

Author Index,¹ 1997

The Telecommunications and Data Acquisition Progress Report

42-129, January–March 1997
42-130, April–June 1997
42-131, July–September 1997
42-132, October–December 1997

Alvarez, L. S.

42-129 Cammatic: Automated Compensation for DSS-13 Antenna Gravity-Loading Performance Degradation, pp. 1–4.

See Strain, D. M.

Arabshahi, P.

42-132 An Intelligent Fault Detection and Isolation Architecture for Antenna Arrays, pp. 1–15.

See Rahnamai, K.

Asmar, S. W.

42-129 Characteristic Trends of Ultrastable Oscillators for Radio Science Experiments, pp. 1–5.

42-131 Mars Pathfinder Entry, Descent, and Landing Communications, pp. 1–19.

See Wood, G. E.

¹ In the case of joint authorship, the reader is referred to the citation under the first author, where all the authors of the article are listed.

42-131 Neptune Revisited: Synthesizing Coherent Doppler From Voyager's Noncoherent Downlink, pp. 1–19.

See Rebold, T. A.

Bar-Sever, Y.

42-130 Comparison of Global Positioning System and Water Vapor Radiometer Wet Tropospheric Delay Estimates, pp. 1–9.

See Linfield, R.

Belongie, M.

42-129 Solar Scintillation Effects on Telecommunication Links at Ka-Band and X-Band, pp. 1–11.

See Feria, Y.

Bertiger, W. I.

42-131 MicroGPS for Low-Cost Orbit Determination, pp. 1–12.

See Wu, S. C.

Chen, C.-C.

42-131 An All-Digital, High Data-Rate Parallel Receiver, pp. 1–16.

See Srinivasan, M.

Cheung, K.-M.

42-130 A Simple Algorithm for Automated High-Efficiency Tracking, pp. 1–7.

Chien, S.

42-130 Automated Generation of Antenna Tracking Plans: A Knowledge-Based Approach, pp. 1–17.

A. Govindjee, F. Fisher, T. Estlin, X. Wang, and R. Hill, Jr.

Clauss, R.

42-132 Ka-Band Atmospheric Noise-Temperature Measurements at Goldstone, California, Using a 34-Meter Beam-Waveguide Antenna, pp. 1–20.

See Morabito, D.

Cleis, R.

42-131 Results of the Compensated Earth–Moon–Earth Retroreflector Laser Link (CEMERLL) Experiment, pp. 1–13.

See Wilson, K. E.

Coker, R. F.

42-131 VLBI DSN Flux Density Observations From 1989 to 1996 of 290 Extragalactic Radio Sources, pp. 1–25.

C. S. Jacobs and L. E. Iriks

Divsalar, D.

42-130 Hybrid Concatenated Codes and Iterative Decoding, pp. 1–23.

F. Pollara

Estlin, T.

42-130 Automated Generation of Antenna Tracking Plans: A Knowledge-Based Approach, pp. 1–17.

See Chien, S.

Feria, Y.

42-129 Solar Scintillation Effects on Telecommunication Links at Ka-Band and X-Band, pp. 1–11.

M. Belongie, T. McPheeters, and H. Tan

Finley, S. G.

42-132 An Intelligent Fault Detection and Isolation Architecture for Antenna Arrays, pp. 1–15.

See Rahnamai, K.

Fisher, F.

42-130 Automated Generation of Antenna Tracking Plans: A Knowledge-Based Approach, pp. 1–17.

See Chien, S.

Freedman, A. P.

42-129 Accuracy of Earth Orientation Parameter Estimates and Short-Term Predictions Generated by the Kalman Earth Orientation Filter, pp. 1–10.

See Oliveau, S. H.

Fugate, R. Q.

42-131 Results of the Compensated Earth–Moon–Earth Retroreflector Laser Link (CEMERLL) Experiment, pp. 1–13.

See Wilson, K. E.

Gorham, P. W.

42-132 Effect of Antenna-Pointing Errors on Phase Stability and Interferometric Delay, pp. 1–19.

D. J. Rochblatt

Govindjee, A.

42-130 Automated Generation of Antenna Tracking Plans: A Knowledge-Based Approach, pp. 1–17.

See Chien, S.

Gray, A.

