

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

“Integrated Navigation, Sensing and Communications for Solving Problems in Society”

Integrated system developments

Solving major problems in Society (in areas of Transport, Smart Environments, Quality of Life, Security and others) necessitates a multi-disciplinary research approach. By integration of various disciplines a multitude of new and more intelligent services can become available. Intelligent services are described in programs as Smart Home, Smart Building, Smart City, Ambient Intelligence, Ambient Assistant Living, Ubiquitous Computing, Context Awareness and many more. System-oriented and network-oriented approaches are needed; they range from fundamentals up to applications. Optimizing sub-systems functionalities and fulfilling technical and non-technical requirements can only be done by research teams which have proven expertise in the required disciplines.

Recent progress on integrated navigation, sensing, communications shows that systems and networks performance can be optimized adaptively by real time controllable communications and sensing subsystem blocks and by use of positioning and navigation data. At the same time we see that sensor and communication networks are integrated and can operate from small scale (e.g. on-body networks with nanoscale sensors) up to global scale (e.g. integrated satellite, airborne or terrestrial networks). Time is ready now to overview major developments in latest years and to present visions potential applications and needs of integrated systems in future.

Key topic areas

- Integration of multi-disciplinary technologies and systems
- Integrated positioning and navigation at sensor, communication and user nodes
- Control functions in integrated systems and applications
 - o Data fusion
 - o Decision making
- Applications
 - o Transport
 - o Smart Environments
 - o Quality of Life
 - o Security
 - o Other

For information on paper submission, prospective authors should visit https://sysaes.msubmit.net/cgi-bin/main.plex?form_type=do_cat&file_nm=info.htm
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.

Important Dates

- Manuscript submission deadline: 1 May 2017
- First review completed: 1 September 2017
- Revised Manuscript due: 15 October 2017
- Second Review completed: 15 November 2017
- Final Manuscript due: 15 December 2017
- Publication issue: April or May 2018

Guest editors

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