CURRICULUM VITAE

Prof. **Antonella** **Bogoni**
Scuola Superiore San'Anna

PERSONAL DATA

Name:	Antonella
Surname:	Bogoni
Birth date:	March, 20 1972
Birth place:	Mantova (Italy)
Nationality:	Italian
Residence:	

SUMMARY and MAIN ACHIEVEMENTS

Professional achievements

2017	National qualification for **Full Professor** position
From 2015	**Associate Professor** at Scuola Superiore Sant'Anna (SSSA) - Institute of Communication Information and Perception Technologies (TECIP) in Pisa,- Italy and **Leader of digital and microwave photonics area** of TeCIP
From 2001	**Leader of digital and microwave photonics area** of TeCIP and National Laboratory of Photonic Networks and Technologies (PNTLab)- Inter-University National Consortium for Telecommunications (CNIT) in Pisa-Italy (currently 16 people in the team)
2010-2015	CNIT **head of research area** at the PNTLab
2006-2011	**Co-founder of Photrix** a start up company manufacturing and selling ultra high speed optical instrumentation (2007-2011 **President and CEO**)

Figures

From 2004	**Coordinator for CNIT-PNTLab and TECIP** of 18 International projects 9 National projects and 4 industrial projects (Principal Investigator of the project in 16 of them)
From 2004	She raised research **funds exceeding 9 M€**
From 2000	She has been **co-author of 9 books and chapters, 54 international patents, 1 and 22 invited manuscripts** published **on national and international journals** respectively, **138 regular manuscripts** published **on international journals, 2 and 65 tutorials/invited talks at national and international conferences** respectively, and **24 and 264 regular papers** presented **at national and international conferences** respectively.
	Total H-index = 30 (from Google Scholar), 26 (from Scopus), 23 (from ISI-web of knowledge),

Main Coordinated Projects

2017-2020	Coordinator of the National project PRIN (Progetti di Ricerca di Interesse Nazionale) **"PHOOD: Novel PHOtonics-based RADAR/LIDAR cOmbined coherent sensor for aDvanced precision agriculture"**
2015-2018	Coordinator of the project **"ROAM: Revolutionising optical fibre transmission and networking using the Orbital Angular Momentum of light"** funded by **European Community (H2020-ICT-06-2014)**. Total funded budget: 3.37M€
2015-2016	**European Research Council Proof of Concept Grant** for the project **"PETRA: Photonic Environment moniToring & Risk Assessment"**
2012	**European Research Council Proof of Concept Grant** for the project **"PREPaRE: PRE-industrial Photonic-based Radar dEsign"**
2009-2013	**European Research Council Starting Grant (1.6M€)** for the project: **"PHODIR: PHOtonic-based full DIgital Radar"**

Main scientific achievements

2018	**Co-technical Chair at ECOC** (European Conference on Optical Communication) 2018, Rome, Italy Spet 2018

2

2015	**Sub-committee Chair at ECOC** (European Conference on Optical Communication) 2015
2014	**Publication on NATURE** "A fully photonics-based coherent radar system", Nature, Vol. 507, pp. 341–345, 20 March 2014.
2014-Present	**Topical Editor for Optics Letters, ISSN: 0146-9592, 2013 Impact Factor: 3.179**
2014	**General co-Chairman of IEEE Photonics in Switching 2014**, July 2014, San Diego, California
2009-2010	**Fulbright advanced research scholarship** for the project "Design and implementation of a 640 Gb/s OTDM system" at University Southern California, Los Angeles, CA, USA
From 2010	Two **Best paper awards** and 5 **Best student paper awards at international conferences**
From 2004	**Member** of several **Editorial boards, technical committees** of International Conferences, **Board of reviewers** of International Journals and Books, as Wiley Editor, Nature and Nature Photonics

MOST RELEVANT PUBLICATIONS

1. 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.
Total Citations: 143, Impact factor 2014: 41.5

