



Call for Papers
IEEE Aerospace and Electronic Systems Magazine
Special Issue on

Cyber Security in Aerospace Systems

Cyber security vulnerabilities and countermeasures in aviation and space systems are of significant interest. Threats to safety and security of aircraft control, traffic surveillance, and aircraft navigation are each of concern. Research and applications to avionics, communications/navigation, and electronic protection technologies are gaining more attention as air traffic interconnectivity expands, Unmanned Aircraft Systems (UAS) become ubiquitous, and diverse land-based systems rely upon space-based navigation. Highly relevant work is being done in international projects such as the modernization of the GPS system, National Air Space (NAS) Enterprise Information System Security Architecture program, and the Single European Sky ATM Research (SESAR) initiative.

Key Topic Areas

Novel papers are sought relating to cyber security vulnerabilities and countermeasures for manned or unmanned systems, including:

- Adaptive airborne communications
- Vulnerabilities of surveillance information and developments in hybrid techniques with Automatic Dependent Surveillance–Broadcast (ADS-B)
- Security measures for aerospace electronics
- Air Traffic Control (ATC) datalink security projects
- Reliable Intelligence, Surveillance, and Reconnaissance (ISR)
- Navigation sensor information, including GPS spoofing and spoofing detection
- Resilient navigation
- Vulnerabilities to UAS control links
- Cyber risks to ground-based support

Manuscripts should be submitted using the manuscript submission web site for IEEE Aerospace and Electronic Systems Magazine at <http://sysaes.msubmit.net>. Manuscripts will be peer reviewed according to the standard IEEE AES process. For information on paper submission, prospective authors should consult *Information for Authors* found at <http://sysaes.msubmit.net>.

Tentative schedule of submission and review

- Submission Deadline: 31 January 2017
- First Review due: 15 April 2017
- Revised Manuscript due: 01 June 2017
- Second Review due: 15 June 2017
- Final Manuscript due: 15 August 2017

Guest Editors

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