



RadarCon '11

In the Eye of the Storm

2011 IEEE Radar Conference
Westin Crown Center
Kansas City, Missouri, USA
May 23 – 27, 2011
www.ieeeradarcon11.org

Call for Papers

Mid-America Welcomes RadarCon11

Please join us for the 2011 IEEE Radar Conference to be held in Kansas City, Missouri. Easily reachable from anywhere in the USA and via gateway city connections throughout the world, RadarCon11 will provide a rich technical program over a broad array of topics in radar systems, technology, applications, phenomenology, modeling, and signal processing. The conference theme, *In the Eye of the Storm*, highlights the strong regional interest in radar for severe weather analysis and tracking. Broader implications of the theme reflect global interests such as radar's role in assessing climate change, supporting myriad defense applications, as well as issues with spectrum allocation and management. Attendees will enjoy an exciting social program centered on the many attractions in downtown Kansas City. Make plans now to visit America's heartland for a great week of technical, social, and cultural enrichment.

Conference Venue

The conference venue is the Westin Crown Center in downtown Kansas City, Missouri. In addition to the many shops and restaurants located next door at Crown Center, nearby attractions include shopping and restaurants at the scenic Country Club Plaza; the new Power-and-Light District with the College Basketball Hall of Fame at the Sprint Center; nightlife at Westport; Science City at Union Station; the 18th & Vine Jazz District; the US National World War I Museum; the Nelson-Atkins Art Museum; the Negro Leagues Baseball Museum; and many other attractions. Throw in more than 100 different places to get world-famous KC-style barbeque, and it's easy to see that Kansas City offers something special for everyone.

Paper Submission

Prospective authors must electronically submit a paper summary (2-3 pages, including figures) by November 15, 2010. All papers will receive multiple peer reviews; authors will receive timely notification of paper acceptance. If accepted, final papers must be no more than 6 pages and will be submitted electronically. Papers must be presented at the conference -- either orally or as a poster -- by an author or selected colleague to appear in the final conference proceedings on IEEE Xplore. Formats and complete submission instructions are at www.ieeeradarcon11.org. Student papers must follow the same submission procedure and deadlines, except that the student paper checkbox should be selected during the submission process. Begin developing your topic and paper now to present at this yearly, prestigious conference.



Kansas City Section

Important Dates

November 15, 2010: Paper Submissions (Summaries) Due

January 25, 2011: Acceptance Notification

March 4, 2011: Final Papers Due



RadarCon 11 will include:

- A dynamic technical program with Keynote lectures, Oral/Poster presentations, Special sessions, and a Student Paper Contest
- Interactive Tutorials and Exhibits
- Engaging social activities with Welcome Reception and Banquet

Technical Topics

Papers are solicited in the following areas relevant to the theme and all areas of radar and its applications:

Environmental Remote Sensing

Weather Radar / Severe Storm Monitoring
Atmospheric Remote Sensing
Meteorology / Hydrology / Oceanography
Radar for Climate Change Sensing
Geophysical Remote Sensing
Remote Sensing of Space / Radio Astronomy

Antenna Technology

Conformal Arrays
Polarization Diversity
Sub-Arraying Techniques
Ultrawideband/Multi-Frequency

Components & Subsystems

Ultrawideband Waveform Generation
Low-Cost TR Modules
Distributed Processing Architectures
COTS Processors/Components

Emerging Technologies

Bistatic/Multistatic Radar
MIMO Radar
Multi-Function Operation
Compressive Sensing Concepts
Spectrum Management
Urban Sensing / Thru-Wall Imaging

Radar Systems/Concepts

Space-Based Radar
Ground Penetrating Radar
Imaging Systems (SAR/ISAR/InSAR)
Surveillance Systems (MTI)
Air Traffic Control
Automotive Radar
Over-the-Horizon Systems
Foliage Penetration
Electronic Protection

Phenomenology

Modeling of Propagation/Scattering
Multipath Effects
Terrain/Building Scattered Interference
Target & Clutter Measurement/Modeling
Ionospheric Effects

Radar Signal & Data Processing

Detection/Estimation Techniques
Automatic Target Recognition
Waveform Diversity & Design
Sidelobe Control
Array/Multichannel Processing (STAP)
Adaptive Processing
Superresolution

Papers covering additional or unique radar topics are also highly encouraged.

Conference & Technical Chairs

Prof. Shannon D. Blunt, *General Chair*
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Prof. Christopher Allen, *Technical Chair*
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