

Valeria Vercesi - List of Publications

JOURNALS

- V. Vercesi, M. Scaffardi, A. Bogoni, "NRZ/RZ 40 Gbit/s optical regenerator based on a photonic two-level nonlinear device", *Optics Letters*, Vol. 38 no. 11, pp.1954-1956, 2013
- A. Malacarne, E. Lazzeri, V. Vercesi, M. Scaffardi, A. Bogoni, "Colorless all-optical sum and subtraction of phases for phase-shift keying signals based on a periodically poled lithium niobate waveguide", *Optics Letters*, vol. 37, no. 18, pp. 3831-3833, 2012
- J. Kreissl, V. Vercesi, U. Troppenz, W. Wenish, M. Shell "Up to 40 Gb/s Directly Modulated Laser Operating at Low Driving Current: Buried-Heterostructure Passive Feedback Laser (BH-PFL)", *IEEE Photonics Technology Letters*, vol. 24, no. 5, pp. 362–364, 2012
- V. Annovazzi-Lodi, G. Aromataris, M. Benedetti, M. Hamacher, S. Merlo, V. Vercesi, "Close-loop three-laser scheme for chaos-encrypted message transmission", *Optical and Quantum Electronics*, vol. 42, no. ,143-156, 2010
- V.Z. Tronciu, C.R. Mirasso, P. Colet, M. Hamacher, M. Benedetti, V. Vercesi, V. Annovazzi-Lodi, "Chaos Generation and Synchronization Using an Integrated Source With an Air Gap", *IEEE Journal of Quantum Electronics*, vol.46, no. 12, pp.1840-1846, 2010

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- N.P Diamantopoulos, V. Vercesi, M. Scaffardi, A. Bogoni, "Modelling of an optical threshold element based On SOAs", 5th International Conference on Computers and Devices for Communication (CODEC), 17-19 December 2012
- M. Scaffardi, V. Vercesi, S. Pinna, A. Bogoni, "All-Optical SOA-Assisted 40 Gbit/s DQPSK-to-OOK Format Conversion", *Proceedings of OSC, 4th International Workshop on Optical SuperComputing in Bertinoro*, Bertinoro, Italy, 19-21 July 2012
- V. Vercesi, M. Benedetti, V. Annovazzi, V.Z. Tronciu, M. Hamacher, "Chaos Communications Using Integrated Sources with Multiple optical Feedback", *Proceeding of ESLW, European Semiconductor Laser Workshop*, Pavia, Italy, p. 37, 24-25 September 2010
- M. Benedetti, V. Annovazzi, G. Aromataris, S. Merlo, V. Vercesi, M. Hamacher, "Multisection Integrated Modules for Chaos Applications", *Proceeding of ESLW, European Semiconductor Laser Workshop*, Pavia, Italy, p. 33, 24-25 September 2010
- V. Annovazzi-Lodi, G. Aromataris, M. Benedetti, S. Merlo, V. Vercesi, M. Hamacher, "Three-Laser close-loop Scheme for Transmission of Messages Encrypted with Optical Chaos", *Atti di Fotonica 2010, 12° Convegno Nazionale delle Tecnologie Fotoniche*, Pisa, Italy, 25-27 May 2010
- V. Annovazzi-Lodi, G. Aromataris, M. Benedetti, S. Merlo, V. Vercesi, "Secure Data Transmission Using Twin Semiconductor Lasers Routed to Chaos and Synchronized by Electrical Injection", *Atti di Fotonica 2010, 12° Convegno Nazionale delle Tecnologie Fotoniche*, Pisa, Italy, 25-27 May 2010
- V. Annovazzi-Lodi, G. Aromataris, M. Benedetti, S. Merlo, V. Vercesi, "Secure Transmission with Chaotic Lasers Synchronized by Electrical Injection", *Proceedings of OECC 2009, 14 the Optoelectronics and Communications Conference*, Hong Kong, ThI7, 13-17 July 2009
- V. Annovazzi-Lodi, G. Aromataris, M. Benedetti, S. Merlo, V. Vercesi, "Chaotic Transmission System in Free Space", *book of abstract of workshop CATS, Chaos and Applications in Telecommunications and Sensing*, Chania, p.121, 2-3 June 2009