

Thursday, October 13th			Friday, October 14th		
<b>Auditorium</b>			<b>Auditorium</b>		
<b>09:00 to 12:30</b>	<b>Plenaries 1</b>	<b>Chairs: Carmelo B.Filho and Anderson S. L. Gomes</b>	<b>09:00 to 12:30</b>	<b>Plenaries 2</b>	<b>Chairs: Diego Rativa/R. E. de Araujo</b>
09:00 to 09:45	Photonics Research and Innovation Strategies of Pernambuco/Brazil	Carmelo Bastos Filho/ Anderson S. Leonidas Gomes	09:00 to 09:45	Microwave Photonics and Application to 6G systems	Arismar Cerqueira Sodré Junior (INATEL)
09:45 to 10:30	The world of optical solitons in ultrafast fiber lasers.	Philippe Grelu (University of Burgundy, France)	09:45 to 10:30	Exploring spontaneous emission for building up global quantum networks	Daniel Felinto (UFPE)
11:00 to 11:45	Metal-Nanostructures for Nonlinear Photonics	Cid Bartolomeu de Araujo (UFPE)	11:00 to 11:45	Status of Luminescence Nanothermometers for Biomedicine	Carlos Jacinto da Silva (UFAL)
11:45 to 12:30	Understanding the optics of the retina and photoreceptors with ballistic photons	Brian Vohnsen (University College Dublin)	11:45 to 12:30	To be announced	Roberto Morandotti (INRS-EMT)
<b>Room 1</b>			<b>Room 1</b>		
<b>14:00 to 15:30</b>	<b>Optical Communication 1</b>	<b>Chair: Joaquim Ferreira Martins Filho</b>	<b>14:00 to 15:30</b>	<b>Optical Communication 2</b>	<b>Chair:</b>
14:00 to 14:30	<b>(Invited Paper)</b> Wideband Amplification for the Next Generation of Optical Transport Networks	Dr. Marcionilo Silva (CPQD, Brazil)	14:00 to 14:30	<b>(Invited Paper)</b> Integrated photonics in access networks: the challenges.	Antônio Teixeira (University of Aveiro)
14:30 to 14:50	Routing Traffic Distribution and the Performance Correspondence for Optical Networks	Kelly Costa et al.	14:30 to 14:50	Performance Evaluation of Elastic Optical Networks under Scenarios with Unequal Distribution of Service Types per Route Length	Fábio Della Nina et al.
14:50 to 15:10	FE-OCDMA applied to C-RAN fronthaul in future mobile networks	Arthur G Bueno et al.	14:50 to 15:10	Design of a coherent optical receiver on a silicon nitride platform for mode multiplexed systems	Italo Albuquerque et al.
15:10 to 15:30	Estimating Amplifier Cascade Output Signal Using an Artificial Neural Network and Considering Tilted Signals	José C. Pinheiro, Filho et al.	15:10 to 15:30	Theoretical Analysis of the Transmission Efficiency of a (6 + 1)×1 Pump-Signal Combiner	Lucas Mendes et al.
<b>16:10 to 17:30</b>	<b>Integrated Photonics 1</b>	<b>Chair:</b>	<b>16:00 to 17:30</b>	<b>Biophotonics</b>	<b>Chair: Renato de Araujo</b>
16:10 to 16:30	A Finite-Difference Time-Domain analysis of Fiber Bragg Gratings	Davi P. Nacaratti et al.	<b>16:00 to 16:30</b>	<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	Fabrication of Rib Waveguides with 3D printing and their Characterization	Fábio G Borges Paraná et al.	16:30 to 16:50	Identifying enamel demineralization using high performance convolutional neural network	Amanda Caramel-Juvino et al.
16:50 to 17:10	Role of the ZnO crystallinity on the Er <sup>3+</sup> Optical Emissions	Camila Ianhez-Pereira et al.	16:50 to 17:10	Correlation Between Human Skin Optical Properties and Colorimetry Using Individual Typology Angle	Luismar Barbosa da Cruz Junior et al.
17:10 to 17:30	Spatial coherence mapping using NV centers in diamond	Lucas N. S. de Andrade et al.	17:10 to 17:30	Superior Machine Learning Method for breast cancer cell lines identification	Sajid Farooq et al.
