

Thursday, October 13th			Friday, October 14th		
Auditorium			Auditorium		
14:00 to 15:30	<b>Optical Communication 1</b>	<b>Chair: Joaquim Ferreira Martins Filho (UFPE)</b>	14:10 to 15:30	<b>Optical Communication 2</b>	<b>Chair: Daniel Augusto Ribeiro Chaves (UPE)</b>
14:00 to 14:30	<b>(Invited Paper)</b> Wideband Amplification for the Next	Dr. Marconilio José da Silva (CPQD, Brazil)	14:10 to 14:30	<b>(Invited Paper)</b> Integrated photonics in access networks: the challenges.	António Teixeira (University of Aveiro)
14:30 to 14:50	Routing Traffic Distribution and the Performance	Kelly Costa and Fábio Della Nina (UFABC, Brazil); Luiz H	14:30 to 14:50	Performance Evaluation of Elastic Optical Networks under Scenarios with Unequal	Fábio Della Nina and Kelly Costa (UFABC, Brazil); Luiz H Bonani
14:50 to 15:10	FE-OCMDMA applied to C-RAN fronthaul in future mobile	Arthur G Bueno and Andrea Chiuchiarrelli (UFMG, Brazil)	14:50 to 15:10	Design of a coherent optical receiver on a silicon nitride platform for mode	Ítalo Albuquerque Araújo, João Gadelha and Adolfo Fernandes
15:10 to 15:30	Estimating Amplifier Cascade Output Signal Using an Artificial	José C. Pinheiro, Filho (Universidade Federal de Alagoas,	15:10 to 15:30	Theoretical Analysis of the Transmission Efficiency of a (6 + 1)×1 Pump-Signal	Lucas Mendes (University of Sao Paulo, Brazil); Ricardo E. Samad
16:00 to 17:30	<b>Lasers 1</b>	<b>Chair: Carlos Jacinto (UFAL)</b>	16:00 to 17:30	<b>Biophotonics</b>	<b>Chair: Renato E. de Araujo (UFPE)</b>
16:00 to 16:30	<b>(Invited Paper)</b> Flexible, Stretchable, Plasmonically Enhanced Random Lasers and Random Fiber Lasers	Anderson S. L. Gomes (UFPE)	16:00 to 16:30	<b>(Invited Paper)</b> Novel photonic technologies for biosensing at the point of need	Sebastian Wachsmann-Hogiu (McGill University, Canada)
16:30 to 16:50	Numerical solution of atmospheric laser beam propagation using artificial compressibility and pseudo-spectral methods	Paulo Jorge de Moraes and Rubens Cavalcante da Silva (University of Sao Paulo, Brazil); Wagner de Rossi	16:30 to 16:50	Identifying enamel demineralization using high performance convolutional neural network	Amanda Caramel-Juvino (Instituto de Pesquisas Energéticas e Nucleares, IPEN/CNEN, Brazil); Sajid Farooq (Nuclear and Energy
16:50 to 17:10	Solution of an YDFA in Tandem-Pumping configuration with ASE using the RK4 method	Pedro Bernardo S. Melo (University of Sao Paulo, Brazil); Ricardo E. Samad (IPEN/CNEN, Brazil); Claudio C. Motta	16:50 to 17:10	Correlation Between Human Skin Optical Properties and Colorimetry Using Individual Typology Angle	Luismar Barbosa da Cruz Junior (UFU, Brazil); Carlos Eduardo Girasol, Pedro Coltro, Rinaldo Guirro and Luciano Bachmann
17:10 to 17:30	Ultrafast laser micromachining of submillimetric de Laval nozzles in alumina for laser electron acceleration	Armando V. F. Zuffi (IPEN/CNEN, Brazil); Fabio Tabacow and Nilson Vieira (IPEN-CNEN/SP, Brazil); Ricardo E.	17:10 to 17:30	Superior Machine Learning Method for breast cancer cell lines identification	Sajid Farooq (University of Pernambuco, Brazil); Amanda Caramel-Juvino, Matheus del Valle, Sofia dos Santos and Emerson
17:30 to 17:50	<b>(Technical Talk)</b> Sensores FBG em aplicações de SHM “Structural Health Monitoring”	Danilo Ginez, Hottinger Brül & Kjær A/S	17:30 to 17:50	Aminolevulinic acid-based metallic nanoparticles: Applications in Agriculture	Isabela Lopes (Universidade Federal de São Paulo, Brazil); Marcia Franzolin and Susana Barreto (Instituto Butantan, Brazil); Carla
Room 2			Room 2		
14:00 to 15:30	<b>Optics and Instrumentation</b>	<b>Chair: Marcio Miranda (UFPE)</b>	14:00 to 15:30	<b>Optics and Instrumentation</b>	<b>Chair: Marcelo Martins Werneck (UFRJ)</b>
