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Non-linear filtering applied to the estimation of the ...

The implementation of the nonlinear filter based on the use of a DSP has the advantage of being very versatile and easy to modify but also has the disadvantage of the processing speed References: [1]Ryu S, Coherent lightwave communication systems, Artech House, Inc, 1995 [2]FDavid, CRapp, Breadboard model of a coherent

3048 JOURNAL OF LIGHTWAVE TECHNOLOGY, VOL. 26, NO. 17 ...

the bandwidth of interest for optical coherent transmission sys-tems In orderto fit theexperimentaldataobtainedin thefollowing sections, a nonlinear least squares method was employed The nonlinear model used for such a fitting is based on a derivation of (2) (3) where the function is the single-sided phase noise PSD measured in dBc and III

502 JOURNAL OF LIGHTWAVE TECHNOLOGY Fiber Impairment ...

502 JOURNAL OF LIGHTWAVE TECHNOLOGY Fiber Impairment Compensation Using Coherent Detection and Digital Signal Processing Ezra M Ip and Joseph M Kahn, Fellow, IEEE (Invited Paper) Abstract—Next-generation optical fiber systems will employ coherent detection to improve power and spectral efficiency, and

Digital coherent optical communication systems ...

teristics of multi-level optical signals, and future prospects of coherent optical communications

Keywords: coherent optical communications, multi-level modula-tion, homodyne detection

Classification: Fiber-optic communication References [1] T Okoshi and K Kikuchi, Coherent Optical Communication Systems, KTK, Tokyo, Kluwer, Dordrecht

Phase- and polarization-diversity coherent optical ...

JOURNAL OF LIGHTWAVE TECHNOLOGY VOL 7 NO 2 FEBRUARY 1989 219 Phase- and Polarization-Diversity Coherent Optical Techniques Abstract-Progress in phase- and polarization-diversity coherent

optical techniques has led to impressive receivers able to tolerate wide laser linewidth and large polarization fluctuations This paper reviews the advantages and the drawbacks of diversity ...

Roadmap of optical communications

Lightwave communications is a necessity for the information age Optical links provide enormous bandwidth, and the optical fiber is the only medium that can meet the modern society's needs for transporting massive amounts of data over long distances Applications range from global high-

Comparison of analytical models for the nonlinear noise in ...

Comparison of analytical models for the nonlinear noise in dispersive coherent optical communications systems I Roudas (1), N Kaliteevskiy (2), P Sterlingov (2), and W A Wood (1)

Coherent detection in optical fiber systems

7 K Kikuchi, "Coherent detection of phase-shift keying signals using digital carrier-phase estimation," in Proceedings of IEEE Conference on Optical Fiber Communications, (Institute of Electrical and Electronics Engineers, Anaheim, 2006), Paper OTuI4

Ultrafast optical pulse shaping: A tutorial review

coherent control of nonlinear and quantum mechanical processes and in lightwave communications The applications selected represent examples of "open-loop" pulse shaping control which lend themselves to intuitive understanding Sections 6 and 7 cover two frontier areas in pulse shaping, with examples drawn primarily from work in the

Perspective of Statistical Learning for Nonlinear ...

Perspective of Statistical Learning for Nonlinear Equalization in Coherent Optical Communications Toshiaki Koike-Akino Mitsubishi Electric Research Laboratories (MERL), 201 Broadway, Cambridge, MA 02139, USA koike@merl.com Abstract: Modern statistical learning technologies such ...

Nonlinear inverse synthesis for high spectral efficiency ...

Nonlinear inverse synthesis for high spectral efficiency transmission in optical fibers Son Thai Le*, Jaroslaw E Prilepsky, and Sergei K Turitsyn Aston Institute of Photonic Technologies, Aston University, Birmingham B4 7ET, UK

Nonlinearity-free Coherent Transmission in Hollow-Core ...

not been confirmed Further, no study of nonlinear transmission impairments in HC-ARF has been reported to date In this paper, we show the significant potential of HC-ARF for optical communications by demonstrating the coherent transmission of a very high-order modulation format

Unveiling nonlinear effects in dense coherent optical WDM ...

Unveiling nonlinear effects in dense coherent optical WDM systems with Volterra series Jacklyn D Reis^{1,*} and António L Teixeira^{1,2} ¹Instituto de Telecomunicações, Universidade de Aveiro, 3810

Coherent ultrashort light pulse code-division multiple ...

478 Coherent JOURNAL OF LIGHTWAVE TECHNOLOGY, VOL 8 NO 3 MARCH 1990 Ultrashort Light Pulse Code-Division Multiple Access Communication Systems JAWAD A SALEHI, MEMBER, IEEE, ANDREW M WEINER, AND JONATHAN P HERITAGE, SENIOR MEMBER, IEEE Abstract-We analyze a new technique for encoding and decoding of

Soliton-based ultra-high speed optical communications

Ultra-high speed optical communications $\Delta\Phi_N = kNz \omega c n_2 j E^- 2z 2\pi n_2 j E^- 2 \lambda: (8)$ Here n_0 is the linear index of refraction and n_2 is the Kerr coefficient having a value 10^{-22} (m/V)² For a lightwave with a peak power of 1 mW, $j E^-$ becomes about 105 V/m in a typical fiber

Channel-Aware Multilevel Coded Modulation for Coherent ...

ulation Scheme for Fiber Optical Channel with Nonlinear Phase Noise," in Proceedings of IEEE Global Communications Conference, Miami, USA, December 2010 Paper D L Beygi, E Agrell, and M Karlsson, "On the Dimensionality of Multilevel Coded Modulation in the High SNR Regime," IEEE Communications Letters, vol 14, no 11,

Long-haul coherent communications using microresonator ...

Qi, and A M Weiner, "Long-Haul Coherent Transmission Using a Silicon Nitride Microresonator-Based Frequency Comb as WDM Source," in Conference on Lasers and Electro-Optics

Achievable rate degradation of ultra-wideband coherent ...

Achievable rate degradation of ultra-wideband coherent fiber communication systems due to stimulated Raman scattering DANIEL SEMRAU,^{1,*} ROBERT KILLEY,¹ AND POLINA BAYVEL¹ ¹Optical Networks Group (ONG), Department of Electronic & Electrical Engineering, UCL (University College London), Torrington Place, London WC1E 7JE, UK

Alamouti-type polarization-time coding in coded-modulation ...

Alamouti-type polarization-time coding in coded-modulation schemes with coherent detection Ivan B Djordjevic, Lei Xu*, and Ting Wang* University of Arizona, Department of Electrical and Computer Engineering, Tucson, AZ 85721, USA

Modulation format dependence of digital nonlinearity ...

Modulation format dependence of digital nonlinearity compensation performance in optical fibre communication systems TIANHUA XU,^{1,*} NIKITA A SHEVCHENKO,¹ DOMANIÇ LAVERY,¹ DANIEL

SEMRAU,¹ GABRIELE LIGA,¹ ALEX ALVARADO,² ROBERT I KILLEY,¹ AND POLINA BAYVEL ¹
 1Optical Networks Group, Department of Electronic and Electrical Engineering, University College

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