42-131 An All-Digital, High Data-Rate Parallel Receiver, pp. 1–16.

See Srinivasan, M.

Grebowsky, G.

42-131 An All-Digital, High Data-Rate Parallel Receiver, pp. 1–16.

See Srinivasan, M.

Gutiérrez-Luaces, B. O.

42-129 Radio Astronomy Use of Space Research (Deep-Space) Bands in the Shielded Zone of the Moon, pp. 1–9.

Harcke, L.

42-129 Laboratory and Flight Performance of the Mars Pathfinder (15,1/6) Convolutionally Encoded Telemetry Link, pp. 1–11.

G. Wood

Hill, Jr., R.

42-130 Automated Generation of Antenna Tracking Plans: A Knowledge-Based Approach, pp. 1–17.

See Chien, S.

Imbriale, W. A.

42-129 A New All-Metal Low-Pass Dichroic Plate, pp. 1–11.

Iriks, L. E.

42-131 VLBI DSN Flux Density Observations From 1989 to 1996 of 290 Extragalactic Radio Sources, pp. 1–25.

See Coker, R. F.

Jacobs, C. S.

42-131 VLBI DSN Flux Density Observations From 1989 to 1996 of 290 Extragalactic Radio Sources, pp. 1–25.

See Coker, R. F.

Kahn, R.

42-129 Tone Detection Via Incoherent Averaging of Fourier Transforms to Support the Automated Spacecraft-Monitoring Concept, pp. 1–22.

See Lanyi, G.

Keihm, S.

42-130 Comparison of Global Positioning System and Water Vapor Radiometer Wet Tropospheric Delay Estimates, pp. 1–9.

See Linfield, R.

Klimesh, M.

42-129 Compression of Multispectral Images, pp. 1–7.

Kroger, P.

42-130 Comparison of Global Positioning System and Water Vapor Radiometer Wet Tropospheric Delay Estimates, pp. 1–9.

See Linfield, R.

Kuang, D.

42-131 MicroGPS for Low-Cost Orbit Determination, pp. 1–12.

See Wu, S. C.

Kursinski, E. R.

42-131 Neptune Revisited: Synthesizing Coherent Doppler From Voyager's Noncoherent Downlink, pp. 1–19.

See Rebold, T. A.

Lam, L. V.

42-132 Acquisition Performance Comparison of the Generalized Maximum A Posteriori Symbol Synchronizer Versus the Data-Transition Tracking Loop, pp. 1–13.

T.-Y. Yan, M. K. Simon, and W. L. Martin

Lanyi, G.

42-129 Tone Detection Via Incoherent Averaging of Fourier Transforms to Support the Automated Spacecraft-Monitoring Concept, pp. 1–22.

R. Kahn

Layland, J. W.

42-130 The Evolution of Technology in the Deep Space Network: A History of the Advanced Systems Program, pp. 1–44.

L. L. Rauch

Leatherman, P. R.

42-131 Results of the Compensated Earth–Moon–Earth Retroreflector Laser Link (CEMERLL) Experiment, pp. 1–13.

See Wilson, K. E.

Lee, P. R.

42-132 High Power-Low Noise Facility Development, pp. 1–12.

See Otoshi, T. Y.

Lee, R. A.

42-131 Mars Pathfinder Entry, Descent, and Landing Communications, pp. 1–19.

See Wood, G. E.

Lichten, S. M.

42-131 MicroGPS for Low-Cost Orbit Determination, pp. 1–12.

See Wu, S. C.

Linfield, R.

42-130 Comparison of Global Positioning System and Water Vapor Radiometer Wet Tropospheric Delay Estimates, pp. 1–9.

Y. Bar-Sever, P. Kroger, and S. Keihm

Lutes, G.

42-129 Microwave Signal Mixing by Using a Fiber-Based Optoelectronic Oscillator for Wavelength Division Multiplexed (WDM) Systems, pp. 1–5.

See Shieh, W.

Maleki, L.

42-129 Microwave Signal Mixing by Using a Fiber-Based Optoelectronic Oscillator for Wavelength Division Multiplexed (WDM) Systems, pp. 1–5.

See Shieh, W.

Martin, W. L.

