

2006 IEEE Radar Conference



April 24 - 27, 2006
Turning Stone Resort & Casino
Verona, NY USA

www.radar06.org



Sponsored by
IEEE Aerospace & Electronics Systems Society
and IEEE Mohawk Valley and Syracuse Sections



Call for Papers

****Please Note that the Paper Summary Submission Deadline has been Extended to October 17, 2005***

The conference theme *Radar...Our Sight into a Spectrum of Information* emphasizes the increasingly wider spectrum of target and environmental information that is emerging from innovative radar research, systems technology, and component development for civilian, defense, and space applications. This innovation is evident today in the development of foliage penetration radars to provide MTI and SAR capabilities against targets obscured by vegetation or camouflage, in development of ground penetrating radar, in improvements to high range resolution and SAR systems, in development of advanced airborne surveillance systems and space-based radars, and in ongoing research into many areas, including automatic target recognition, radar data exploitation and fusion, sensor management, knowledge-aided sensor signal processing and expert reasoning architectures, multi-static radars and radar networks, advanced component development, and much more.

Original papers on radar systems and technology are solicited for the 2006 IEEE Radar Conference. Suggested topics for papers include the following:

Radar Systems: Advanced concepts in radar, imaging radar, high resolution SAR, multi-function radar technology, airborne, shipborne, and space-based radar, air traffic control, automotive and weather radar, counter-terrorism, counter-drug, and law enforcement applications.

Antenna Technology: Multiple-beam antennas, conformal arrays, subarraying techniques, low-sidelobe design, multi-frequency, ultra-wideband, and dual-polarization designs as used in radar systems.

Radar Data and Signal Processing: Digital beamforming, array processing techniques, STAP, waveform diversity, estimation techniques, super-resolution, sidelobe control and false alarm mitigation, multipath processing, improved ECCM techniques, sensor fusion, tracking, target classification, and target identification.

Component Development: Advanced signal processing components, new materials and manufacturing techniques, COTS processors and commercial components, low-cost T/R modules, power amplifiers, and digital receivers.

Phenomenology: Propagation and polarization phenomena, target measurements and modeling, clutter measurements and modeling, terrain and building scattered interference.

Radar Simulation: System level simulation, clutter and propagation modeling, operational performance analysis, simulation validation with test data.

Emerging Technologies: Bistatic and multi-static radar, foliage and ground penetrating radar, polarimetric radar, ultra-wideband radar, interferometric SAR, MEMS applications, fiber-optic remoting, microwave photonics, microwave photonics component subsystems.

Paper Submission

Paper Summary: Authors are required to submit a 1000-1500 word paper summary. All paper summaries must be submitted electronically using the paper submission web site that is accessible at <http://www.epapers.org/radar2006>. Additional guidance is provided on the paper submission site.

Authors should indicate a preference for poster or oral presentation. Student papers are strongly encouraged. Please note that **the submission deadline for the paper summary has been extended to October 17, 2005**

Paper Acceptance: Authors will be notified of acceptance by December 9, 2005.

Final Paper: Instructions and format for the final paper will be provided on the conference web site. Completed electronic papers will be required by February 3, 2006. Papers are limited to 8 pages, including tables and figures.

Additional Information: Where applicable, government approval for publication as an unclassified, public release paper will be required with the final paper submission. International authors should allow extra time for visit VISA requests and should initiate the VISA process immediately after notification of paper acceptance. The conference will issue letters of invite for foreign authors to facilitate VISA applications.

Conference Location



The Turning Stone Resort & Casino is conveniently located off the New York State Thruway (I-90), only 30 minutes from Hancock Airport in Syracuse, NY.

Turning Stone Resort & Casino is an enterprise of the Oneida Indian Nation and offers three championship caliber golf courses, casino gaming, bingo, a full-service day spa and salon, and a showroom featuring top name entertainment. See www.turning-stone.com for more information.

The resort is centrally located, close to the scenic beauty of the Finger Lakes Wine Region and the Adirondack Mountains State Park. Nearby attractions include the Baseball Hall of Fame, the Boxing Hall of Fame, Fort Stanwix, the Munson-Williams-Proctor Arts Institute, and the Oneida Community Mansion House.



Conference Chairs

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