omissis

Personal information	
Surname / First name	Lazzeri Emma, PhD
Address	omissis
Mobile	omissis (private), +39 333 4928 920 (work)
E-mail	emma.lazzeri@garr.it
Work experience	
March 2021 – Present	Consortium GARR, Via dei Tizi, Rome, Italy
Job description	Researcher. Research activities: study, design and development of (e-)infrastructures and policies for Open Science, including best practices, strategies at European, national and institutional level. Training on Open Science, FAIR RDM and EOSC related topics to different stakeholders.
Projects involvement	EOSC-Pillar (INFRAEOSC-05-2018-2019 (b)- H2020 - ID: 857650), the project main scope is to set up an operational framework for supporting the overall governance of the EOSC, including the coordination between relevant national initiatives. Main role: Task leader for training activities. EOSCSecretariat.eu (INFRAEOSC-05-2018-2019 - Support to the EOSC Governance - H2020 - ID: 831644). Project aim: supporting the European Open Science Cloud (EOSC) governance and co-creation. Main role: member of CNR team coordinating the EOSC Stakeholder Engagement activities. Includes coordination actions for 50+ EC funded projects concurring to the co-creation of EOSC (European Commission European Open Science Cloud).
Other activities and roles	Coordinator of the Italian Computing and Data Infrastructure Competence Centre on Open Science, FAIR RDM and EOSC. The training and dissemination activities of the ICDI-CC engaged more than 1300 people the first six months of 2021 also covering multidisciplinary aspects; training involved different stakeholders and was also organized for specific Research Institution personnel. Training activities on OS and RDM related topics: active trainer collaborating with private and public research institutions Invited speaker in several international and national conferences. Complete list of organized courses, events and invited talks is available at the following link.
December 2018 – Present	Consiglio Nazionale delle Ricerche (CNR), Institute of Information Science and Technologies (ISTI), Pisa, Italy
Job description	Researcher. Research activities: study, design and development of (e-)infrastructures and policies for Open Science, including best practices, strategies at European, national and institutional level.
Projects involvement	EOSCSecretariat.eu (INFRAEOSC-05-2018-2019 - Support to the EOSC Governance - H2020 - ID: 831644). Project aim: supporting the European Open Science Cloud (EOSC) governance and co-creation. Main role: member of CNR team coordinating the EOSC Stakeholder Engagement activities. Includes coordination actions for 50+ EC funded projects concurring to the co-creation of EOSC (European Commission European Open Science Cloud). OpenAIRE Advance (EINFRA-12-2017 - Data and Distributed Computing e-infrastructures for Open Science - H2020 - ID: 777541). Main role: coordinator of the Italian National Open Access Desks (NOADs) of Member of the Community of Practice for training coordinators, Member of the OpenAIRE Legal Entity Training Team. RDA Europe 4.0 (INFRASUPP-02-2017 - Policy and international cooperation measures for research infrastructures - H2020 - ID: 777388). Main role: Italian Research Data Alliance (RDA) Node Coordinator. EOSC-Pillar (INFRAEOSC-05-2018-2019 (b)- H2020 - ID: 857650), the project main scope is to set up an operational framework for supporting the overall governance of the EOSC, including the coordination between relevant national initiatives. Main role: Task leader for training activities.
Other activities and roles	Editor for the Data Science Journal Special Collection on RDA results. Complete list of organized courses, events and invited talks is available at the following link. Programme committee and organization committee member for international conferences. Organization of national and international events: more than 10 events organized in 2020. Invited speaker in many international and national conferences. Trainer for Open Science skills. More than 20 single training events realized since 2018 also in collaboration with RFOs and RPOs and other organizations also covering multidisciplinary aspects.
November 2017 – October 2018	Consiglio Nazionale delle Ricerche (CNR), Institute of Information Science and Technologies (ISTI), Pisa, Italy