17:30 to 17:50	Numerical simulation on modified chemical vapor deposition (MCVD) thermal flow field	Rubens Cavalcante da Silva et al.	17:30 to 17:50	Aminolevulinic acid-based metallic nanoparticles: Applications in Agriculture	Isabela Lopes et al.
<b>Room 2</b>			<b>Room 2</b>		
<b>14:00 to 15:30</b>	<b>Optics and Instrumentation</b>	<b>Chair:</b>	<b>14:10 to 15:30</b>	<b>Optics and Instrumentation</b>	<b>Chair:</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)	14:10 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 et al.	14:30 to 14:50	Temperature artifacts on two-dimensional thermal imaging of upconverting microcrystals	Jefferson Galindo et al.
14:50 to 15:10	Chemical sample classification using autoencoder-based spectroscopy	José Paulo Oliveira et al.	14:50 to 15:10	A Software-Based Lock-in Amplifier for Optical Spectroscopy Applications	Hugo A. Fonsêca et al.
15:10 to 15:30	Characterization of nonlinear optical constants in turbid media using the Scattered Light Imaging Method	Kelly Jorge et al.	15:10 to 15:30	LED-POF Compound as Current Sensor for High-Voltage Transmission Lines	Marcelo Werneck et al.
<b>16:00 to 17:30</b>	<b>Lasers 1</b>	<b>Chair:</b>	<b>16:10 to 17:40</b>	<b>Lasers 2</b>	<b>Chair:</b>
16:00 to 16:30	<b>(Invited Paper)</b> Random Lasers	Anderson S. L. Gomes (UFPE)	16:10 to 16:30	Tunable diode laser surface plasmon spectroscopy	Gabriel F Fernandes et al.
16:30 to 16:50	Numerical solution of atmospheric laser beam propagation using artificial compressibility and pseudo-spectral methods	Allan Berezcki et al.	16:30 to 16:50	Thermodynamic measurement of non-equilibrium stochastic processes in optical tweezers	Thalyta T. Martins et al.
16:50 to 17:10	Solution of an YDFA in Tandem-Pumping configuration with ASE using the RK4 method	Pedro Bernardo S. Melo et al.	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 et al.
17:10 to 17:30	Ultrafast laser micromachining of submillimetric de Laval nozzles in alumina for laser electron acceleration	Armando V. F. Zuffi et al.	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 et al.
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	Technical Talk Reserved	
<b>Room 3</b>			<b>Room 3</b>		
<b>14:00 to 15:30</b>	<b>Nanophotonics and Plasmonics 1</b>	<b>Chair:</b>	<b>14:00 to 15:30</b>	<b>Nanophotonics and Plasmonics 2</b>	<b>Chair: Renato. E. de Araujo</b>
14:00 to 14:30	<b>(Invited Paper)</b> Illuminating materials: The materials science of light emitting diodes	Rachel Oliver. University of Cambridge (UK)	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 et al.	14:30 to 14:50	Detection of Glyphosate in Water with Photonic-Tailored Silver Nanoparticles	Lays C. Seixas Costa et al.
14:50 to 15:10	Aminolevulinic acid-based metallic nanoparticles: Applications in Agriculture	Isabela Lopes et al.	14:50 to 15:10	Selecting silver nanoshells for colorimetric sensors	Raphael Baltar et al.
15:10 to 15:30	Study of Interferents of a Plasmonic Sensor for Uremic Toxins	Elberth Manfron Schiefer et al.	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 catapappa	Carla Lopes et al.
<b>16:00 to 17:50</b>	<b>Sensors, Image and Illumination 1</b>	<b>Chair: Daniel Moutinho Pataca</b>	<b>16:00 to 17:30</b>	<b>Sensors, Image and Illumination 2</b>	<b>Chair:</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 et al.	16:30 to 16:50	Analysis of 3-D waveguides in a cylindrical lens solar concentrator	Marcos Ramos et al.
16:50 to 17:10	Computational Modeling of D-shaped Optical Fiber Nitrate and Sulfate Sensor	Thales H. Castro de Barros et al.	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 et al.
17:10 to 17:30	Polarizing fiber temperature sensor powered remotely by circularly polarized light	Martin Kyselak et al.	17:10 to 17:30	Ti/Au layers impact in prism-based plasmonic sensing of ethanol-fuel purity detection	Jorge R Fernández et al.
17:30 to 17:50	Hollow-core fibers for curvature sensing	Jonas H Osório et al.	17:30 to 17:50	Technical Talk Reserved	