

Author Index,¹ 1996

The Telecommunications and Data Acquisition Progress Report

42-125, January–March 1996
42-126, April–June 1996
42-127, July–September 1996
42-128, October–December 1996

Andrews, M. M.

42-125 The Galileo Mission to Jupiter: Interplanetary Cruise Post-Earth-2 Encounter Through Jupiter Orbit Insertion, pp. 1–16.

See Beyer, P. E.

Araki, K.

42-128 Reduction of ETS-VI Laser Communication Equipment Optical-Downlink Telemetry Collected During GOLD, pp. 1–9.

See Toyoshima, M.

Arimoto, Y.

42-128 Reduction of ETS-VI Laser Communication Equipment Optical-Downlink Telemetry Collected During GOLD, pp. 1–9.

See Toyoshima, M.

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.

Belongie, M.

42-126 End-to-End System Consideration of the Galileo Image Compression System, pp. 1–11.

See Cheung, K.-M.

42-127 The Problem and Solution of a Twice-a-Day Frame Loss in Galileo’s Telemetry, pp. 1–8.

J. Taylor, D. Rogstad, and R. Lee

Benedetto, S.

42-126 Serial Concatenation of Interleaved Codes: Performance Analysis, Design, and Iterative Decoding, pp. 1–26.

D. Divsalar, G. Montorsi, and F. Pollara

42-127 A Soft-Input Soft-Output Maximum A Posteriori (MAP) Module to Decode Parallel and Serial Concatenated Codes, pp. 1–20.

D. Divsalar, G. Montorsi, and F. Pollara

Beyer, P. E.

42-125 The Galileo Mission to Jupiter: Interplanetary Cruise Post-Earth-2 Encounter Through Jupiter Orbit Insertion, pp. 1–16.

D. J. Mudgway and M. M. Andrews

Buchanan, H. R.

42-125 Estimating the Cost for Doing a Cost Estimate, pp. 1–5.

See Remer, D. S.

Chen, C.-C.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Cheung, K.-M.

42-126 Eigen Theory for Optimal Signal Combining: A Unified Approach, pp. 1–9.

42-126 End-to-End System Consideration of the Galileo Image Compression System, pp. 1–11.
M. Belongie and K. Tong

Conroy, B. L.

42-127 Noise Bursts and Intermodulation Products Caused by Multiple Carriers, pp. 1–8.
D. J. Hoppe

Cucchissi, J.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.
See Golshan, N.

Cwik, T.

42-128 Beam Squint Due to Circular Polarization in a Beam-Waveguide Antenna, pp. 1–10.
V. Jamnejad

Dick, G. J.

42-126 Frequency Stability of 1×10^{-13} in a Compensated Sapphire Oscillator Operating Above 77 K, pp. 1–7.
See Santiago, D. G.

Divsalar, D.

42-126 Serial Concatenation of Interleaved Codes: Performance Analysis, Design, and Iterative Decoding, pp. 1–26.

See Benedetto, S.

42-127 A Soft-Input Soft-Output Maximum A Posteriori (MAP) Module to Decode Parallel and Serial Concatenated Codes, pp. 1–20.

See Benedetto, S.

Feria, Y.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Folkner, W. M.

42-128 DSN Station Locations and Uncertainties, pp. 1–34.

Gawronski, W.

42-127 An H_∞ Controller With Wind Disturbance Rejection Properties for the DSS-13 Antenna, pp. 1–15.

Gillam, S. D.

42-125 JPL Table Mountain Facility Support of the Ground/Orbiter Lasercomm Demonstration, pp. 1–11.

J. W. Young and D. R. Sidwell

42-128 Ephemeris Generation for ETS-VI and Its Effects on Pointing Strategies Adopted for Daytime Acquisition and Tracking, pp. 1–11.

See Owen, Jr., W. M.

Golshan, N.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.

W. Rafferty, C. Ruggier, M. Wilhelm, B. Hagerty, M. Stockett, J. Cucchissi, and D. McWatters

Graham, J. S.

42-128 Node Synchronization in the Block III Maximum-Likelihood Convolutional Decoder, pp. 1–12.

See Layland, J. M.

Hagerty, B.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.

See Golshan, N.

Hamdan, K.

42-125 The Performance of a Coherent Residual Carrier PSK System Using Hybrid Carrier Phase Synchronization, pp. 1–21.

See Simon, M. K.

42-128 High-Dynamic Frequency Tracking Using Wavelets, pp. 1–12.

H. Tsou and S. M. Hinedi

Hampshire II, J. B.

42-126 Automated Downlink Analysis for the Deep Space Network, pp. 1–19.