42-132 Acquisition Performance Comparison of the Generalized Maximum A Posteriori Symbol Synchronizer Versus the Data-Transition Tracking Loop, pp. 1–13.

See Lam, L. V.

McPheeters, T.

42-129 Solar Scintillation Effects on Telecommunication Links at Ka-Band and X-Band, pp. 1–11.

See Fera, Y.

Moore, M.

42-129 Cammatic: Automated Compensation for DSS-13 Antenna Gravity-Loading Performance Degradation, pp. 1–4.

See Strain, D. M.

Morabito, D.

42-132 Ka-Band Atmospheric Noise-Temperature Measurements at Goldstone, California, Using a 34-Meter Beam-Waveguide Antenna, pp. 1–20.

R. Clauss and M. Speranza

Nandi, S.

42-131 MicroGPS for Low-Cost Orbit Determination, pp. 1–12.

See Wu, S. C.

Oliveau, S. H.

42-129 Accuracy of Earth Orientation Parameter Estimates and Short-Term Predictions Generated by the Kalman Earth Orientation Filter, pp. 1–10.

A. P. Freedman

Otoshi, T. Y.

42-132 High Power-Low Noise Facility Development, pp. 1–12.

H. F. Reilly, P. H. Stanton, and P. R. Lee

Peng, T.

42-130 A New Approach in Spacecraft Monitoring for Efficient Use of the Deep Space Network, pp. 1–17.

See Sue, M. K.

Pham, T.

42-132 An Intelligent Fault Detection and Isolation Architecture for Antenna Arrays, pp. 1–15.

See Rahnamai, K.

Pollara, F.

42-130 Hybrid Concatenated Codes and Iterative Decoding, pp. 1–23.

See Divsalar, D.

Rahnamai, K.

42-132 An Intelligent Fault Detection and Isolation Architecture for Antenna Arrays, pp. 1–15.

P. Arabshahi, T.-Y. Yan, T. Pham, and S. G. Finley

Rauch, L. L.

42-130 The Evolution of Technology in the Deep Space Network: A History of the Advanced Systems Program, pp. 1–44.

See Layland, J. W.

Rebold, T. A.

42-131 Mars Pathfinder Entry, Descent, and Landing Communications, pp. 1–19.

See Wood, G. E.

42-131 Neptune Revisited: Synthesizing Coherent Doppler From Voyager's Noncoherent Downlink, pp. 1–19.

M. Tinto, S. W. Asmar, and E. R. Kursinski

Reilly, H. F.

42-132 High Power-Low Noise Facility Development, pp. 1–12.

See Otoshi, T. Y.

Rochblatt, D. J.

- 42-132 Effect of Antenna-Pointing Errors on Phase Stability and Interferometric Delay, pp. 1–19.
See Gorham, P. W.

Romans, L. J.

- 42-131 MicroGPS for Low-Cost Orbit Determination, pp. 1–12.
See Wu, S. C.

Scheeres, D. J.

- 42-132 Interactions Between Ground-Based and Autonomous Navigation for Precision Landing at Small Solar-System Bodies, pp. 1–12.

Shieh, W.

- 42-129 Microwave Signal Mixing by Using a Fiber-Based Optoelectronic Oscillator for Wavelength Division Multiplexed (WDM) Systems, pp. 1–5.
S. X. Yao, G. Lutes, and L. Maleki

Simon, M. K.

- 42-130 Iterative Information-Reduced Carrier Synchronization Using Decision Feedback for Low SNR Applications, pp. 1–21.
V. A. Vlnrotter
- 42-131 False Lock Performance of I-Q Costas Loops for Pulse-Shaped Binary Phase Shift Keying, pp. 1–8.
- 42-131 On the Power Spectrum of Angle-Modulated Phase-Shift-Keyed Signals Corrupted by Intersymbol Interference, pp. 1–10.
- 42-131 On the Power Spectrum of Digital Frequency-Modulated Signals, pp. 1–5.
- 42-131 The True Performance of the Simplified Data-Transition Tracking Loop, pp. 1–9.
- 42-132 Acquisition Performance Comparison of the Generalized Maximum A Posteriori Symbol Synchronizer Versus the Data-Transition Tracking Loop, pp. 1–13.
See Lam, L. V.

Speranza, M.

