



Editor-in-Chief - Teresa Pace Associate Editor - James D. Turner Assistant Editor - Marina Ruggieri Tutorials Editor - Lance M. Kaplan Administrative Editor - A. Lim Consultant - David B. Dobson

Sector Editors

General & Comcl. Aviation - George Dean Avionics -Modeling & Simulation -Position, Location & Navigation -Radar Systems - Hugh Griffiths Sensors & Instrumentation Space Systems - Mauro de Sanctis Systems Engineering -Book Reviewers -News & Information - A. Lim

Contributing Editors

Awards - Erwin C. Gangl Conferences - Barry C. Breen Education - Steve E. Watkins Ethics - Lise Johnson History - Henry Oman, Ron Schroer Patents, Stds. & Reg. Issues -Arnold M. Greenspan Technical Panels - James R. Huddle

How to Reach Us

We welcome letters; we reserve the right to edit for space, style, and clarity. Include address and daytime phone number. E-mail: Systems.AESS@ieee.org Fax: 301/657-0209 Mail: IEEE A&E Systems Magazine, c/o D. Dobson, 5500 Friendship Blvd., Chevy Chase, MD 20815-7239, USA

Address Changes & General Information There is one method for updating your IEEE records: address, phone/fax numbers, e-mail address, etc.). Make on-line changes at:

http://service@ieee.org/memberserv/cao/ intro.htm.

IEEE Website: www.ieee.org AESS Website: http://www.ieee-aess.org/

Magazine Deadlines: Material (except articles) must be received by no later than 60 days prior to the month of the issue in which it is to appear.

Contributions within the scope of the Society are solicited. Use the webbased submission system at: http://sysaes. msubmit.net. Guidelines may be found on the banner at the top of the submission homepage under "Information to Author." We do not encourage special sections but will consider special series. Contact the Editor-in-Chief.

AEROSPACE AROSPACE and ELECTRONIC SYSTEM STATE Number Three

In This Issue – Technically
Column
♦ From the Editor-in-Chief – T. Pace · · · · · · · · · · · · · · · · · · ·
Articles
♦ Intelligent SINS/RDSS Integrated Algorithms for Land Vehicle Navigation · · · · · · · · · · · · · · · · · · ·
X. He, X. Hu, W. Wu & M. Wu
♦ Experiences in Managing the Prometheus Project · · · · · · · 12
D.H. Lehman, K.B. Clark, B.A. Cook, S.A. Gavit, S.A. Kayali, J.C. McKinney, D.A. Milkovich, K.R. Reh, R.L. Taylor, J.R. Casani & T. Griebel
♦ How Engineers Can Conduct Cost-Benefit Analysis for PHM Systems · · · · · · · · · · · · · · · · · · ·
J. Banks, K. Reichard, E. Crow & K. Nickell
♦ Integrating Modular Avionics: A New Role Emerges · · · · · · · · 31
R. Garside & F.J. Pighetti, Jr.
♦ Derating Concerns for Microprocessors Used in Safety-Critical Applications · · · · · · · · · · · · · · · · · · ·
H. Forsberg & T. Månefjord
♦ Non-Linear Sequencing · · · · · · · · · · · · · · · · · · ·
E. Gat
The First One Hundred University-Class
Spacecraft 1981-2008 – M. Swartwout Insert
News & Information
IEEE/AESS Society Organization
IEEE/AESS Personnel Directory
Distinguished Lecturers
Meetings Calendar