See Watola, D.

Harcke, L. J.

42-125 Recent Ka-Band Weather Statistics for Goldstone and Madrid, pp. 1–12.

P. F. Yi, M. K. Sue, and H. H. Tan

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Hemmati, H.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

K. Wilson, M. K. Sue, L. J. Harcke, M. Wilhelm, C.-C. Chen, J. R. Lesh, Y. FERIA, D. Rascoe, F. Lansing, and J. W. Layland

Hinedi, S. M.

42-125 The Performance of a Coherent Residual Carrier PSK System Using Hybrid Carrier Phase Synchronization, pp. 1–21.

See Simon, M. K.

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

See Tsou, H.

42-127 Optimum Strategies for Monitoring the Operational Status of a Spacecraft, pp. 1–51.

See Simon, M. K.

42-128 Effects of Symbol Transition Density on Tracking and Acquisition Performance of the Data Transition Tracking Loop at Low Signal-to-Noise Ratios, pp. 1–9.

See Million, S.

42-128 High-Dynamic Frequency Tracking Using Wavelets, pp. 1–12.

See Hamdan, K.

Hoppe, D. J.

42-127 Noise Bursts and Intermodulation Products Caused by Multiple Carriers, pp. 1–8.

See Conroy, B. L.

Horttor, R. L.

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

See Tsou, H.

Hurd, W. J.

42-128 Optimum and Practical Noncausal Smoothing Filters for Estimating Carrier Phase With Phase Process Noise, pp. 1–7.

Iijima, B.

42-125 Analysis of Array Feed Combining Performance Using Recorded Data, pp. 1–13.

See Vilmrotter, V.

James, J.

42-128 Results From Phase-1 and Phase-2 GOLD Experiments, pp. 1–11.

See Wilson, K.

Jamnejad, V.

42-128 Beam Squint Due to Circular Polarization in a Beam-Waveguide Antenna, pp. 1–10.

See Cwik, T.

Jeganathan, M.

42-128 Reduction of ETS-VI Laser Communication Equipment Optical-Downlink Telemetry Collected During GOLD, pp. 1–9.

See Toyoshima, M.

42-128 Results From Phase-1 and Phase-2 GOLD Experiments, pp. 1–11.

See Wilson, K.

Kayalar, S.

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

See Tsou, H.

Keihm, S. J.

42-126 A Demonstration of Precise Calibration of Tropospheric Delay Fluctuations With Water Vapor Radiometers, pp. 1–8.

See Teitelbaum, L. P.

42-127 Advanced Algorithm and System Development for Cassini Radio Science Tropospheric Calibration, pp. 1–20.

K. A. Marsh

Lam, L.

42-128 Performance of Pulse Code Modulation/Phase Modulation Receivers With Nonideal Data, pp. 1–17.

S. Million

Lansing, F.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Layland, J. M.

42-128 Node Synchronization in the Block III Maximum-Likelihood Convolutional Decoder, pp. 1–12.

J. S. Graham

Layland, J. W.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Lee, R.

42-127 The Problem and Solution of a Twice-a-Day Frame Loss in Galileo’s Telemetry, pp. 1–8.

See Belongie, M.

Lesh, J. R.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

42-128 Reduction of ETS-VI Laser Communication Equipment Optical-Downlink Telemetry Collected During GOLD, pp. 1–9.

See Toyoshima, M.

42-128 Results From Phase-1 and Phase-2 GOLD Experiments, pp. 1–11.

See Wilson, K.

Linfield, R. P.

42-126 A Demonstration of Precise Calibration of Tropospheric Delay Fluctuations With Water Vapor Radiometers, pp. 1–8.

See Teitelbaum, L. P.

Mahoney, M. J.

42-126 A Demonstration of Precise Calibration of Tropospheric Delay Fluctuations With Water Vapor Radiometers, pp. 1–8.

See Teitelbaum, L. P.

Maleki, L.

42-126 Record Atomic Frequency Standard Stability With Mercury in a Linear Ion Trap, pp. 1–7.

See Tjoelker, R. L.

Marsh, K. A.

42-127 Advanced Algorithm and System Development for Cassini Radio Science Tropospheric Calibration, pp. 1–20.

See Keihm, S. J.

Mayes, D. L.

42-128 Ephemeris Generation for ETS-VI and Its Effects on Pointing Strategies Adopted for Daytime Acquisition and Tracking, pp. 1–11.

See Owen, Jr., W. M.

McWatters, D.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.

See Golshan, N.

Mileant, A.

42-127 Optimum Strategies for Monitoring the Operational Status of a Spacecraft, pp. 1–51.

