

640 Gbit/s return-to-zero to non-return-to-zero format conversion based on optical linear spectral phase filtering - DTU Orbit (08/11/2017)

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We propose a novel approach for all-optical return-to-zero (RZ) to non-return-to-zero (NRZ) telecommunication data format conversion based on linear spectral phase manipulation of an RZ data signal. The operation principle is numerically analyzed and experimentally validated through successful format conversion of a 640 Gbit/s coherent RZ signal into the equivalent NRZ time-domain data using a simple phase filter implemented by a commercial optical waveshaper. (C) 2015 Optical Society of America

General information

State: Published

Organisations: High-Speed Optical Communication, Department of Photonics Engineering, Centre of Excellence for Silicon Photonics for Optical Communications, Institut National de la Recherche Scientifique

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Pages: 64-67

Publication date: 2016

Main Research Area: Technical/natural sciences

Publication information

Journal: Optics Letters

Volume: 41

Issue number: 1

ISSN (Print): 0146-9592

Ratings:

BFI (2017): BFI-level 2

Web of Science (2017): Indexed yes

BFI (2016): BFI-level 2

Scopus rating (2016): CiteScore 3.54 SJR 1.864 SNIP 1.658

Web of Science (2016): Indexed yes

BFI (2015): BFI-level 2

Scopus rating (2015): SJR 2.142 SNIP 1.642 CiteScore 3.53

Web of Science (2015): Indexed yes

BFI (2014): BFI-level 2

Scopus rating (2014): SJR 2.497 SNIP 2.056 CiteScore 3.86

Web of Science (2014): Indexed yes

BFI (2013): BFI-level 2

Scopus rating (2013): SJR 2.458 SNIP 2.095 CiteScore 3.95

ISI indexed (2013): ISI indexed yes

Web of Science (2013): Indexed yes

BFI (2012): BFI-level 2

Scopus rating (2012): SJR 2.596 SNIP 1.95 CiteScore 3.52

ISI indexed (2012): ISI indexed yes

Web of Science (2012): Indexed yes

BFI (2011): BFI-level 2

Scopus rating (2011): SJR 2.518 SNIP 2.475 CiteScore 3.69

ISI indexed (2011): ISI indexed yes

Web of Science (2011): Indexed yes

BFI (2010): BFI-level 2

Scopus rating (2010): SJR 2.669 SNIP 2.293

Web of Science (2010): Indexed yes

BFI (2009): BFI-level 1

Scopus rating (2009): SJR 3.167 SNIP 2.665

Web of Science (2009): Indexed yes

BFI (2008): BFI-level 1

Scopus rating (2008): SJR 3.408 SNIP 2.378

Web of Science (2008): Indexed yes

Scopus rating (2007): SJR 3.489 SNIP 2.102

Web of Science (2007): Indexed yes
Scopus rating (2006): SJR 3.143 SNIP 2.334
Web of Science (2006): Indexed yes
Scopus rating (2005): SJR 3.251 SNIP 2.483
Web of Science (2005): Indexed yes
Scopus rating (2004): SJR 3.521 SNIP 2.718
Web of Science (2004): Indexed yes
Scopus rating (2003): SJR 3.708 SNIP 2.573
Web of Science (2003): Indexed yes
Scopus rating (2002): SJR 3.702 SNIP 2.39
Web of Science (2002): Indexed yes
Scopus rating (2001): SJR 3.62 SNIP 2.244
Web of Science (2001): Indexed yes
Scopus rating (2000): SJR 3.416 SNIP 1.705
Web of Science (2000): Indexed yes
Scopus rating (1999): SJR 4.044 SNIP 1.699

Original language: English

OPTICS, RZ, RESONATOR, FIBER

DOIs:

10.1364/OL.41.000064

Source: FindIt

Source-ID: 2289825660

Publication: Research - peer-review › Journal article – Annual report year: 2016