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Main activities and responsibilities	Term-contract Researcher. Research activities: Open Science, including policies, best practices, and strategies at national and institutional level.
January 2011 – October 2017	Scuola superiore Sant'Anna - Institute of Communication, Information and Perception Technologies (TeCIP), Pisa, Italy
Main activities and responsibilities	Research Fellow, Research activities: Design, simulation, and experimental realization of all-optical subsystems for photonic communication networks and photonics based remote sensors. Other activities: Reviewer (International Peer Reviewed Journals and Conferences), projects management: PARENT (Institutional funded project), PHOOD (PRIN-Ministry of Education, University and Research funded project), coordination actions for of H2020 project ROAM (Revolutionising optical fibre transmission and networking using the Optical Angular Momentum of Light, GA 645361).
March 2007 – January 2008	Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT) - National Laboratory of Photonic Networks, Pisa, Italy
Main activities and responsibilities	Project Contractor and Scholarship Holder, Research activities: Design, simulation, and experimental realization of all-optical subsystems for photonic communication networks.
Main Achievements and Roles	
2021	6 training courses on Open Science and Research Data Management related topics organized and delivered in 2021 more than 400 participants reached Open Science Café Series design and delivery: 6 episodes run, 1200+ participants
2019-Present	International roles Member of the EOSC-Association Advisory Group "Research Careers and Curricula" on Upskilling Countries to Engage in EOSC Deputy member of the European Commission expert group on National Points of Reference on Scientific Information Member of the European Commission Open Science Monitor Advisory Board Member of the European Open Science Cloud (EOSC) Executive Board Working Group on Training and Skills, providing a framework for a sustainable training infrastructure to support EOSC in all its phases and ensure its uptake; main role: Chair of the Task Force on Specifications for Training Catalogues and member of the TF on Competence Centers, one of the main editors for the WG group report. Chair of the Call INFRAEOSC-05 projects Task Force on Training and Skills. Member of the Community of Practice for Training Coordinators in Open Science Former Member of the CHIST ERA Open Science Advisory Board. National roles Appointed by the Italian Ministry of University and Research as deputy of the Deputy member of the European Commission expert group on National Points of Reference on Scientific Information Coordinator of the Italian Computing and Data Infrastructure (ICDI) Competence Center. Member of the Education and Communication WG of IOSSG, the Italian Open Science Support Group. Institutional roles Member of the GARR Working Group on Open Science Strategies Member of the Open Access Working Group at ISTI-CNR with the role of being referent for OpenAIRE.
2019	Member of the Programme Committee of EOSC Symposium 2019 "Where the EOSC makers & shakers meet", an integral part of the EOSC Stakeholder Forum, 26-28 November 2019, Budapest, Hungary, and of the EOSC Coordination Day 2019, 28-29 November 2019, Budapest, Hungary, Member of the Organising Committee of IRCDL 2019, IRCDL 201915th Italian Research Conference On Digital Libraries, Jan 31 – Feb 1, 2019 Pisa, Italy.
2016	Member of the Program Committee of PHOTOOPTICS 2016, the 4th International Conference on Photonics, Optics and Laser Technology.
March 2014	Publication on NATURE "A fully photonics-based coherent radar system", Nature, Vol. 507, pp. 341–345, 20 March 2014.
2013-2014	Project Coordinator of PARENT (Photonic Assisted Radar for Environment monitoring enabling disasTer prevention and risk assessment), a project that is funded by the Scuola Superiore Sant'Anna thanks to the italian pre-tax donation 5x1000.
2009	Awarded with a merit scholarship (Bourses d'excellence pour étudiants étrangers du ministère de l'Éducation, du Loisir et du Sport du Québec) funded by the "Fonds québécois de la recherche sur la nature et les technologies" to spent a 4 months period at the Institut National de la Recherche Scientifique (Montreal, Canada).
2009-Present	Reviewer for the IEEE Photonics Technology Letters, IEEE Journal on Selected Areas in Communications, IEEE Journal of Lightwave Technologies, Optics Express, Elsevier Optics Communications, Elsevier Optical Switching and Networking, Fiber and Integrated Optics, Chinese Optics, Radioengineering.
2007-Present	Author and coauthor of one EC publication, 2 book chapters, 3 patents, 19 journal papers, and 36 international conference papers.
2006	Awarded with a merit scholarship (contributi di mobilità per tesi all'estero) funded by the "Università degli Studi di Pisa" to spent a 3 months period at the Laboratory for Satellite Oceanography (LSO) of the National Oceanography Centre, Southampton (NOCS), UK, to carry out the MSc Dissertation work.