See Simon, M. K.

Million, S.

42-126 The Power Spectrum of Unbalanced NRZ and Biphase Signals in the Presence of Data Asymmetry, pp. 1–11.

See Simon, M. K.

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

See Tsou, H.

42-127 Residual Versus Suppressed-Carrier Coherent Communications, pp. 1–9.

See Simon, M. K.

42-128 Effects of Symbol Transition Density on Tracking and Acquisition Performance of the Data Transition Tracking Loop at Low Signal-to-Noise Ratios, pp. 1–9.

S. M. Hinedi

42-128 Performance of Pulse Code Modulation/Phase Modulation Receivers With Nonideal Data, pp. 1–17.

See Lam, L.

42-128 Power Spectral Density of Digital Pulse Streams in the Presence of Timing Jitter, pp. 1–18.

See Win, M. Z.

Montorsi, G.

42-126 Serial Concatenation of Interleaved Codes: Performance Analysis, Design, and Iterative Decoding, pp. 1–26.

See Benedetto, S.

42-127 A Soft-Input Soft-Output Maximum A Posteriori (MAP) Module to Decode Parallel and Serial Concatenated Codes, pp. 1–20.

See Benedetto, S.

Moore, W. V.

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

See Tsou, H.

Morabito, D. D.

42-125 The Efficiency Characterization of the DSS-13 34-Meter Beam-Waveguide Antenna at Ka-Band (32.0 and 33.7 GHz) and X-Band (8.4 GHz), pp. 1–20.

Mudgway, D. J.

42-125 The Galileo Mission to Jupiter: Interplanetary Cruise Post-Earth-2 Encounter Through Jupiter Orbit Insertion, pp. 1–16.

See Beyer, P. E.

Naudet, C. J.

42-126 Estimation of Tropospheric Fluctuations Using GPS Data, pp. 1–19.

Nguyen, T. M.

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

See Tsou, H.

Owen, Jr., W. M.

42-128 Ephemeris Generation for ETS-VI and Its Effects on Pointing Strategies Adopted for Daytime Acquisition and Tracking, pp. 1–11.

S. D. Gillam, J. W. Young, and D. L. Mayes

Pasqualino, C.

42-128 Characterization of the Avalanche Photo Diode Detector Used for Optical Communications Experiments With the Japanese ETS-VI, pp. 1–8.

Pollara, F.

42-126 Serial Concatenation of Interleaved Codes: Performance Analysis, Design, and Iterative Decoding, pp. 1–26.

See Benedetto, S.

42-127 A Soft-Input Soft-Output Maximum A Posteriori (MAP) Module to Decode Parallel and Serial Concatenated Codes, pp. 1–20.

See Benedetto, S.

Prestage, J. D.

42-126 Record Atomic Frequency Standard Stability With Mercury in a Linear Ion Trap, pp. 1–7.

See Tjoelker, R. L.

Rafferty, W.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.

See Golshan, N.

Rascoe, D.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Remer, D. S.

42-125 Estimating the Cost for Doing a Cost Estimate, pp. 1–5.

H. R. Buchanan

Resch, G. M.

42-126 A Demonstration of Precise Calibration of Tropospheric Delay Fluctuations With Water Vapor Radiometers, pp. 1–8.

See Teitelbaum, L. P.

Rogstad, D.

42-127 The Problem and Solution of a Twice-a-Day Frame Loss in Galileo's Telemetry, pp. 1–8.

See Belongie, M.

Ruggier, C.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.

See Golshan, N.

Santiago, D. G.

42-126 Frequency Stability of 1×10^{-13} in a Compensated Sapphire Oscillator Operating Above 77 K, pp. 1–7.

G. J. Dick and R. T. Wang

Sidwell, D. R.

42-125 JPL Table Mountain Facility Support of the Ground/Orbiter Lasercomm Demonstration, pp. 1–11.

See Gillam, S. D.

Simon, M. K.

42-125 The Performance of a Coherent Residual Carrier PSK System Using Hybrid Carrier Phase Synchronization, pp. 1–21.

H. Tsou, S. M. Hinedi, and K. Hamdan

42-126 The Power Spectrum of Unbalanced NRZ and Biphasic Signals in the Presence of Data Asymmetry, pp. 1–11.

S. Million

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

See Tsou, H.

42-127 Optimum Strategies for Monitoring the Operational Status of a Spacecraft, pp. 1–51.

V. Vilnrotter, A. Mileant, and S. M. Hinedi

42-127 Residual Versus Suppressed-Carrier Coherent Communications, pp. 1–9.

