

In This Issue – Technically 2

Articles

◆ **UAV Payload and Mission Control Hardware / Software Architecture** 3

E. Pastor, J. Lopez & P. Royo

◆ **General Aviation Aircraft Flight Operations Quality Assurance** 9

K. Mitchell, B. Sholy & A.J. Stolzer

◆ **Taming Tornadoes** 16

B.J. Eastlund & L.M. Jenkins

◆ **Tetrahedral Robotics for Space Exploration** 22

*M. Schnell, S. Scalise, S. Curtis, M. Brandt, G. Bowers, G. Brown,
C. Cheung, C. Cooperider, M. Desch, N. Desch, J. Dorband,
K. Gregory, K. Lee, A. Lunsford, F. Minetto, W. Truszkowski,
R. Wesenberg, J. Vranish, M. Abrashantes, P. Clark, T. Cupon,
M. Weaker, R. Watson, P. Olivier & M.L. Rilee*

◆ **Flight Operations in the New Millennium** 31

R.E. Ryan

Columns

◆ **Target Tracking Panel — W.D. Blair** 37

◆ **Discourse — E.H. Hirt** 39

News & Information

IEEE AESS Society Organization 36

Baltimore Hosts the 2007 Autotestcon 40

Distinguished Lecturers 41

Radar 2007 to be held in Scotland. 42

Adelaide, Australia Hosts Radar 2008 43

Radar 2008 in Italy 44

Distinguished Tutorials Program 45

Responding to Objections about IEEE Membership. 46

IEEE Membership Benefits 47

Membership Application 48

Directory Inside Back Cover

Meetings Back Cover