14:00 to 14:30	<b>(Invited Paper)</b> Scattering evaluation in nanoparticle liquid suspensions using Z-scan-thermal-lens configuration.	Georges Boudebs (University of Angers, France)	14:00 to 14:30	<b>(Invited Paper)</b> Optical metrology of structures and surfaces	Silvania Pereira (DELFT University)
14:30 to 14:50	Anomalous diffusion on a two-particle quantum walk	Rodrigo Barbosa (University of Navarra, Spain); Igor de	14:30 to 14:50	Temperature artifacts on two-dimensional thermal imaging of upconverting	Jefferson Augusto de Oliveira Galindo and Allison Pessoa
14:50 to 15:10	Chemical sample classification using autoencoder-based spectroscopy	José Paulo G. de Oliveira (University of Pernambuco & UFPE, Brazil); Carmelo Bastos-Filho (Universidade de	14:50 to 15:10	A Software-Based Lock-in Amplifier for Optical Spectroscopy Applications	Hugo A. Fossêca (University of Pernambuco, Brazil); Ricardo Ataíde Lima (Universidade de Pernambuco, Brazil); Diego Rativa
15:10 to 15:30	Characterization of nonlinear optical constants in turbid media using the Scattered Light Imaging Method	Kelly Jorge (Universidade Federal de São Paulo, Brazil); Anderson M Amaral (Universidade de Pernambuco,	15:10 to 15:30	LED-POF Compound as Current Sensor for High-Voltage Transmission Lines	Marcelo Werneck, Paulo Henrique S Pinto and Renato Bellini (Universidade Federal do Rio de Janeiro, Brazil); Juan D Lopez
16:00 to 17:30	<b>Integrated Photonics 1</b>	<b>Chair: Cid. B. de Araújo (UFPE)</b>	16:10 to 18:10	<b>Lasers 2</b>	<b>Chair: José Ferráz (UFRPE)</b>
16:00 to 16:30	A Finite-Difference Time-Domain analysis of Fiber Bragg Gratings	Davi P. Nacaratti (University of Sao Paulo, Brazil); Ricardo E. Samad (IPEN/CNEN, Brazil); Claudio C. Motta	16:10 to 16:30	Tunable diode laser surface plasmon spectroscopy	Gabriel F Fernandes and Raoni F Gois (Universidade Federal de Pernambuco, Brazil); Ernande Melo (Universidade Estadual do
16:30 to 16:50	Fabrication of Rib Waveguides with 3D printing and their Characterization	Fábio G Borges and Bruno Denadaí (Federal University of Technology - Paraná (UTFPR), Brazil); Andréia Macedo	16:30 to 16:50	Thermodynamic measurement of non-equilibrium stochastic processes in optical tweezers	Thalyta T. Martins (University of Sao Paulo, Brazil); Lucas Kamizaki (Unicamp, Brazil); Sergio R. Muniz (University of Sao Paulo, Brazil)
16:50 to 17:10	Role of the ZnO crystallinity on the Er <sup>3+</sup> Optical Emissions	Camila Ianhez-Pereira, Marcio Godoy and Ariano Rodrigues (UFSCar, Brazil)	16:50 to 17:10	Power analysis of a microstructured vector light beam composed of a continuous superposition of zeroth order ideal Bessel beams	Vinicius de Angelis (Sao Carlos School of Engineering, University of Sao Paulo (EESC - USP), Brazil); Leonardo Ambrosio (EESC/USP,
17:10 to 17:30	Spatial coherence mapping using NV centers in diamond	Lucas N. S. de Andrade (University of Sao Paulo, Brazil); Charlie O. Oncebay Segura (University of Sao Paulo,	17:10 to 17:30	Numerical simulation tool and experimental set-up for measuring the modal structure of a broad area semiconductor laser diode	Fernando Carlos Romano and Niklaus Wetter (Instituto de Pesquisas Energéticas e Nucleares, Brazil)
17:30 to 17:50	Numerical simulation on modified chemical vapor deposition (MCVD) thermal flow field	Rubens Cavalcante da Silva and Paulo Jorge de Moraes (University of Sao Paulo, Brazil); A Carvalho (University	17:30 to 18:10	<b>(Technical Talk)</b> Quantum Computing Test, Measurements, Automation and Processing Tools.	Keysight - Xioranny Linares