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Education and Trainig	
Dates	February 2013
Organisation providing education	Scuola Superiore Sant'Anna, Pisa, Italy
Title	PhD in Innovative Technologies – Telecommunications, 100/100 cum laude
Dates	July 2004 – December 2006
Organisation providing education	Università degli Studi di Pisa, Facoltà di ingegneria, Pisa, Italy
Title	MSc in Telecommunications Engineering (Laurea Specialistica) - 110/110 cum laude
Dates	September 2000 – July 2004
Organization providing education	Università degli Studi di Pisa, Facoltà di ingegneria, Pisa, Italy
Title	BSc in Telecommunications Engineering (Laurea Triennale) - 110/110
Dates	September 1995 - July 2000
Organization providing education	Liceo Scientifico Tommaso Parentucelli, Sarzana (SP), Italy
Languages	
Mother Tongue	Italian

Other language(s) self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient User	C1	Proficient User	C1	Proficient User	C1	Proficient User	B2	Independent User
Norwegian(Bokmål)	C1	Proficient User	C2	Proficient User	C1	Proficient User	C2	Proficient User	C2	Proficient User
Japanese	A1	Breakthrough	A1	Breakthrough	A1	Breakthrough	A1	Breakthrough	A1	Breakthrough

(*) Common European Framework of Reference for Languages

Career Breaks	01 August 2010 - 01 July 2011 Maternity leave, 11 months 14 January, 2012 - 13 January 2013 Maternity leave, 12 months 12 October 2013 - 01 June 2014 Maternity leave, 8 months
Updated full list of roles, events, and publications	Available at this link.

Pisa, 26 September 2021
Emma Lazzeri

L'originale compilato e sottoscritto è depositato presso gli Uffici dell'Ente

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PUBLICATIONS

EU Publications

1. Manola, N., **Lazzeri, E.,** Barker, M.,Kuchma, I., Gaillard, V., Stoy, L., “Digital skills for FAIR and Open Science - Report from the EOSC Executive Board Skills and Training Working Group”, European Commission. Directorate General for Research and Innovation. & EOSC Executive Board. Publication office (2021), https://doi.org/10.2777/59065.

Book Chapters

1. Berrettini G., Bogoni A., **Lazzeri E.,** Meloni G., Porzi C., Potì L., Scaffardi M. “Semiconductor Technologies”, chap. “All-optical digital processing through semiconductor optical amplifiers: state of the art and perspectives”, Semiconductor Technologies", I-Tech Education and Publishing KG, ISBN 978-953-7619-X-X, Vienna - Austria, 2009.

2. Bogoni A., Ghelfi P., **Lazzeri E.**, Potì L., Scaffardi M., “Optical Fibre, New Developments”, chap. “Fibre Based Schemes for Ultrafast Subsystems: Nonlinear Optical Loop Mirrors Traditional Design and Novel Applications”, ITech Education and Publishing KG, Vienna - Austria, 2009.

Patents

1. Bogoni A. , Potì L., Scaffardi M., **Lazzeri E.**, Fresi F., Wo/2010/049001 - Optical Analogue To Digital Converter. Pct/Ep2008/064789.

2. Bogoni A., Potì L., Ghelfi P., and **Lazzeri E.**, Wo/2009/143897 - Apparatus And Method For Generating Optical Pulses. Pct/Ep2008/056700.

3. **Lazzeri E.**, Meloni G.,Bogoni A., Potì L., and Ponzini F., Wo/2009/106145 - Optical Signal Processing. Pct/Ep2008/052537.

Invited papers

1. Ghelfi P., Laghezza F., Scotti F., Serafino G., Pinna S., Onori D., **Lazzeri E.**, Bogoni A., "Photonics in Radar Systems: RF Integration for State-of-the-Art Functionality," in *Microwave Magazine, IEEE* , vol.16, no.8, pp.74-83, Sept. 2015. (IF: 1.131)

2. Bogoni A., Potì L., Willner A.E., Ghelfi P., Porzi C., Scaffardi M., Meloni G., Berrettini G., Fresi F., **Lazzeri E.**, Wu X., “Optical logic elementary circuits” invited paper IET J. Circuits Devices and Systems, vol. 5, No. 76, 2011 (IF: 0.521)

Regular papers

3. Scaffardi M., Malik M. N., **Lazzeri E.,** Klitis C., Meriggi L., Zhang N., Sorel M., and Bogoni A., " Optical Switching by Exploiting Vortex Beam Emitters based on Silicon Microrings with Superimposed Gratings," accepted for publication in OSA Optics Letters, August 2017. (IF: 3.292)

