AOP 2022

SCIENTIFIC PROGRAM

	#	Title	1st Author	Type
MONDAY, JULY 18				
Oppening Session				
13:45 - 14:25		The Vice-Mayor of Guimarães, Dr. Adelina Paula Pinto Prof. Dr. Humberto Michinel (Secretary General of ICO) Prof. Dr. Gilles Pauliat (President of EOS) Prof. Dr. Cesar Costa Vera (Counselour of RIAO) Prof. Dr. Luis Plaja (President of SEDOPTICA) Prof. Dr. Manuel Filipe Costa (Chairperson and president of SPOF)		
14:25 - 15:55 (1h30m)				
Plenary Pl1	6676	Trends in Optical Coherence Tomography	Adrian Podoleanu	Plenary (45 min=40+5)
Plenary Pl2	6534	The role of the laser technologies on the fabrication of organ-on-a-chip devices.	Maria Teresa Flores Arias	Plenary (45 min=40+5)
Chair(s): António Lobo				
Coffee Break				
Parallel Sessions Mo.1.a	6816	A touch of symmetry: High-harmonic generation from low-dimensional crystals.	Luis Plaja	Keynote (30 min=25+5)
16:30 - 17:50 (1:20 h)	6595	Towards 5-cycle, multi-mJ-level mid-IR capability at the L2I	Joana Alves	Invited (20 min=15+5)
Chair(s): Hugo Pires	6707	Scanning the flying focus of a tabletop vortex EUV beam	Patricia Estrela	Oral (15 min=12+3)
	6736	Various routes for VIS-to-UVC upconverted emission enhancement in lanthanide-doped nanoparticles	Patryk Falat	Oral (15 min=12+3)
Parallel Sessions Mo.1.b	6727	Plasmonic/magnetic liposomes based on nanoparticles with multicore-shell architecture for chemo/thermothera	Ana Rita Oliveira Rodrigues	Oral (15 min=12+3)
16:30 - 17:45 (1:15 h)	6669	Manganese ferrite nanoparticle clusters covered with gold nanorods for application in cancer phototherapy	Irina Soraia Rainho Rio	Oral (15 min=12+3)
Chair(s): António Lobo	6542	Fiber optic sensor for real-time monitoring of cryosurgery depth	Aris Ikiades	Oral (15 min=12+3)
	6686	Pressure and Angle Sensors with Optical Fiber for Instrumentation of the PrHand Hand Prosthesis	Camilo Arturo Rodríguez Díaz	Oral (15 min=12+3)
	6691	Development of tissue-mimicking phantoms for jaundice assessment device validation	Fernando Sacilotto Crivellaro	Oral (15 min=12+3)
Parallel Sessions Mo.1.c	6185	Atmospheric Dispersion Correction for High-Resolution Spectrographs: Past, Present, and Future	Bachar Wehbe	Invited (20 min=15+5)
16:30 - 17:50 (1:20 h)	6411	Comparison between the scanning pentaprism and the Hartman method for wavefront analysis	Nuno Gonçalves	Oral (15 min=12+3)
Chair(s): Justo Arines	6509	Imaging sensors for spacially resolved solar spectroscopy instrument	Inês Leite	Oral (15 min=12+3)
	6513	Characterization of Light Diffraction by a Digital Micromirror Device	Cédric Pereira	Oral (15 min=12+3)
	6611	Development of optical characterization and testing instrument for Sentinel-5 Earth Observation mission	Juliana Kuhlmann Abrantes	Oral (15 min=12+3)
SOCIAL PROGRAM				

TUESDAY, JULY 19				
Plenary Pl3	6622	Topological Optical Clusters	Humberto Michinel	Plenary (45 min=40+5)
8:55 - 9:40 (45 min)				
Chair(s): Giulia Fulvia Mancini				
Parallel Sessions Tu.1.a	6555	Time-refraction and temporal optical processes	Jose Tito Mendonca	Keynote (30 min=25+5)
9:45 - 10:45 (1 h)	6507	Model Hamiltonians of open quantum optical systems: Evolvement from hermiticity to commutativity	Konstantin Zloshchastiev	Oral (15 min=12+3)
Chair(s): Jorge Vieira	6803	Investigation of cold atom turbulent dynamics through a spatially resolved pump-probe diagnostic.	Ruggero Giampaoli	Oral (15 min=12+3)
Parallel Sessions Tu.1.b	5964	Dots-in-Host Semiconductors for Improved Light Management	Miguel Diogo Furtado Alexandre	Invited (20 min=15+5)
9:45 - 10:45 (1 h)	6533	Label-Free Multiparametric Analysis Using Photonic Crystal-Based Biosensors	Galina Nifontova	Invited (20 min=15+5)