42-132 Ka-Band Atmospheric Noise-Temperature Measurements at Goldstone, California, Using a 34-Meter Beam-Waveguide Antenna, pp. 1–20.

See Morabito, D.

Spinhirne, J.

42-131 Results of the Compensated Earth–Moon–Earth Retroreflector Laser Link (CEMERLL) Experiment, pp. 1–13.

See Wilson, K. E.

Srinivasan, J. M.

42-131 MicroGPS for Low-Cost Orbit Determination, pp. 1–12.

See Wu, S. C.

Srinivasan, M.

42-131 An All-Digital, High Data-Rate Parallel Receiver, pp. 1–16.

C.-C. Chen, G. Grebowsky, and A. Gray

42-132 DSN In-Band Continuous-Wave Radio Frequency Interference-Suppression Techniques, pp. 1–11.

See Tsou, H.

Stanton, P. H.

42-132 High Power-Low Noise Facility Development, pp. 1–12.

See Otoshi, T. Y.

Stewart, S.

42-129 Cammatic: Automated Compensation for DSS-13 Antenna Gravity-Loading Performance Degradation, pp. 1–4.

See Strain, D. M.

Strain, D. M.

42-129 Cammatic: Automated Compensation for DSS-13 Antenna Gravity-Loading Performance Degradation, pp. 1–4.

L. S. Alvarez, M. Moore, and S. Stewart

Sue, M. K.

42-130 A New Approach in Spacecraft Monitoring for Efficient Use of the Deep Space Network, pp. 1–17.

T. Peng and E. J. Wyatt

Tan, H.

42-129 Solar Scintillation Effects on Telecommunication Links at Ka-Band and X-Band, pp. 1–11.

See Feria, Y.

Tinto, M.

42-131 Neptune Revisited: Synthesizing Coherent Doppler From Voyager's Noncoherent Downlink, pp. 1–19.

See Rebold, T. A.

42-132 Cassini as a Narrowband Detector of Gravitational Radiation, pp. 1–8.

Tsou, H.

42-130 The Effect of Phase and Amplitude Imbalance on the Performance of BPSK/QPSK Communication Systems, pp. 1–13.

42-132 DSN In-Band Continuous-Wave Radio Frequency Interference-Suppression Techniques, pp. 1–11.

M. Srinivasan

Vilnrotter, V. A.

42-130 Iterative Information-Reduced Carrier Synchronization Using Decision Feedback for Low SNR Applications, pp. 1–21.

See Simon, M. K.

Wang, X.

42-130 Automated Generation of Antenna Tracking Plans: A Knowledge-Based Approach, pp. 1–17.

See Chien, S.

Wilson, K. E.

42-131 Results of the Compensated Earth–Moon–Earth Retroreflector Laser Link (CEMERLL) Experiment, pp. 1–13.

P. R. Leatherman, R. Cleis, J. Spinhirne, and R. Q. Fugate

Wood, G. E.

42-129 Laboratory and Flight Performance of the Mars Pathfinder (15,1/6) Convolutionally Encoded Telemetry Link, pp. 1–11.

See Harcke, L.

42-131 Mars Pathfinder Entry, Descent, and Landing Communications, pp. 1–19.

S. W. Asmar, T. A. Rebold, and R. A. Lee

Wu, S. C.

42-131 MicroGPS for Low-Cost Orbit Determination, pp. 1–12.

W. I. Bertiger, D. Kuang, S. M. Lichten, S. Nandi, L. J. Romans, and J. M. Srinivasan

Wyatt, E. J.

42-130 A New Approach in Spacecraft Monitoring for Efficient Use of the Deep Space Network, pp. 1–17.

See Sue, M. K.

Yan, T.-Y.

42-132 An Intelligent Fault Detection and Isolation Architecture for Antenna Arrays, pp. 1–15.

See Rahnamai, K.

42-132 Acquisition Performance Comparison of the Generalized Maximum A Posteriori Symbol Synchronizer Versus the Data-Transition Tracking Loop, pp. 1–13.

See Lam, L. V.

Yao, S. X.

42-129 Microwave Signal Mixing by Using a Fiber-Based Optoelectronic Oscillator for Wavelength Division Multiplexed (WDM) Systems, pp. 1-5.

See Shieh, W.