4. Pinna S., Melo S., Laghezza F., Scotti F., **Lazzeri E.,** Scaffardi M., Ghelfi P., and Bogoni A., "Photonics-Based Radar for Sub-mm Displacement Sensing," IEEE Journal of Selected Topics in Quantum Electronics, vol. 23, no. 2, pp. 168-175, March-April 2017. (IF: 2.828)

5. Scaffardi M., Malik M. N., **Lazzeri E.,** Meloni G., Fresi F., Poti L., Andriolli N., Cerutti I., Klitis C., Meriggi L., Zhang N., Sorel M., and Bogoni A., "A Silicon Microring Optical 2x2 Switch Exploiting Orbital Angular Momentum for Interconnection Networks up to 20Gbaud," IEEE Journal of Lightwave Technology , Volume 35, Number 15, August 2017. (IF: 2.965)

6. Scotti F., Onori D., Scaffardi M., **Lazzeri, E.,** Bogoni A., and Laghezza F., "Multi-Frequency Lidar/Radar Integrated System for Robust and Flexible Doppler Measurements," IEEE Photonics Technology Letters, vol.27, no.21, pp.2268-2271, 1 November, 2015. (IF: 2.110)

7. Ghelfi P., Laghezza F., Scotti F., Serafino G., Capria A., Pinna S., Onori D., Porzi C., Scaffardi M., Malacarne A., Vercesi V., **Lazzeri E.,** Berizzi F., and Bogoni A., “A fully photonics-based coherent radar system,” Nature, vol. 507, pp. 341–345, 20 March 2014. (IF: 41.456)

8. Scaffardi M., Pinna S., **Lazzeri E.,** and Bogoni A., "Generation of a flexible optical comb in a periodically poled lithium niobate waveguide," OSA Optics Letters, vol. 39, pp. 1733-1736 (2014). (IF: 3.292)

9. Berrettini, G., Malacarne, A., **Lazzeri, E.,** Meloni, G., and Bogoni, A., "All-Optical Packet-Level Wavelength Swapping of PSK and ASK Signals in PPLN Waveguide," IEEE Photonics Technology Letters, vol.25, no.13, pp.1250,1253, July, 2013. (IF: 2.110)

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10. Pinna S., Malacarne A., **Lazzeri E.,** and Bogoni A., "PPLN-based OOK and DQPSK optical grooming by amplitude and phase-signal multiplexing through pump depletion," OSA Optics Letters, vol. 38, pp. 3870-3873 (2013). (IF: 3.292)

11. **Lazzeri E.,** Malacarne A., Serafino G., and Bogoni A., "Optical xor for Error Detection and Coding of QPSK I and Q Components in PPLN Waveguide," IEEE Photonics Technology Letters, vol.24, no.24, pp.2258-2261, 15 December, 2012. (IF: 2.110)

12. Malacarne A., **Lazzeri E.,** Vercesi V., Scaffardi M., and Bogoni A., "Colorless all-optical sum and subtraction of phases for phase-shift keying signals based on a periodically poled lithium niobate waveguide," OSA Optics Letters, vol. 37, pp. 3831-3833 (2012). (IF: 3.292)

13. Berrettini G., Nguyen A. T., **Lazzeri E.,** Meloni G., Scaffardi M., Potì L., and Bogoni A., , "All-Optical Digital Circuits Exploiting SOA-Based Loop Memories," IEEE Journal of Selected Topics in Quantum Electronics, vol.18, no.2, pp.847-858, March-April 2012. (IF: 2.828)

14. **Lazzeri E.,** Nguyen A. T., Kataoka N., Wada N., Bogoni A., and Potì L. "All Optical Add and Drop Multiplexing Node for Hybrid Topology Networks," IEEE Journal of Lightwave Technology, vol. 29, n.24, pp. 3676-3682, October 2011. (IF: 2.965)

15. **Lazzeri E.,** Berrettini G., Meloni G., Bogoni A., and Potì L., "All-Optical N-bits Shift Register Exploiting a Ring Buffer Based on Semiconductor Optical Amplifier," IEEE Photonics Technology Letters, vol. 23, no 1, pp. 45-47, 2011. (IF: 2.110)