Chair(s): Joel Borges	6587	Study of the impact on the absorption of III-V semiconductor nanopillars coated with dielectric-metal shells	Joao Pedro Pinheiro Lourenço	Oral (15 min=12+3)
Parallel Sessions Tu.1.c	6530	Synchronous and asynchronous 3D examination of the eye with a slit lamp	Justo Arines	Oral (15 min=12+3)
9:45 - 10:45 (1 h)	6529	Teaching Optometry: setup for understanding the subjective refraction protocol and patient answers	Justo Arines	Oral (15 min=12+3)
Chair(s): Sandra Franco	6504	A Pilot Outreach Program for Optics and Photonics: Develop the Advanced and Pioneering Concepts	Haider M. Al-Juboori	Oral (15 min=12+3)
Coffee Break				
Parallel Sessions Tu.2.a	6592	Optical properties of low dimensional materials	Pawel Hawrylak	Keynote (30 min=25+5)
11:15 - 12:30 (1h15m)	6600	Superradiant optical shocks in arbitrarily diluted media	Jorge Vieira	Keynote (30 min=25+5)
Chair(s): Mikhail Vasilevskiy	6656	Reversible and non-reversible effects of silver nanoparticles on the photoluminescence properties of quantum en	Victor Krivenkov	Invited (20 min=15+5)
Parallel Sessions Tu.2.b	6567	Multi-wavelength optical phase unwrapping using low coherence Mirau interferometer	Amalia Martínez-García	Keynote (30 min=25+5)
11:15 - 12:30 (1h15m)	6488	White light interferometer for Fabry-Perot cavities sensors with absolute physical measurement	João Manuel Gonçalves Pereira do	Oral (15 min=12+3)
Chair(s): António Lobo	6711	A Low-cost Portable Interrogator for Dynamic Monitoring of Wavelength-Based Sensors	Camilo Arturo Rodríguez Díaz	Oral (15 min=12+3)
	6715	Development of a Low-Cost Interrogation System Using a MEMS Fabry-Pérot Tunable Filter	João Carlos Costa Araújo	Oral (15 min=12+3)
Parallel Sessions Tu.2.c	6701	Single-cycle laser pulses through nonlinear pulse compression	Mariana Silva	Oral (15 min=12+3)
11:15 - 12:30 (1h15m)	6606	Pulse broadening and compression of visible spectral range laser in a Herriott cell	Victor Hariton	Oral (15 min=12+3)
Chair(s): Maria Teresa Flores-Arias	6681	YCOB based ultrabroadband optical parametric amplification with a sub-picosecond pump source	Hugo Pires	Invited (20 min=15+5)
	6486	High contrast front-end for a petawatt laser system designed for electron acceleration and high intensity laser-ma	Mario Galletti	Invited (20 min=15+5)
Lunch				
Parallel Sessions Tu.3.a	6527	Engineering the pupil for wavefront masking	Justo Arines	keynote (30 min)
14:25 - 15:55 (1h30m)	6709	What is the impact of accommodative insufficiency on the optical quality of the eye?	Jessica Rafaela Moreira Gomes	Oral (15 min=12+3)
Chair(s): António Baptista	6528	Low cost adherent lenses for presbyopia	Justo Arines	Oral (15 min=12+3)
	6589	Assessment of central and peripheral accommodative lag by aberrometry	Kishor Sapkota	Oral (15 min=12+3)

	~~6479~~	~~Comparison between central corneal thickness, anterior chamber depth and axial length values with and without c~~	~~Hugo Pena-Verdeal~~	~~Oral (15 min=12+3)~~ Poster
Parallel Sessions Tu.3.b	6744	Subaquatic laser induced plasma-assisted ablation for channels and wells fabrication on glass substrates	Carmen Bao	keynote (30 min)
14:25 - 16:00 (1h35m)	6695	Optimization of pulsed laser deposition process of superconducting YBa2Cu3O7−δ films	Mohd Mustafa Awang Kechik	Invited (20 min=15+5)
Chair(s): Elisabete Freitas	6828	Optical, structural, morphological and chemical properties of doped TiO2 nanoparticles with FeCl3	Cátia Juliana Pereira Afonso	Oral (15 min=12+3)
