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Chaotic Optical Communication Systems With Enhanced Security

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communication systems with enhanced security below.

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Communication Systems Troubleshooting Coherent Optical
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high speed random bit generation ~~The Race For Quantum
Supremacy~~ Electro-optic phase delay oscillator: nonlocal character,

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Security, and field experiment of 10G... Cheng

Peng—Dynamically programmable surfaces for high-speed optical modulation

Chaotic Optical Communication Systems With

The experimental demonstration of chaotic communication with an optical system is described. An erbium-doped fiber ring laser (EDFRL) was used to produce chaotic light with a wavelength of 1.53 ...

(PDF) Optical Communication with Chaotic Waveforms

Chaotic optical communication system is modern communication scheme that utilizes optical chaotic waveform to transmit information at high bit rate.

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Optical Communication with Chaotic Lasers: Applications of ...
The demonstration of transmission and reception of information with synchronized electronic circuits raised the question of optical communication with chaotic lasers. Communication with light waves...

Communication with Chaotic Lasers | Science
Chaotic optical communications were originally proposed to provide high-level physical layer security for optical communications. Limited by the difficulty of chaos synchronization, there has been little experimental demonstration of high-speed

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Chaotic optical communications, and point to multipoint chaotic optical networking is hard to implement.

OSA | 32 Gb/s chaotic optical communications by deep ...

A careful comparison is made between experimental results and two models describing optical synchronisation of chaotic external cavity semiconductor lasers. It is demonstrated that optical synchronisation regimes for chaotic semiconductor lasers in a master – slave configuration are dependent both on the frequency detuning between the master and slave lasers and also on the slave laser output ...

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Synchronisation regimes in chaotic optical communication ...

As it carries the information, the chaotic signal is also called chaotic carrier. Synchronizing of these oscillators is similar to synchronizing random neural nets in neural cryptography. When chaos synchronization is used, a basic scheme of a communications device (Cuomo and Oppenheim 1993) is made by two identical chaotic oscillators. One of them is used as the transmitter, and the other as the receiver.

Chaos communications - Wikipedia

Journal article 396 views. Synchronisation regimes in chaotic optical communication systems / Paul, Rees. IEE Proceedings - Optoelectronics, Volume: 150, Issue: 2, Pages: 191 - 198

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Synchronisation regimes in chaotic optical communication ...

Recently, multiaccess optical chaos communication systems based on wavelength division multiplexing (WDM) using mutually coupled chaotic lasers have been proposed , , , , which is a promising candidate for the next-generation optical network. Consequently, motivated by the broadband and secure characteristics of optical injection hybrid systems, we propose a novel WDM-based chaos secure communication scheme with the concealment of TDS.

WDM-based bidirectional chaotic communication for ...

Compared with traditional circuit chaotic systems, the optical chaos

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Security system using semiconductor lasers (SLs) has a larger bandwidth, lower attenuation in optical fiber link, the complex dynamics, as well as stronger anti-interception ability and better security performance . Typically, in optical chaos system, the chaotic signal, generated by SL subject to optical feedback, is acted as carrier in which message is encrypted.

Time-delay signature concealment in chaotic secure ...
laser source, since broad-band chaotic signals can be obtained by optical control. The techniques of CMO, CMA, and CSK can be applied to chaotic secure communications using semi-conductor lasers in various system configurations. We can use either complete or generalized synchronization schemes for chaos communications,

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although the robustness of the

Chaos synchronization and chaotic signal masking in ...

At a first glance, it looks like the chaotic systems are curiosities, which may not find a practical application in communication systems in particular in optical communications but it is not so. It has been proved both theoretically and experimentally that a semiconductor laser with an appropriate feedback (optical or optoelectronic) generates optical flux changing in time in chaotic way.

Chaotic systems in optical communications, Proceedings of ...

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Buy Optical Communication with Chaotic Lasers: Applications of Nonlinear Dynamics and Synchronization by Atsushi Uchida (ISBN: 9783527408696) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Optical Communication with Chaotic Lasers: Applications of ...

ABSTRACT The ability of chaotic carriers to synchronize in optical chaotic communication systems is studied experimentally under a spectral domain analysis. Synchronization of high-frequency components up to tens of gigahertz of the chaotic carriers

Spectral synchronization in chaotic optical communication ...

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Security A complete high bit rate optical communication system based on chaotic carriers is developed, followed by a successful encoding and decoding process. We confirm that the insertion of 100 km conventional optical fiber for telecommunication applications, as the transmission medium, has a minimal effect for bit rates of the order of 1 Gb/s.

High bit rate optical communication systems based on ... chaotic signals is available from other optical systems like semiconductor lasers with injection current modulation [17], where a modulation frequency in the GHz range ensures a good transmitting speed for the bits.

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OPTICAL COMMUNICATION METHODS BASED ON CHAOTIC LASER SIGNALS

Abstract In this study we present the influence imposed by the coexistence of wavelength division multiplexed (WDM) channels on a chaotic optical communication system tested in an installed network environment.

OSA | Transmission Effects in Wavelength Division ...
Optical Communication with Chaotic Lasers: Applications of
Nonlinear Dynamics and Synchronization: Uchida, Atsushi:
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Optical Communication with Chaotic Lasers: Applications of ...
Health Monitoring of Long-Haul Fiber Communication System
Using Chaotic OTDR: Mengmeng Chen 1, Mingjiang Zhang 2,3,* ,
Shaoxiang Chen 4, Jianguo Zhang 2,3, Senlin Yan 1, Yuncai Wang
5: 1 School of Electronic Engineering, Nanjing Xiaozhuang
University, Nanjing 211171, China; 2 Key Lab of Advanced
Transducers and Intelligent Control Systems, Ministry of Education
and Shanxi Province, Taiyuan ...

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