16. Scaffardi M., **Lazzeri E.,** Furukawa H., Wada N., Miyazaki T. Potì L., and Bogoni A., "160 Gb/s/port 2×2 OPS node test-bed performing 50 Gchip/s all-optical active label processing with contention detection," IEEE Journal of Lightwave technologies, vol 28, n. 6, 2010. (IF: 2.965)

17. Scaffardi M., **Lazzeri E.,** Fresi F., Potì L., and Bogoni A., "Analog-to-Digital Conversion based on modular blocks exploiting Cross Gain Modulation in Semiconductor Optical Amplifiers," IEEE Photonics Technology Letters, vol. 21, no. 8, 2009. (IF: 2.110)

18. Potì L., **Lazzeri E.,** Meloni G., Bogoni A., and Prati G., "All-Optical Processing by means of Cross Phase Modulation based PM-NOLM Interconnected Structures", IEEE Journal of Selected Topics in Quantum Electronics, vol. 14, no. 3, May/June, 2008. (IF: 2.828)

19. Scaffardi M., Ghelfi P., **Lazzeri E.,** Potì L., and Bogoni A., "Photonic processing for digital comparison and full addition based on semiconductor optical amplifiers," IEEE Journal of Selected Topics in Quantum Electronics, vol. 14, no. 3, pp. 826-833, May/June, 2008. (IF: 2.828)

Invited conference papers

1. **Lazzeri E.**, Manghi P., "Open Science: a tutorial for the database systems community" Invited Paper, in 28th Symposium on Advanced Database Systems (SEBD2020), Villasimius, Italy, June 21-24, 2020.

2. Scotti F., Laghezza F., Onori D., **Lazzeri E.**, Scaffardi M., Ghelfi P., and Bogoni A., "Microwave Photonics for Integrated Multifrequency Lidar/Radar System," Invited Paper, in Proc. The 20th OptoElectronics and Communications Conference (OECC 2015), June 28-July 2, 2015, Shanghai, China.

3. Ghelfi P., Laghezza F., Scotti F., Serafino G., S. Pinna, Onori D., Porzi C., Scaffardi M., Malacarne A., Vercesi V., **Lazzeri E.,** and Bogoni A., "Fully photonics-based radar demonstrator: concept and field trials", Optical fiber Communication (OFC) 2015, Los Angeles CA, March 2015.

4. Malacarne A., Scaffardi M., Meloni G., Potì L., Pinna S., **Lazzeri E.**, and A. Bogoni, "PPLN waveguide-based optical signal processing for next-generation networks," IEEE Photonics Society Summer Topical Meeting on Nonlinear-Optical Signal Processing, Montreal Canada, July 2014.

5. Malacarne, A., Bogoni, A., **Lazzeri, E.**, and Berrettini, G., "Review on PPLN waveguide-based photonic processing for phase-coded signals in new generation optical networks," Computers and Devices for Communication (CODEC), 2012 5th International Conference on , Kolkata, India, 17-19 Dec. 2012.

6. Scaffardi M., Ghelfi P., Porzi C., Meloni G., Berrettini G., Malacarne A., Fresi F., **Lazzeri E.**, Wang J., Wu X., Fazal I., Willner A., Potì L., and Bogoni A., "Photonic Digital

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Processing for Enabling Next Generation Optical Networks," in Proc. of Photonics Switching 2009, Pisa, Italy, 15 -. 19 September 2009.

7. **Lazzeri E.**, Fresi F., Malacarne A., Berrettini G., Meloni G., Porzi C., Scaffardi M., Ghelfi P., Bogoni A., and Potì L. , "All-optical digital processing through semiconductor optical amplifiers: state of the art and perspectives," invited paper, in Proc. of Photonics in Switching 2008 , Hokkaido, Japan, 4-7 August , 2008

8. Bogoni A., Potì L., Scaffardi M., Porzi C., Ghelfi P., Meloni G., Berrettini G., Malacarne A., Fresi F., and **Lazzeri E.**, "Implementation of photonic digital signal processing subsystems based on discrete devices", invited paper, Workshop on "Digital photonics for signal processing in broad-band all-optical communications", San Francisco, California, 19th August, 2007

Conference papers

9. Manghi P.; Candela L.; **Lazzeri E.;** Silvello G., "Digital Libraries: supporting Open Science" in SIGMOD record, December 2020

10. Baglioni M.; Bardi A.; Kokogiannaki A.; Manghi P.; Iatropoulou K.; Principe P.; Vieira A.; Nielsen L. H.; Dimitropoulos H.; Foufoulas I.; Manola N.; Atzori C.; La Bruzzo S.; **Lazzeri E.**; Artini M.; De Bonis M.; Dell'Amico A., "The OpenAIRE Research Community Dashboard: On Blending Scientific Workflows and Scientific Publishing" in 23rd International Conference on Theory and Practice of Digital Libraries, TPDL, Oslo, Norway, September 9-12, 2019.