	6813	Thermochromism applied to Transportation Engineering: asphalt roads and paints	Orlando de Sousa Lima Júnior	Oral (15 min=12+3)
	6723	Photocatalytic degradation of Malachite green using magnetic zinc and magnesium ferrite nanoparticles function	Ricardo Jorge Cunha Fernandes	Oral (15 min=12+3)
Parallel Sessions Tu.3.c	6837	Ultrafast spectroscopy of biomolecules in the ultraviolet range	Rocío Borrego-Varillas	keynote (30 min)
14:25 - 15:55 (1h30m)	6607	Assessment of lipid formulations to develop multi-stimuli-responsive solid magnetoliposomes using fluorescence	Beatriz Dias Cardoso	Oral (15 min=12+3)
Chair(s): Ana Rita Rodrigues	6724	Highly selective, compact and efficient vertical in-coupling for interferometric optical biosensors	Ursula Fernanda Salazar Roggero	Oral (15 min=12+3)
	6734	Development of an Escherichia coli optical biosensor with computational validation	Regina Célia da Silva barros Allil	Oral (15 min=12+3)
Poster Sessions Tu.T	6696	Design and simulation of 3D printed freeform optics elements	Ana Rocha	Poster
& Coffee Break	6666	Amorphous Silicon Photonic Integrated Circuit for beam steering in Lidar applications	Alessandro Fantoni	Poster
	6731	Ocular accommodation and wavefront aberration in university students	Alshaarawi M.A. Salem	Poster
16:00-17:30 (1h30m)	6579	Effect of accommodation on coma at central and peripheral retina	Kishor Sapkota	Poster
Chair(s): Manuel Filipe Costa	6548	Influence of absorptive tinted filter lenses on contrast sensitivity in healthy participants under three different env	Jacobo Garcia-Queiruga	Poster
Iran Rocha Segundo	6547	Meibomian gland loss area and its relationship with eyelid margin hyperemia and MG orifice plugging	Jacobo Garcia-Queiruga	Poster
Ana Rocha	6546	Differences in the values of Anaglyphs, vectograms and cheiroscopes on participants with low, normal, and high A	Hugo Pena-Verdeal	Poster
André Delgado Coelho	6545	Comparison of three methods for measuring far and near vision heterophoria in free space	Hugo Pena-Verdeal	Poster
	6481	Analysis of the Interferential Lipid Pattern change through 4 and 6 years in Dry Eye Disease patients	Hugo Pena-Verdeal	Poster
(max. poster size - A0)	6720	Hyperspectral Colorimetry of in-vivo dental structures	María de la Natividad Tejada Casa	Poster
	6615	Reservoir computing with nonlinear optical media	Tiago David da Silva Ferreira	Poster
	6732	Detection of Acetic Acid Using a Balloon-type Optical Fibre Sensor	Ana Isabel Freitas	Poster
	6726	Autonomous Optical Tweezers: from automatic trapping to single particle analysis	Felipe Coelho Moreira Ribeiro Cou	Poster
	6718	Absorption and scattering coefficients in the 240-780nm range of daily disposable contact lenses	Javier Ruiz López	Poster
	6716	Guiding losses estimation in hydrogel-based waveguides	Juan Antonio Vallés	Poster
	6708	Noise analysis in self-interference incoherent digital holography	Elena Stoykova	Poster
	6689	Thermoelectric imaging using photothermal radiometry of carriers, photoluminescence mapping in aged samples	Samuel Eligio Zambrano Rojas	Poster
	6679	Methods of optical fibre probes machining for holographic micro-endoscopy	Miroslav Stibůrek	Poster
	6651	Integrating Laser induced breakdown spectroscopy and photogrammetry towards 3D element mapping	Pedro Miguel Oliveira Rodrigues	Poster
	6649	Listening plasmas in Laser Induced Breakdown spectroscopy	Rafael Anjo Cavaco	Poster
	6644	Multimodal approach to mineral identification: merging Laser induced breakdown spectroscopy with hyperspectr	Tomás José Moreira Lopes	Poster
	6640	Drying Patterns of Cerebrospinal Fluid as Indicator for Alzheimer's Disease by a Machine Learning Framework	Laura Arévalo Díaz	Poster