2. Ghelfi P., Scotti F., Laghezza F., **Bogoni A.**, "Photonic Generation of Phase-Modulated RF Signals for Pulse Compression Techniques in Coherent Radars", IEEE Journal of Lightwave Technology, Vol. 30, n.11, 1638-1644, June 2012.
Total Citations: 45, Impact factor 2012: 3.45

3. Willner A.E., Yilmaz O.F., Wang J., Wu X., **Bogoni A.**, Zhang L., Nuccio S.R., "Optically Efficient Nonlinear Signal Processing", invited paper IEEE J. of Select. Topics in Quantum Electron, Vol. 17, n. 2, pp. 320-332, March-April 2011
Total Citations: 34, Impact factor 2012: 4.57

4. 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 J. of Select. Topics in Quantum Electron, 14, 3, 826-833, May/June, 2008
Total Citations: 41, Impact factor 2008: 3.8

5. Berrettini G., Simi A., Malacarne A., **Bogoni A.**, and Potì L., "Ultrafast Integrable and Reconfigurable XNOR, AND, NOR, and NOT Photonic Logic Gate", Photonics Technology Letters, 18, 8, 917-919, April, 2006
Total Citations: 89, Impact factor 2006: 2.97

CURRICULUM	

2017	National qualification for **Full Professor** position
From 2015	**Associate Professor** at Scuola Superiore Sant'Anna (SSSA) - Institute of Communication Information and Perception Technologies (TECIP) in Pisa,-Italy
From 2001	**Leader of digital and microwave photonics area** of TeCIP and National Laboratory of Photonic Networks and Technologies (PNTLab)- Inter-University National Consortium for Telecommunications (CNIT) in Pisa-Italy (currently 16 people in the team)
2010-2015	CNIT **head of research area** (digital and microwave photonics area) at the PNTLab
2007-2011	**President and CEO of Photrix** (she has been a co-funder) a start up company manufacturing and selling ultra high speed optical instrumentation
2008-2010	**Visiting professor** for 3 months in 2008 and 8 months with a **Fulbright advanced research scholarship in** 2010 at University Southern California, Los Angeles, CA
2006-2010	CNIT **head of research** at the PNTLab
2006	**Co-founder of Photrix** a start up company manufacturing and selling ultra high speed optical instrumentation
2001-2006	CNIT **senior researcher** at the PNTLab
2000-2001	CNIT **researcher** at the optical communications laboratory of the University of Parma
2004	She received the **PhD degree** from the Parma University
1997 - 1999	**Marconi Communications grant** on the topic: **"WDM communication systems on optical fibre"** at the Marconi Laboratory of Parma University.
Feb. 1998	**Qualification for engineering profession**
1991 – 1997	**Degree in Electronic Engineering** (Telecommunications) from University of Parma with a thesis entitled: "Measurement and compensation of the FM behaviour of DFB laser for coherent communication systems applications". The thesis work was carried out at the optical communications laboratory of the University of Parma.