Room 3			Room 3		
14:00 to 15:30	<b>Nanophotonics and Plasmonics 1</b>	<b>Chair: Luis Arturo Gómez Malagón (UPE)</b>	14:00 to 15:30	<b>Nanophotonics and Plasmonics 2</b>	<b>Chair: Diego Rativa (UPE)</b>
14:00 to 14:30	<b>(Invited Paper)</b> Illuminating materials: The materials science of light emitting diodes	Rachel Oliver. IEEE Distinguished Lecturer.	14:00 to 14:30	<b>(Invited Paper)</b> Combining pulsed lasers and photothermal nanoparticles for delivering functional molecules in living cells and beyond	Kevin Braeckmans (Ghent University, Belgium)
14:30 to 14:50	Solar Harvesting Application with Gold Nanospheres: the Influence of Particle Size	Túlio L Pedrosa (Universidade Federal de Pernambuco, Brazil); Caio V. P. Vital (Federal University of	14:30 to 14:50	Detection of Glyphosate in Water with Photonic-Tailored Silver Nanoparticles	Lays C. Seixas Costa (Universidade Tecnológica Federal do Paraná); Elberth Manfron Schiefer (University of Technology -
14:50 to 15:10	Aminolevulinic acid-based metallic nanoparticles: Applications in Agriculture	Isabela Lopes (Universidade Federal de São Paulo, Brazil); Marcia Franzolin and Susana Barreto (Instituto	14:50 to 15:10	Selecting silver nanoshells for colorimetric sensors	Raphael Baltar (Federal Institute of Education, Science and Technology of Maranhão, Brazil); Renato Evangelista de Araujo
15:10 to 15:30	Study of Interferents of a Plasmonic Sensor for Uremic Toxins	Elberth Manfron Schiefer (University of Technology - Paraná, Brazil); Andressa Santos (UFPR, Brazil); Marcia	15:10 to 15:30	Effect of the addition of thermoxidized soybean oil on the fluorescence spectra of silver nanoparticles synthesized with extract of Mimosa catapiba	Carla Lopes (Universidade Federal de São Paulo, Brazil); Lilia Courrol (Universidade Federal de São Paulo & Instituto de
16:00 to 17:50	<b>Sensors, Image and Illumination 1</b>	<b>Chair: Eduardo Fontana (UFPE)</b>	16:00 to 17:50	<b>Sensors, Image and Illumination 2</b>	<b>Chair: Brian Vohnsen (UCD, Ireland)</b>
16:00 to 16:30	<b>(Invited Paper)</b> Optical and Fiber Optic Sensors – Theory and Applications	Marcelo Martins Werneck (UFRJ)	16:00 to 16:30	New-generation hollow-core photonic crystal fibers and their outstanding possibilities	Jonas H Osório (UNICAMP, Brazil)
16:30 to 16:50	Application of optical microsphere in fiber optic sensors for measurement of electrochemical processes	Paulina Listewnik (Gdańsk University of Technology, Poland)	16:30 to 16:50	Analysis of 3-D waveguides in a cylindrical lens solar concentrator	Marcos C. Ramos (Universidade Federal Rural de Pernambuco, Brazil); Caio V. P. Vital (Federal University of Pernambuco, Brazil);
16:50 to 17:10	Computational Modeling of D-shaped Optical Fiber Nitrate and Sulfate Sensor	Thales H. Castro de Barros (Federal University of Pernambuco, Brazil); Henrique Patriota Alves (Federal	16:50 to 17:10	A study comparative between Magnetic Field Sensors Based on in-Fiber Fabry-Pérot cavity Interferometer and on etched side-hole Fiber	Larissa Beserra Soares (Photonics and Instrumentation Laboratory, Brazil); Juan D Lopez (Universidade Federal do Rio de
17:10 to 17:30	Polarizing fiber temperature sensor powered remotely by circularly polarized light	Martin Kyselak (University of Defense, Czech Republic); David Grenar (Brno University of Technology, Czech	17:10 to 17:30	Ti/Au layers impact in prism-based plasmonic sensing of ethanol-fuel purity detection	Jorge R Fernández and Vitor Freire (UNICAMP, Brazil); Hugo Enrique Hernandez-Figueroa (Unicamp, Brazil)
17:30 to 17:50	Hollow-core fibers for curvature sensing	Jonas H Osório (University of Campinas, Brazil); William			