	6629	Low-Cost Ultrafine Motion Control System Design for Nano Positioning and Beam Steering	Gaurav Rajput	Poster
	6628	Color interferometry using the fractional Fourier transform	Juan Manuel Vilardy Orrtiz	Poster
	6627	Real color fractional Fourier transform holograms using fiber optics	Juan Manuel Vilardy Orrtiz	Poster
	6621	Towards real-time identification of trapped particles with UMAP-based classifiers	Joana Magalhães B. Teixeira	Poster
	6620	Raman based DTS using a 1064 nm pump	Joana dos Santos Saraiva Vieira	Poster

	6612	Robust calibration models for the mining industry: from spectral similarity to multimodal analysis	Nuno Miguel Azevedo Silva	Poster
	6572	Nonlinear encryption for multiple images based on a joint transform correlator and the Gyrator transform	Ronal A. Perez	Poster
	6571	Double image encryption system using a nonlinear joint transform correlator in the Fourier domain	Ronal A. Perez	Poster
	6570	Convolution, correlation and generalized shift operations based on the Fresnel transform	Juan Manuel Vilardy Orrtiz	Poster
	6526	Electricity generation from solar irradiation using the Seebeck effect	Johonfri Mendonza Cantillo	Poster
	6524	Multiplexed holographic lenses applied to solar concentrators and passive solar trackers	Eder Manuel Alfaro Alfaro	Poster
	6490	GUI-Based Phase Retrieval Algorithm for the Reconstruction of the Longitudinal Component of Electromagnetic B	Marcos Aviñoá Pérez	Poster
	6474	Percentage estimate of the coffee seeds germination using processing of dynamic speckle images	Juan Manuel Vilardy Orrtiz	Poster
	6929	Optical generation of surface plasmons in graphene with femtosecond laser pulses	Rui Jorge Pinto Dias	Poster
	6537	Au-ZnO thin films: Influence of gold concentration and annealing on the microstructure and plasmonic response	Patrícia Alexandra P. da Silva	Poster
	6699	Diffractive optical element fabrication at chalcogenide thin film surface	Vadims Kolbjonoks	Poster
	6557	Hand grip strength using an FP sensor embedded in 3D printed cantilever	Susana Novais	Poster
	6488	White light interferometer for Fabry-Perot cavities sensors with absolute physical measurement	João Manuel G. Pereira dos Reis	Poster
	6619	Fabry-Perot cavity based on silica tube with steel for Physical parameters measurements	Cristina do Carmo G. Cunha	Poster
	6510	Simulation and development of a prototype for high precision surface metrology	Sílvia Rodrigues Costa	Poster
	6508	Development of plasmonic thin films for new biodetection approaches	Diana Meira	Poster
	6735	*Silicon Nitride Interferometers for Optical Sensing with Multi-micron Dimensions*	*João Costa*	*Poster*
	6479	*Comparison between central corneal thickness, anterior chamber depth and axial length values with and without c*	*Verónica Noya Padín*	*Poster*
	6727	*Plasmonic/magnetic liposomes based on nanoparticles with multicore-shell architecture for chemo/thermotherap*	*Mélanie Fernandes*	*Poster*
	6623	*MMI Splitters and Combiners for Multi-Micron Amorphous Silicon Nitride Rib Waveguides*	*Daniel Gonçalves P. S. Almeida*	*Poster*
	6690	*Ionisation of camphor molecule doped in helium nanodroplets by EUV and soft X-ray photons*	*Sanket Sen*	*Poster online*
	6700	*Effect of bandwidth on Two Plasmon decay instability*	*Sonali Khanna*	*Poster online*
	6697	*Electron spectrum and angular distribution from aerosol jet collimated by an aerodynamic lens*	*Ravishankar Sugumar*	*Poster online*
	6556	*Relativistic electron acceleration at non-relativistic intensities using sub-lambda targets*	*Ratul Sabui*	*Poster online*