Awards and significant achievements

2017	**Best student paper award in International Conference on Radar Systems 2017** for "High Precision Displacement Measurements in presence of Multiple Scatterers using a Photonics-based Dual-band Radar"
2017	**IEEE Charles Kao Award** for best optical communications & networking paper with the JOCN paper "Sliceable Transponder Architecture Including Multiwavelength Source"
2016	**Honorable Mention** for the paper: S. Melo, S. Pinna, F. Laghezza, F. Scotti, I. F. da Costa, D. H. Spadoti, Arismar Cerqueira S. Jr. and A. Bogoni "Photonics-based dual-use Transceiver based on a single dual-band Antenna Array", XXXIV Simpósio Brasileiro De Telecomunicações, September, 2016.
2016	National Grant for "**PHOOD: Novel PHOtonics-based RADAR/LIDAR cOmbined coherent sensor for aDvanced precision agriculture**"
2015-2017	**Special visiting professor scholarship within the Brazilian programme:** "**PROGRAMA CIÊNCIA SEM FRONTEIRAS – BOLSAS NO PAÍS- MODALIDADE PESQUISADOR VISITANTE ESPECIAL – PVE-2014**", funded by CAPES, Brazil
2015	**Best paper award for the most significant advance in radar state of-the art at EuRAD 2015, Paris**, for "Coherent Radar/Lidar Integrated Architecture"
2015	**European Research Council Proof of Concept Grant** for the project "**PETRA: Photonic Environment moniToring & Risk Assessment**"
2014	**Publication on NATURE** "A fully photonics-based coherent radar system"
2014	**Selection for paper review in "research news&views" session of NATURE** for the paper "A fully photonics-based coherent radar system", by J.D. McKinney, US Naval Research Laboratory, USA
2014	**2014 Elettronica Prize**, "Optical RF scanner"
2009-2013	**European Research Council Starting Grant** for the project: "**PHODIR: PHOtonic-based full DIgital Radar**"
2012	**European Research Council Proof of Concept Grant** for the project "**PREPaRE: PRE-industrial Photonic-based Radar dEsign**"
2009-2010	**Fulbright advanced research scholarship** for the project "Design and implementation of a 640 Gb/s OTDM system" at University Southern California, Los Angeles, CA, USA
2013	"Isabella D'Este" Italian **Award for Scientific Research**,by Colline Moreniche Association Italy, September 2013.

2014	**Best student paper award in International Radar Symposium 2014** for "Field trial of the first Photonic-Based Radar for Maritime Border Security and Harbor Protection"
2013	**Best student paper award in IEEE Photonics in Switching 2013 Conference** for "Laser Spectral-Purity Impact in Optical Processing of QPSK Signals in PPLN Waveguide"
2012	**Best paper award selection in International Conference on Radar System** for "Photonic generation of microwave phase coded radar signal"
2012	**Keynote speech selection** within **OPTRO 2012** – 5th International Symposium on Optronics in Defense and Security for **"Flexible Photonic Generation of Low-Phase-Noise Phase-Coded Radar Pulses"**
2010	**Best paper award in IEEE ICC 2010 - Optical Networks and Systems Symposium** for "Optical Bistability in a Nonlinear Resonator With Saturable Losses and Intensity-Dependent Refractive Index"

Project coordination activities:

2018-2021	Coordinator of **"PIOTS: Packaged integrated photonics-based RF/optical hybrid transceiver key-elements for sensing and communication"** funded by the **European Space Agency**
2018-2020	Scientific responsible in charge for **"The BeeTag: an IoT Backscattering and Battery-free Sensor for Precision Agriculture Applications"** funded by the **Bank Fondation of Cassa di Risparmio di Pistoia e Pescia**
2018-2020	Principal Investigator of **"Label-free PoC device based on 3D photonic Bottlemicroresonators for real-time high-Sensitive measurement of disease relevant biomolecules"** funded by **Tuscany Region**
2018-2020	Principal Investigator of **"SCORPIUS: Development on chip of a multifrequency optical oscillator for radars in space"** funded by the **Italian Space Agency ASI**
2018-2021	She is person in charge for Sant'Anna School of Advanced Studies of the project **"LIRAS: LIdar and RAdar in Space"** funded by **Ministry of Education, Universities and Research**
2017-2021	She is scientific person in charge for CNIT of the project **"EUIMWP European Network for High Performance Integrated Microwave Photonics"** funded by **European COST Program**.
2017	Coordinator of private contracts on **"PAI-PL Automatic protection systems for railway level crossing"** funded by the **National raiway society RFI**
2017-2020	Principal Investigator of **"SOLE: multiStatic & multiband cOherent radar fLeet for border sEcurity"**, funded by **NATO** within the Science for Peace and Security Programme (SPS)
2017-2018	Principal Investigator of **"RODI: Rf/Optical combined coherent transceiver for Radar/lIdar and RF/optical communications in space"** funded by the **Italian Space Agency ASI**
2017-2018	Principal Investigator of **"POINTING: Photonics-based frequency-agile RF transceiver with High Precision Optical Beamforming for satellite rad/com systems"** funded by the **Italian Space Agency ASI**
2017-2020	Principal Investigator of **"PREVENTION: Photonics-based advanced environment monitoring system for an enhanced pREVENTION of landslide and structural failure risks"**, within the **India-Italy** Significant Bilateral Projects, funded by **Ministry of Foreign Affair**.