S. Million

42-128 Power Spectral Density of Digital Pulse Streams in the Presence of Timing Jitter, pp. 1–18.

See Win, M. Z.

Stockett, M.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.

See Golshan, N.

Sue, M. K.

42-125 Recent Ka-Band Weather Statistics for Goldstone and Madrid, pp. 1–12.

See Harcke, L. J.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Tan, H. H.

42-125 Recent Ka-Band Weather Statistics for Goldstone and Madrid, pp. 1–12.

See Harcke, L. J.

Taylor, J.

42-127 The Problem and Solution of a Twice-a-Day Frame Loss in Galileo’s Telemetry, pp. 1–8.

See Belongie, M.

Teitelbaum, L. P.

42-126 A Demonstration of Precise Calibration of Tropospheric Delay Fluctuations With Water Vapor Radiometers, pp. 1–8.

R. P. Linfield, G. M. Resch, S. J. Keihm, and M. J. Mahoney

Tinto, M.

42-125 The Search for Gravitational Waves Via a Xylophone, pp. 1–17.

Tjoelker, R. L.

42-126 Record Atomic Frequency Standard Stability With Mercury in a Linear Ion Trap, pp. 1–7.

J. D. Prestage and L. Maleki

Tong, K.

42-126 End-to-End System Consideration of the Galileo Image Compression System, pp. 1–11.

See Cheung, K.-M.

Toyoda, M.

42-128 Reduction of ETS-VI Laser Communication Equipment Optical-Downlink Telemetry Collected During GOLD, pp. 1–9.

See Toyoshima, M.

Toyoshima, M.

42-128 Reduction of ETS-VI Laser Communication Equipment Optical-Downlink Telemetry Collected During GOLD, pp. 1–9.

K. Araki, Y. Arimoto, M. Toyoda, M. Jeganathan, K. Wilson, and J. R. Lesh

Tsou, H.

42-125 The Performance of a Coherent Residual Carrier PSK System Using Hybrid Carrier Phase Synchronization, pp. 1–21.

See Simon, M. K.

42-127 Description of Communication System Options for Single-Aperture Multiple-Link (SAML) Mission Support, pp. 1–58.

S. Million, S. M. Hinedi, T. M. Nguyen, M. K. Simon, W. V. Moore, S. Kayalar, and R. L. Horttor

42-128 High-Dynamic Frequency Tracking Using Wavelets, pp. 1–12.

See Hamdan, K.

Vilnrotter, V.

42-125 Analysis of Array Feed Combining Performance Using Recorded Data, pp. 1–13.

B. Iijima

42-127 Optimum Strategies for Monitoring the Operational Status of a Spacecraft, pp. 1–51.

See Simon, M. K.

Walter, S. J.

42-125 Precipitation Statistics for the Deep Space Network, pp. 1–11.

Wang, R. T.

42-126 Frequency Stability of 1×10^{-13} in a Compensated Sapphire Oscillator Operating Above 77 K, pp. 1–7.

See Santiago, D. G.

Watola, D.

42-126 Automated Downlink Analysis for the Deep Space Network, pp. 1–19.

J. B. Hampshire II

Wilhelm, M.

42-125 Low Earth Orbiter Demonstration Terminal, pp. 1–15.

See Golshan, N.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

Wilson, K.

42-128 Comparative Study of Optical and Radio-Frequency Communication Systems for a Deep-Space Mission, pp. 1–33.

See Hemmati, H.

42-128 Reduction of ETS-VI Laser Communication Equipment Optical-Downlink Telemetry Collected During GOLD, pp. 1–9.

See Toyoshima, M.

42-128 Results From Phase-1 and Phase-2 GOLD Experiments, pp. 1–11.

M. Jeganathan, J. R. Lesh, J. James, and G. Xu

Win, M. Z.

42-128 Power Spectral Density of Digital Pulse Streams in the Presence of Timing Jitter, pp. 1–18.

S. Million and M. K. Simon

Xu, G.

42-128 Results From Phase-1 and Phase-2 GOLD Experiments, pp. 1–11.

See Wilson, K.

Yi, P. F .

42-125 Recent Ka-Band Weather Statistics for Goldstone and Madrid, pp. 1–12.

See Harcke, L. J.

Young, J. W .

42-125 JPL Table Mountain Facility Support of the Ground/Orbiter Lasercomm Demonstration, pp. 1–11.

See Gillam, S. D.

42-128 Ephemeris Generation for ETS-VI and Its Effects on Pointing Strategies Adopted for Daytime Acquisition and Tracking, pp. 1–11.

See Owen, Jr., W. M.