

Mirco Scaffardi – List of publications

— Patent proposals

1. Bogoni A., Ghelfi P., **Scaffardi M.**, and Potì L., "Optical signal regenerator for high bit-rate transmission systems ", PCT/EP2004/051968, 24.03.2005 (filed 31/08/2004).
2. Ghelfi P., **Scaffardi M.**, Bogoni A., and Potì L., "Optical receiver scheme with all-optical decision element", PCT/EP2006/009428, 12.04.2007 (filed 28/09/2006).
3. Bogoni A., **Scaffardi M.**, and Potì L., "Improvements in or relating to the sampling of optical signals", PCT/EP2007/050083, 10.07.2008 (filed 04/01/2007).
4. Bogoni a., Potì L., **Scaffardi M.**, "Optical processing apparatus", PCT/EP2006/012576, 10/07/2008 (filed 28/12/2006).
5. **Scaffardi M.**, Berrettini G., Di Muro R., Nayar B., Potì L., Bogoni A., "Ethernet transmitter apparatus", PCT/EP2008/053149, 02/04/2009 (filed 17/03/2008).
6. Bogoni A., Potì L., **Scaffardi M.**, "All optical logic gate implementing NOR function cascaded NOR/AND function", PCT/EP2007/054235, 06/11/2008, (filed 01/05/2007).
7. Bogoni A., Potì L., and **Scaffardi M.**, "All-Optical processing circuit for conflict resolution and switch configuration in a 2x2 optical node", PCT/EP2007/054234, 06/11/2008 (filed 01/05/2007).
8. Bogoni A., Potì L., **Scaffardi M.**, "Optical circuit for comparing two N-bit binary words", PCT/EP2007/057886, 05/02/2009 (filed 31/07/2007).
9. Bogoni A., Potì L., **Scaffardi M.**, Ghelfi P., "Optical pulse generation", PCT/EP2008/053870, 04/06/2009 (filed 01/04/2008).
10. Bogoni A., Potì L., Andriolli N., **Scaffardi M.**, Berrettini G., Castoldi P., "An optical switch controller", PCT/EP2007/057920, 05/02/2009 (filed 31/07/2007).
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12. Bogoni A., Potì L., **Scaffardi M.**, and Ghelfi P. "Improvements in extracting optical labels", PCT/EP2009/063722 07/04/2011 (filed 20/10/2009).
13. Bogoni A., Potì L., and **Scaffardi M.**, "Optical analogue to digital converter", PCT/EP2008/064789 06/05/2010 (filed 31/10/2008).
14. **Scaffardi M.**, Berrettini, G., Bogoni A., "Optical linear feedback circuit", 13041968, 30/08/2012 (filed 07/03/2011).

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1. Vercesi V., **Scaffardi M.**, Bogoni A., "NRZ/RZ 40 Gbit/s optical regenerator based on a photonic two-level nonlinear device", vol. 38, n. 11, pp. 1954-1956, June 2013, ISSN: 01469592, DOI: 10.1364/OL.38.001954.
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3. Malacarne A., Lazzeri E., Vercesi V., **Scaffardi M.**, Bogoni A., "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, n. 18, pp. 3831-3833, 2012, ISSN: 01469592.

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- Decision Element in Band-Limited Receivers for RZ Systems", *IEEE J. of Lightwave Technol.*, vol. 25, no. 7, pp. 1728-1734, July 2007.
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5. Fresi F., **Scaffardi M.**, Amaya N., Nejabati R., Simeonidou D., Bogoni A., "Single SOA-MZI-based 40 Gb/s NRZ to RZ and OOK to BPSK Format and Wavelength Converters for Gridless Networking", in Proc. *IEEE Photonics 2011 Conference (IPC11)*, WO3, Arlington, USA, October 9-13, 2011.
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Pisa, 04/11/2013

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