2017-2020	She is scientific person in charge for CNIT of the project "**ROBORDER: autonomous swarm of heterogeneous Robots for BORDER surveillance**" funded by **European Commission (H2020)**
2017-2020	Coordinator of the National project **PRIN** (Progetti di Ricerca di Interesse Nazionale) "**PHOOD: Novel PHOtonics-based RADAR/LIDAR cOmbined coherent sensor for aDvanced precision agriculture**" funded by the **Ministry of Education, Universities and Research**
2016-2017	She is scientific person in charge for CNIT of the project "**FUTURE : Radio FreqUency phoTonic technologies for eUropean militaRy systEms**" funded by **European Defence Agency** .
2015-2016	She is coordinator of the project "**Optical beamforming transceiver for 5G**", funded by **Ericsson**.
2015-2017	She is coordinator of the project "**ROAM: Revolutionising optical fibre transmission and networking using the Orbital Angular Momentum of light**" funded by **European Commission (H2020)**
2015-2018	She is scientific person in charge for CNIT of the project "**FIWIN5G: FIber-Wireless Integrated Networks for 5th Generation delivery**" funded by **European Commission (H2020)**.
2015-2017	Italian coordinator of the Brazil-Italy project "**SWaP constrained photonic-assisted RF transceiver for aerospace, cognitive radio and remote sensing applications**", funded by the **Brazilian Agency CAPES**.
2014-2017	Supervision of the private contract "**Design of the RF spectrum scanner prototype based on discrete components**" Funded by Elettronica Spa.
2014-2015	Principal Investigator of "**PETRA: Photonic Environment moniToring Risk Assessment**" within the **European Research Council Starting Grant "Proof of concept"**.
2014-2016	She is scientific person in charge for CNIT of the project "**RAPIDO: Revolutionary Advances in Photonics Integration Being Applied for Optical Communication**" funded by **European Commission (FP 7)**.
2014-2015	Principal Investigator of "**COMBINE: Multi-layer interconnection network based on optical angular momentum multiplexing & wavelength division multiplexing switching**", within the **U.S.-Italy** Significant Bilateral Projects, funded by **Ministry of Foreign Affair**.
2013-2014	Principal Investigator of "**PREPaRE: PRE-industrial Photonic-based Radar dEsign**" within the **European Research Council Starting Grant "Proof of concept"**.
2012-2014	Scientific person in charge for Photonic Networks National Laboratory-CNIT of the project "**SOPHIA: Software-defined multicarrier wideband**

<u>transceiver based on photonic technologies for TLC wireless applications</u>" funded by **Italian Defense Ministry**.