11. Scaffardi M., Malik M.N., Paolucci F., **Lazzeri E.**, Zhang N., Klitis C., Sgambelluri A., Lavery M., Cugini F., Sorel M. M., and Bogoni A., "OpenFlow-Control of an OAM-based Two-Layer Switch Supporting 100Gb/s Real Data-Traffic", Conference on Lasers and Electro-Optics 2018 (CLEO2018), San Jose Convention Center, San Jose, California, USA, 13-18 May 2018.

12. Zhang N., Scaffardi M., Malik M.N., Toccafondo V., Klitis C., Lavery M. P. J., Meloni G., Fresi F., **Lazzeri E.**, Marini D., Zhu J., Cai X., Yu S., Potì L., Preve G., Bogoni A., Sorel M., "4 OAM x 4 WDM Optical Switching Based on an Innovative Integrated Tunable OAM Multiplexer", *Optical Fiber Communication Conference (OFC)*, San Diego, California, USA, 11 – 15 March 2018.

13. Scaffardi M., Malik M.N., Andriolli N., Zhang N., **Lazzeri E.**, Klitis C., Lavery M. P. J., Sorel M., Bogoni A., "Multiplane Orbital Angular Momentum and Wavelength Switch based on Integrated Tunable Vortex Emitters", *Optical Fiber Communication Conference (OFC)*, San Diego, California, USA, 11 – 15 March 2018.

14. Scaffardi M., Zhang N., Malik M.N., **Lazzeri E.**, Klitis C., Lavery M., Sorel M., and Bogoni A., "Two-layer interconnection network architectures based on integrated concentric orbital angular momentum emitters", in proc. *Advanced Photonics-PS2017*, New Orleans; United States; July 24-27, 2017.

15. Scaffardi M., Zhang N., Malik M., Toccafondo V., N., Klitis C., Lavery M., **Lazzeri E.**, Sgambelluri A., Marini D., Zhu J., Cai X., Yu S., Preve G., Sorel M., and Bogoni A., " Tunable Orbital Angular Momentum (OAM) Conversion on 100Gb/s Real Data Traffic by Exploiting Concentric Waveguide Emitters," in European Conference on Optical Communications 2017 (ECOC2017), Gothenburg, Sweden, 17-21 September 2017.

16. Scaffardi M., Zhang N., Malik M. N., **Lazzeri E.**, Klitis C., Lavery M., Sorel M., and Bogoni A., "Two-layer interconnection network architectures based on integrated concentric orbital angular momentum emitters," in Photonic Switching 2017, New Orleans, USA, 24-27 July 2017.

17. Scaffardi M., Malik M. N., **Lazzeri E.**, Klitis C., Meriggi L., Zhang N., Sorel M., and Bogoni A., "A 3x3 Switch Exploiting an Optical Vortex Beam Emitter based on a Silicon Three-Grating Microring," in Conference on Lasers and Electro-Optics, OSA Technical Digest (Optical Society of America, 2017), San Jose, California United States 14–19 May 2017.

18. Pinna S., Melo S., **Lazzeri E.**, Bogoni A., Scotti F. and Laghezza F., "Sub-mm displacement measure via multi-band phase estimation in a photonics-based radar system," 2016 European Radar Conference (EuRAD), London, 2016, pp. 310-313.

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19. **Lazzeri E.**, Castoldi P., Cugini F., Bogoni A., "Photonic Data Rate Reduction apllied to Ultrafast Processing for High Speed Optical Links," The 6th International Conference on Computers and Devices for Communication (CODEC-15), Kolkata, India 2015.

20. **Lazzeri E.,** "Optical Deep Packet Inspection with Data Rate Reduction", Photonics in Switching 2015, Florence, Italy 2015.

