old Walt Whitman Road, Melville, New York

ADVANCE TECHNICAL PROGRAM

ARRAY THEORY

Session Chairman: Dr. Warren Stutzman (University of Virginia)

❑ Practical Adaptive Antenna Array Design, **Mr. James Scherer** (Randtron Systems-Loral) ❑ Adaptive Beamforming with the Generalized Spatial Correlation Algorithm, **Dr. Geordi Borsari** and **Dr. Bernard D. Steinberg** (University of Pennsylvania) ❑ Application of the Empirical Optimization Algorithm to Adaptive Antenna Arrays, **Dr. Stephen J. Blank** (New York Institute of Technology) ❑ Adaptive Antenna: From Gauss' Least-Squares to Systolic Implementations of Q-R Decomposition, **Dr. Stanley Yuen** (GE Aerospace -GESD)

SYSTEM AND SIGNAL PROCESSOR ALGORITHM

Session Chairman: Mr. Thomas A. Campbell (CES)

❑ The Ubiquitous Orthonormal Transformation-In Tracking, Sidelobe Canceling and Adaptive Arrays, **Dr. Eli Brookner** (Raytheon Equipment Division) ❑ Adaptive Airborne Radar Signal Processing in Non- homogeneous Clutter Environment, **Mr. Michael Wicks** (USAF Rome Laboratory) and **Dr. Hong Wang** (Syracuse University) ❑ Flexible Adaptive Spatial Signal Processor, **Dr. Hugh Hadley** (Syracuse Research Corp.) ❑ Detection and Tracking in the Presence of Interference Using Super-Resolution, **Mr. John J. Stangel** and **Ms. Jayne L. Angelino** (Paramax Systems Corp.)

ARCHITECTURE

Session Chairman: Mr. Fred Staudaher (SFA Inc.)

❑ MUSE- A Compact Architecture for Antenna Nulling Computations, **Mr. Charles Rader** (MIT-Lincoln Laboratory) ❑ Adaptive Antenna Architectures for AEW Radars, **Mr. James K. Day** (GE Aerospace AES) ❑ Improved Spatial Smoothing for Beamforming in the Presence of Correlated Arrivals, **Dr. Mamdouh M. Elmaraazey** (Australian Defense Force Academy)

COMMUNICATION AND RADAR APPLICATIONS

Session Chairman: Dr. John C. Herper (Paramax Systems Corp.)

❑ High Throughput Packet Radio with Adaptive Arrays, **Dr. Theodore Compton** (Compton Research Inc.) and **Dr. James Ward** (MIT Lincoln Laboratory) ❑ Adaptive Antennas for European Space Satellite System, **Mr. Samuel Numez** (European Space Research Center) ❑ Adaptive Antenna Array for Digital HF Communications, **Mr. Jeffrey F. Bull** and **Mr. Lawrence R. Burgess** (Flam and Russell Inc.) ❑ NRL Adaptive Array Flight Test Data Base, **Mr. Frederick W. Lee** (Naval Research Laboratory) and **Mr. Fred Staudaher** (SFA Inc.) ❑ Adaptive Space-Time Processing Algorithm Performance Evaluation, **Mr. Dana J. Piwinski** (USAF Rome Laboratory), **Dr. Lawrence E. Brennan** (Adaptive Sensors Inc.), and **Mr. Fred Staudaher** (SFA Inc.)

RADAR APPLICATIONS

Session Chairman: Mr. Peter J. McVeigh (AIL Systems Inc.)

❑ Adaptive Array Processing for Real- Time Airborne Radar Detection of Critical Mobile Targets, **Dr. Hong Wang** (Syracuse University) ❑ Least Square Predictive Space-Time Array Processing for Adaptive Airborne MTI Radar, **Dr. Joseph Guerci** (Grumman Corp.) and **Dr. E. H Feria** (CUNY) ❑ An Adaptive Antenna Environment Emulator-The Wavefront Simulator, **Mr. Steven B. Minarik** (Naval Command Control and Ocean Surveillance Center) ❑ Real Time Signal Generation for Space-Time Adaptive Radar Development, **Dr. Donald Miedaner** (Adaptive Tech.) ❑ Increased Receiver Dynamic Range to Support High Clutter and Interference Environments, **Mr. Joseph Conigilione** and **Dr. Charles Buntschuh** (Grumman Space & Electronics).✼ Agenda is subject to change.

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Send this form and make payment to: **IEEE Adaptive Antenna Systems Symposium Committee**
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For further information, **call: Mr. Thomas A. Campbell 516-757-3008 or Dr. Stephen J. Blank 516-686-7454 or fax 516-922-0239**