2009-2013	Principal Investigator of "<u>**PHODIR: PHOtonic-based full DIgital Radar**</u>" within the **European Research Council Starting Grant**.
2011-2012	Scientific person in charge of the project "<u>**INSIDE: toward Integrated photoNic-aSsisted fully-dIgital raDar transcEiver.**</u>" within the **European program Nexpresso**, "Network for EXchange and PRototype Evaluation of photonicS componentS and Optical systems".
2009	Scientific person in charge of the project "**Nanophotonics for ultra-fast processing of moving.**" funded by **Fondazione Silvio Tronchetti Provera**.
2009-2012	She is scientific person in charge of the project "<u>**ACEPLAN "ACtivE PLAsmoNics and lossless metamaterials"**</u> funded by **Europen Consortium NanoSci-ERA**.
2008-2010	Scientific person in charge for Photonic Networks National Laboratory-CNIT of the project "<u>**GOSPEL "Governing the Speed of Light"**</u> by the **European Commission (FP 7)**.
2008	Scientific person in charge for CNIT of the project "<u>**Integrated time domain optical interleaver for photonic-based full-digital radar receiver**</u>" within the **European program ACCORD** "Advanced Components Cooperation for Optoelectronics Research and Development".
2006-2007	Co-coordinator of "All-optical technologies" group within the **project between CNIT and Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione (ISCTI)**.
2006	Co-coordinator of the project "<u>**Feasibility study for 100 Gb/s Ethernet transport**</u>" funded by **Ericsson**.
2004-2005	Co-coordinator of "All-optical technologies" group within the **project between CNIT and Istituto Superiore delle Comunicazioni (ISCOM)**.
2004-2005	Scientific person in charge of the project: <u>**"Realization of prototypes of ultra-short pulse optical source"**</u> supported by **Fondazione Cassa di Risparmio di Pisa** – **Italy**.
2003-2004	Scientific person in charge of the research lines "Reliable optical sources at bit rate higher than 100 Gbit/s" e "all-optical modulation and time domain multiplexing" within the <u>**MIUR project for the realization of an Excellence Center on comunication networks**</u> with **Scuola Superiore Sant'Anna in Pisa**, funded by the **Ministry of University and of the Scientific and Technologic Research**.

She has been involved in the **following projects** as **coordinator of the digital and microwave photonics group**:

2013-2016	MIUR project "MINOS: MIcro- and NanO-structured photonic devices based on strained silicon for ultrafast Switching in datacom applications", FIRB, funded by the **Ministry of Education, University and Research**
2012-2015	<u>"**ARNO: Integrated optical packet networks for access and transport**"</u> funded by **Tuscany Region**
2008-2010	MIUR Project "<u>**Integrated subsystems for optical fibre communications fabricated through ion implantation of erbium-doped waveguies.**</u>" funded by the **Ministry of University and of the Scientific and Technologic Research.**
2008-2012	<u>**EUROFOS Project "Pan-European Photonics Task Force: Integrating Europe's Expertise on Photonic Subsystems**</u>" (Network of Excellence) funded by **European Commission** (FP 7).
2008-2010	<u>**BONE project, "Building the Future Optical Network in Europe"**</u> funded by **European Commission** (FP 7).
2007-2009	MIUR project "<u>**Photonic Enabling Devices for Regeneration and Optical Switching (PEDROS)**</u>", funded by the Ministry of University and of the Scientific and Technologic Research, for the international bilateral cooperation with Canada.
2007-2009	MIUR project "<u>**Laboratory for PhOtonic switching nETworks (POET)**</u>", funded by the Ministry of University and of the Scientific and Technologic Research, for the international bilateral cooperation with India.
2006-2008	MAE Indian-Italian Science and Technologic Collaboration, "<u>**Enabling technologies for the design and implementation of next generation optical internet prototype based on optical packet switching**</u>" with Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India; funded by the Ministry of Foreign Affair.
2006-2008	Progetto <u>**e-Photon/One+, "Optical Networks: Towards Bandwidth Manageability and Cost Efficiency"**</u> by **European Commission** (FP 6).
2005-2007	MIUR project "<u>**Optical Transmission Systems with Coherent Detection**</u>", funded by the Ministry of University and of the Scientific and Technologic Research.
2004-2006	Progetto <u>**e-Photon/ONe, "Optical Networks: Towards Bandwidth Manageability and Cost Efficiency"**</u> project by **European Commission** (FP 6).
2004-2006	MAE Korean-Italian Science and Technologic Collaboration, "<u>**Future optical communication networks beyond 160 Gbit/s based on Optical Time Division Multiplexing (OTDM) involving ultrafast photonic**</u>

devices" with Institute of Science & Technology (KIST) Seoul, Korea; funded by the Ministry of Foreign Affair.