21. Laghezza F., Scotti F., Serafino G., Pinna S., Onori D., **Lazzeri E.**, Ghelfi P., and Bogoni A, "Photonics in Coherent Multiband Radar Systems," in Proc. Of 14th International Conference on Optical Communications and Networks (ICOCN 2015), July 3-5, 2015, Nanjing, China.
22. Berrettini, G., Malacarne, A., **Lazzeri, E.**, Meloni, G., and Bogoni, A., "Multiformat Wavelength Swapping in Periodically Poled Lithium Niobate Waveguide," Optical fiber Communication (OFC) 2013, March 19-21, 2013 Anaheim Convention Center, Anaheim, CA, USA.

23. **Lazzeri E.**, Malacarne A., Serafino G., and Bogoni A., "All-Optical XOR gate for QPSK In-Phase and Quadrature Components based on Periodically Poled Lithium Niobate Waveguide for Photonic Coding and Error Detection Applications," 4th International Workshop on Optical SuperComputing in Bertinoro, Bertinoro, Italy, 2012

24. **Lazzeri E.**, Malacarne A., and Bogoni A., "Colorless All Optical XOR Gate for BPSK Signals Based on Periodically Poled Lithium Niobate Waveguide," in proc. Photonics in Switching 2012, 11-14 Sept. 2012, Ajaccio, Corsica, France.

25. **Lazzeri E.,** Fresi F., Secondini M., Lee S.B., and Potì L. "Wavelength Independent Receiver for Low Cost and Reduced Complexity WDM DQPSK Systems," International Conference on Information Science, Signal Processing and their Applications, Qebec, Canada, Montreal, 2-5 July 2012.

26. **Lazzeri E.**, Berrettini G., Meloni G., Bogoni A., and Potì L., "N-bits All-Optical Circular Shift Register Based on Semiconductor Optical Amplifier Buffer," Photonics West 2011, Moscone Center, San Francisco, CA, 22-27 January 2011.

27. **Lazzeri E.**, Nguyen A., Kataoka N., Wada N., Bogoni A., and Potì L., "Fine Granularity ROADM Node Testbed for OTDM and WDM Based Subnetworks Towards 100 Gbps Interconnection and Beyond," 2010 Photonics Society Annual Meeting, Denver, Colorado, November 7-11, 2010.

28. **Lazzeri E.**, Nguyen A., Serafino G., Kataoka N., Wada N., Ascari L., Bogoni A., and Potì L., "All-Optical NRZ-DPSK to RZ-OOK Format Conversion Using Optical Delay Line Interferometer and Semiconductor Optical Amplifier", Photonics in Switching, Monterey, California, USA, July 25-28, 2010.

29. Nguyen A., **Lazzeri E.**, Ghelfi P., Bogoni A., and Potì L., "Precise Low-Cost Optical Time Multiplexer Based on the Birefringence of Polarization Maintaining Fibers," the 35th European Conference on Optical Communication ECOC 2009, Vienna, Austria, 20-24 September, 2009.

30. Cancelliere F., Fresi F., **Lazzeri E.**, Nguyen A., Secondini M., Ghelfi P., and Potì L. "Power Optimization for Intensity and Time Jitter Characterization in Optical Frequency Multiplication and Time Multiplexing," Photonic in Switching 2009, Italy, Pisa, September 2009.

31. Scaffardi M., **Lazzeri E.**, Fresi F., Potì L., and Bogoni A., "Analog-to-digital conversion exploiting XGM in SOA-based modular blocks," 21st Annual Meeting of the IEEE Lasers and Electro-Optics Society (LEOS) 2008, Newport, CA, USA, November, 2008.

32. **Lazzeri E.**, Meloni G., Bogoni A., and Potì L., "The Mickey NOLM: Nonlinear All-Optical Processing based on PM-NOLM Structures," Photonics in Switching 2008, Hokkaido, Japan, 4-7 August, 2008.

33. Ghelfi P., **Lazzeri E.**, Scaffardi M., Potì L., and Bogoni A., "All-Optical Full Adder Exploiting Cascade of Semiconductor Optical Amplifier-Based Modular Blocks," Optical fiber Communication (OFC) 2008, San Diego, California, USA, February, 2008.

34. Scaffardi M., **Lazzeri E.**, Potì L., and Bogoni A., "All-Optical Comparator Based on Cross Gain Modulation in Semiconductor Optical Amplifiers," Optical fiber Communication (OFC) 2008, San Diego, California, USA, February, 2008.

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