SOCIAL PROGRAM				
WEDNESDAY, JULY 20				
Plenary Pl4	6500	Peripheral optics in the eye: from myopia to cataracts	Pablo Artal	Plenary (45 min=40+5)
8:55 - 9:40 (45 min)				
Chair(s): Sandra Franco				
Parallel Sessions We.1.a	5998	Some recent advances in color science	Manuel Melgosa	Keynote (30 min=25+5)
9:45 - 10:45 (1 h)	6721	Color prediction of monolithic and layered dental resin composites of varying thicknesses	María de la Natividad Tejada Casa	Oral (15 min=12+3)
Chair(s): António Baptista	6717	Effect of thickness and printing angle on color of 3D printing dental restorative polymer-based materials.	Javier Ruiz López	Oral (15 min=12+3)
Parallel Sessions We.1.b	6713	Standardization of Diffractive Optical Surfaces	Michael Pfeffer	Keynote (30 min=25+5)

9:45 - 10:45 (1 h)	6601	Optical design for Sport Optics (LEICA)	João Tiago Costa Silva	Invited (20 min=15+5)
Chair(s): Paulo Tavares				
Parallel Sessions We.1.c	6860	Photon bubble turbulence in cold atomic gases: astrophysics in the lab	Hugo Terças	Keynote (30 min=25+5)
9:45 - 10:45 (1 h)	6616	Experimental turbulent states with paraxial fluids of light in photorefractive media	Tiago David da Silva Ferreira	Oral (15 min=12+3)
Chair(s): Jorge Vieira	6047	Expansion Dynamic and Characterization of Stagnation Layer in Laterally Colliding Plasmas: Dependence of Obser	Haider M. Al-Juboori	Oral (15 min=12+3)
Coffee Break				
Parallel Sessions We.2.a	6817	On the total estimation of the electromagnetic field in the focal area with no interaction with the media	David Maluenda Niubó	Keynote (30 min=25+5)
11:15 - 12:15 (1h00m)	6632	Contribution to the improvement of the correlation filter method modal analysis with a spatial light modulator	David Benedicto Baselga	Oral (15 min=12+3)
Chair(s): Nuno Azevedo Silva	6056	Design concepts of a new imaging system for a high-intensity XUV source beam by colour centres excitation in lith	Haider M. Al-Juboori	Oral (15 min=12+3)
Parallel Sessions We.2.b	6685	Rubber vulcanization method for FBG pressure sensors	Camilo Arturo Rodríguez Díaz	Oral (15 min=12+3)
11:15 - 12:30 (1h15m)	6722	A FBG based sensor for horizontal displacement measurements of a small scale tailing dam model.	Willian Lima de Oliveira Filho	Oral (15 min=12+3)
Chair(s): Susana Novais	6950	Fatigue crack growth monitoring using Electronic Speckle Pattern Interferometry	Frederico Preto Direito	Oral (15 min=12+3)
	6704	Innovative hybrid optical sensing design to simultaneously discrimination of pressure and temperature	Fábio Henrique Baptista de Freitas	Oral (15 min=12+3)
	6682	A Fiber Bragg Grating based Accelerometer for Monitoring the Vibration of an Industrial Engine Prototype: A Preli	Camilo Arturo Rodríguez Díaz	Oral (15 min=12+3)
Parallel Sessions We.2.c	6725	Azobenzene based on-fiber waveplates for polarization control	Paulo António M. F. Ribeiro	Invited (20 min=15+5)
11:15 - 12:30 (1h15m)	6593	Optimal filtering of measured Mueller matrices using full Poincaré polarimetry	Juan Carlos Suárez-Bermejo	Oral (15 min=12+3)
Chair(s): José António Rodrigues	6591	Estimation of Zernike polynomials for a highly focused electromagnetic field using polarimetric mapping images a	Kavan Ahmadi	Oral (15 min=12+3)
	6968	The development of test station to characterize the capabilities of emission of LiDAR	Nelssom Fernandez da Cunha	Oral (15 min=12+3)
	6523	Implementation of a Scheimpflug Lidar for Assessment of Native Aerofauna in Tropical Forests in Ecuador	Cesar Costa-Vera	Oral (15 min=12+3)
Lunch				
SOCIAL PROGRAM				
THURSDAY, JULY 21				