2003-2004 — **DWDM ring networks:** Design and implementation of DWDM EDFA-based ring networks in collaboration with **Marconi Communications**.

2002-2004 — **MAE Indian-Italian Science and Technologic Collaboration, "Design of packet switched re-configurable DWDM network with wavelength conversion for multimedia"** with Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India; funded by the Ministry of Foreign Affair.

2002-2004 — **MIUR project "CENTRE FOR COMMUNICATION NETWORKS ENGINEERING"** . Funded by the Ministry of University and of the Scientific and Technologic Research
She was **group leader** for the workpackage 5, research line 1 *"Reliable optical source at more than 100 Gbit/s"* and research line 2 *"Modulating and multiplexing in the optical domain"*.

2001-2003 — **MIUR project "Transmission on very-high bit rate OTDM systems"** funded by the Ministry of University and of the Scientific and Technologic Research.

2000-2002 — **LOBSTER project "Large Optical Bandwidth by amplifier Systems based on TEllurite fibres doped with Rare earths"** funded by the **European Commission (FP 5).**

2000-2001 — **PMD COMPENSATION project:** Fabrication of an heterodyne receiver for the frequency measurement of the Stokes parameter in a PMD compensator scheme for high bit-rate communication systems, funded by **Marconi Communications**.

1999-2001.1 — **MIUR project "Subsystems and techniques for very-high-bit-rate OTDM"** funded by the Ministry of University and of the Scientific and Technologic Research.

1998-1999 — **"Nonlinear effects in WDM systems"** funded by **Marconi Communications.**

1997-1999 — **Projects ODIN in collaboration with Marconi-Telecom Italia.**

1996-1998 — **DAWRON Project "Desing of Advanced Routed Optical Networks"** funded by **European Commission INCO-DC**

REVISION, DISSEMINATION AND EVENT ORGANIZATION

2018

2018   **Co-program Chair at ECOC** (European Conference on Optical
                Communication) 2018, Rome, Italy Spet 2018

2018   **Workshop organization**: "What will be the role of microwave photonics in
                5G and beyond?" at ECOC 2018

2017   **Co-chair of the Special Iassue "Optical Signal Processing: Advances and
                Perspectives",** of Applied Sciences, ISSN 2076-3417

2017   **Co-chair of the Special Session "mmW radars",** at the International Radar
                Symposium, Prague, Czech Republic, June 2017

2017   **Member of the technical committee of International Radar Symposium
                (IRS)**

2016   **Co-chair of the Special Session** "Photonics for 5G and beyond" within the
                Tyrrhenian International Workshop on Digital Communications, Livorno,
                September 2016

2017   **Guest Editor** of the Special Issue "Optical Networks for Communications",
                by MPDI (Multidisciplinary Digital Publishing Institute) photonics ISSN
                2304-6732

2016   **Co-chair of the Special Issue "Ultrashort Optical Pulse"** Applied Sciences
                (ISSN 2076-3417; IF: 1.484), 2016

2016   **Co-chair of the Workshop** on "Fiber-Wireless Network Technologies and
                Architectures towards 5G and Beyond" within ICTON 2016 (18th
                International Conference on Transparent Optical Networks), Trento, Italy
                July 2016

