

Institute of Electrical and Electronics Engineers- Long Island Section

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 Coniglione and Dr. Charles Buntschuh (Grumman Space & Electronics).*

* Agenda is subject to change.

Conference Registration Form I am a Member of: IEEE AES AP MTT SP Comm
Membership #

Send this form and make payment to: **IEEE Adaptive Antenna Systems Symposium Committee**
PO Box 36, Greenlawn, New York 11740-0036

Registration Fees (Circle one)

Date: Oct 15, 1992	Prior to	After	Last name <input type="text"/>	First name <input type="text"/>
Member	\$80.00	\$95.00	Affiliation <input type="text"/>	Phone <input type="text"/>
Non-member	\$105.00	\$120.00	Address <input type="text"/>	Fax <input type="text"/>
Students/Unemployed	\$50.00	\$60.00	City <input type="text"/>	State <input type="text"/> Zip <input type="text"/>

For further information, call: Mr. Thomas A. Campbell 516-757-3008 or Dr. Stephen J. Blank 516-686-7454 or fax 516-922-0239