2016	**Co-chair of the Special Issue** on European Conference on Optical Communication on **IEEE Journal of Lightwave Technology**, Vol. 34, n. 5, 2016
2015	**Workshop organization**"Microwave photonics" at ECOC 2015, Spain
2015	**Sub-committee Chair at ECOC** (European Conference on Optical Communication) 2015, Valencia, Spain, Sept. 20115
From 2015	**Member of the technical committee** of **IEEE ICC** (International Conference on Communications) 2015 Selected Areas in Communications Symposium on Millimeter-wave communications IMOC (International Microwave and Optoelectronic Conference) 2015
2014-20120	**Topical Editor** for **Optics Letters, ISSN: 0146-9592, 2013 Impact Factor: 3.416**
2014	**General co- Chiarman** of **IEEE Photonics in Switching 2014**, July 2014, San Diego, California
2014	**Co-Guest Editor** of the Special Issue "All Optical Networks for Communications", by MPDI photonics ISSN 2304-6732
2014	**workshop organization**: "Photonics for RADAR systems", within the **European Radar Conference (EURAD) 2014**, October, Rome, Italy
From 2014	**Editorial board member of Frontiers of Optoelectronics** (ISSN: 2095-2759)
From 2014	**Member of the technical committee** of European Conference on Optical Communication (**ECOC**) **Member of the technical committee** of Photonics and Optoelectronics Meetings (**POEM**), The Tenth Advanced International Conference on Telecommunications (**AICT**), The 13th International Conference on Optical Communications and Networks (**ICOCN**)
2013-2014	**Member of the technical committee of Conference on Electronics, Telecommunications and Computers**, December 2013, Lisbon, Portugal
2013	**Editorial board member of Chinese Journal of Engineering**
2013	**Plenary session** speaker at **International workshop on telecommunications 2013**, Santa Rita do Sapucaí, Brazil
2013	**Technical Chairman** of **Photonics in Switching 2013**, July 2013, Osaka, Japan.
2013	Evaluator in the framework of the Joint call **ERAfrica**
2012-2014	**Editorial board member of Photonics** (ISSN 2304-6732)

2012	**Member of the technical and organizing committee of IEEE International Conference on Computers and Devices for Communication,** December 2012, Kolkata, India and for **International Workshop on Telecommunications,** Santa Rita do Sapucaí, Brazil
From 2012	**Member of the technical** committee of **Photoptics, CETC** (Conference on Electronics, Telecommunications and Computers).
2011	**Editorial board member of Hindawi**
2009-2015	**Member of the technical committee of IEEE Photonics in Switching**
From 2009	**Member of the organizing committee of IEEE Photonics in Switching**
2009	**Member of the technical committee of Fotonica 2009,** May 27-29, 2009, Pisa, Italy.
2008	**Tutorial "Ultra-high speed sampling optical techniques"** within the international conference SPIE **APOC 2008** (Asia-Pacifi Optical Communications) 26-30 Ottobre 2008 Hangzhou, Cina.
2008	**Workshop organization "All-optical memories and flip-flops"** within the international conference IEEE Photonics in Switching, August 4, 2008, Sapporo, Japan.
From 2007	She is **member** of the **IEEE Photonics in Switching technical committee**
From 2007	She is **member of the European Commission within FP7, Semaphore (France/Belgium), Archimedes and Thalis (Greece) research project evaluation platforms**
2007	**Workshop organization "Digital photonics for signal processing in broad-band all-optical communication"** within the international conference IEEE Photonics in Switching, Agust 19, 2007, San Francisco, USA
2007	**Member of the organizing committee of 2007 Japan-Italy Bilateral Workshop on Photonics for Communication,** july 4-6, 2007, Osaka, Japan.
2006	**Member of the organizing committee of 2006 China-Italy Bilateral Workshop on Photonics for Communication and Sensing ,** October 22-23, 2006, Xi'an, China.
2004-2007	She is **member** of the **OAA** (Optical Amplifiers and their Applications) **technical committee**
2004	**Member of the organizing committee** of the international conference **IFIP OpNeTec 2004** (Optical Networks & Tecnologies), October 18-20, 2004 Pisa.

From 2004	She is in the **Board of reviewers** of , Wiley Editor, Nature Photonics, IEEE/OSA Journal of Lightwave Technology, IEEE Journal of Selected Topics in Quantum Electronics, IEEE Journal of Quantum Electronics, IEEE Photonics Technology Letters, IEEE Photonics Journal, IEE Electronics Letters, OSA Optics Express, OSA Optics Letters, Elsevier Optics Communications, Chinese Optics Letters Optics and Laser Technology, Optical Fiber Technology.

TEACHING ACTIVITIES

From 2016	**Professor** of the additional course "Photonics Laboratory for Telecomunications", at Scuola Superiore Sant'Anna, in Pisa Italy
2017	**Lecturer** of "Photonics functionalities for 5G and beyond", Ljubljana Winter school within the H2020 Project "FIWIN5G: FIber-Wireless Integrated Networks for 5th Generation delivery"
2016	**Lecturer** of "Photonics for Communications" within the 96° orientation course organized by the Scuola Normale Superiore, San Miniato-Pisa, Italy, July 2016
From 2015	**Professor** of "Microwave photonics", and "photonics in switching" courses at Scuola Superiore Sant'Anna, in Pisa Italy.
2013-2014	She is **contract professor** within the International Master "Smart Solutions-smart community" of Scuola superiore Sant'Anna, sponsored by Telecom, for the course "Digital and microwave photonics"
From 2005	She is **lecturer** within the International Master on Communication Networks Engineering organized by Scuola Superiore Sant'Anna, in Pisa Italy.

2009	**Lecturer** within the Summer School of Information Engineering, Bressanone, Italy
October 2005	She has been **lecturer** in the Training Course on "Fibre optics for optical fibre communications", in Cape Coast, Ghana
2004-2006	**Contract Professor** within the "Optical Communications" course at Pisa University in Pisa Italy.
2004	**Contract Professor** within the "Calculator networks" corse at Engineering Facolty of University of Pavia in Mantova.
2003-2007	**Contract Professor** within the project "Optical Fiber Communications" at ISIS Mattei Institute, Rosignano Italy.
1999- 2001	She was involved in teaching activity within the "Optical Communications" course at Parma University.
1998	**External member of the committee** for school-leaving exam at Istituto Tecnico ITIS-ST A. Berenini in Fidenza, Parma.

STUDENT SUPERVISOR ACTIVITY	
From 2000	>30 master students
	>20 PhD students

PhD THESIS EXTERNAL EXAMINER	
From 2015	4 thesis in UK (2), Ireland and Germany

FOREIGN LANGUAGES

- English
- French

COMPUTER SCIENCE SKILL

Programming languages: Pascal, Assembly, C, Fortran, ...
Operating systems: UNIX, MS-DOS, WINDOWS.
Word Processing: Word , Latex, Slitex.
Application softwares: PCB, MatLab, LabView, BroadNed, OptSim, Pspice, Xvgr, Xmgr, Excel,
        PowerPoint, CorelDraw, AmiPro, Photostyler, Ledit, Padsdemo ...

PUBLICATIONS

Books

1. "Photonics for Radar Networks and Electronic Warfare Systems" Editors: Ghelfi, P, Laghezza F., A. Bogoni,, accepted for publication on IET SciTech Book Series: Radar, Antennas and Electromagnetics

2. A. Bogoni, A.E. Willner, "All-optical signal processing", chap. "Photonic signal processing for logic and computation" Springer Publishers, 2014, Chapter DOI: 10.1007/978-3-319-14992-9_6

3. Berrettini G., Bogoni A., Fresi F., Meloni G. and Poti L., "Advances in Lasers and Electro optics", chap. "Evolution of Optical Sampling" I-Tech Education and Publishing KG, ISBN 978-953-7619-X-X, Vienna – Austria, 2009

4. Porzi C., Guina M., Calabretta N., Bogoni A., Poti L., "Semiconductor Technologies", chap. "Applications of saturable absorption-based nonlinear vertical-cavity semiconductor devices for all-optical signal processing", ITech Education and Publishing KG, ISBN 978-953-7619-X-X, Vienna - Austria, 2009

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