Parallel Sessions Th.1.a		*to be announced*	Bert Offrein	Keynote (30 min=25+5)
10:10 - 11:15 (1:05 h)	6531	Neural network computing with large-area lasers	Xavier Porte	Invited (20 min=15+5)
Chair(s): Bruno Romeira	6774	Photonic Neuromorphic Computing with Vertical Cavity Surface Emitting Lasers	Antonio Hurtado	Oral (15 min=12+3)
Parallel Sessions Th.1.b	6584	Dynamic speckle Imaging with SVD compression	Mikhail Levchenko	Oral (15 min=12+3)
10:10 - 11:10 (1 h)	6512	Data Augmentation in 3D Object Detection for self-driving vehicles: the role of original and augmented training sa	Xavier Santos	Oral (15 min=12+3)
Chair(s): Amalia Martínez-García	6145	Intrinsic temperature-compensated fibre optic current/magnetic sensor	Paulo Robalinho	Oral (15 min=12+3)
	4733	Considerations involving the determination of the band gap energy by diffuse reflectance spectroscopy	Iran Gomes da Rocha Segundo	Oral (15 min=12+3)

Parallel Sessions Th.2.a	6578	Coupled two-cores integrated waveguides modal analysis	David Benedicto Baselga	Oral (15 min=12+3)
11:15 - 12:30 (1h15m)	6661	Analysis of power transfer between two multi-core fibers with long-period gratings	Liliana Mendes Sousa	Oral (15 min=12+3)
Chair(s): Ana Rocha	6564	Indoor Guidance of Automated Guided Using Visible Light Communication	Paula Maria Garcia Louro	Oral (15 min=12+3)
	6544	Cooperative Traffic Control using Visible Light Communication	Manuel Augusto Vieira	Oral (15 min=12+3)
	6532	Visible Light Communication-based Indoor Navigation for Mobile Users in Large Buildings	Manuela Vieira	Oral (15 min=12+3)
Parallel Sessions Th.2.b	6804	Photonic tools for single cell analysis	Pedro Alberto da Silva Jorge	Keynote (30 min=25+5)
11:15 - 12:35 (1h20m)	6650	Generation of high-frequency photoacoustic pulses to enhance skin permeation of active molecules	Celso Paiva João	Invited (20 min=15+5)
Chair(s): José Manuel Baptista	6730	Multifunctional liposomes containing magnetic and gold nanoparticles for cancer therapy	Mélanie R. Pereira	Oral (15 min=12+3)
	6641	Detection of Alzheimer's by Machine Learning-assisted Vibrational Spectroscopy in Human Cerebrospinal Fluid	Laura Arévalo Díaz	Oral (15 min=12+3)
Parallel Sessions Th.2.c	6693	Insect-Brain inspired Neuromorphic Nanophotonics	Anders Mikkelsen	Keynote (30 min=25+5)
11:15 - 12:30 (1h15m)	6610	Dendritic-like computation using multimode optical fibers	Miguel C. Soriano	Invited (20 min=15+5)
Chair(s): Bruno Romeira	6586	High-speed Silicon Photonic neuromorphic computing enabled by hardware-aware deep learning methods	Miltiadis Moralis-Pegios	Invited (20 min=15+5)
	6636	Optical Computing with Extreme Learning Machines	Nuno Miguel Azevedo Silva	Oral (15 min=12+3)
Lunch				
Plenary Pl5	6568	Ultrafast ptychography: from tabletop HHG to Free Electron Lasers	Giulia Fulvia Mancini	Plenary (45 min=40+5)
14:25 - 15:10 (45 min)				
Chair(s): Humberto Michinel				
Parallel Sessions Th.3.a	7071	Ultra-fast Laser-induced Molecular Dissociations on Plasmonic Nanoparticles Driven by Tailored Optical Fields: Ma	Cesar Costa-Vera	Keynote (30 min=25+5)
15:15 - 16:30 (1h15m)	6660	Hollow square core fiber sensor for physical parameters measurement	Diana Sofia Antunes Pereira	Oral (15 min=12+3)
Chair(s): Paulo Ribeiro	~~*6735*~~	~~*Silicon Nitride Interferometers for Optical Sensing with Multi-micron Dimensions*~~	~~*João Costa*~~	~~*Oral (15 min=12+3)*~~ *Poster*
	6733	Fiber Loop Mirror temperature sensor interrogated with different techniques	António Vaz Rodrigues	Oral (15 min=12+3)
	6522	Plasmonic and Thermal Properties of Nanostructured Systems Probed with Low-cost Optical Setups	Cesar Costa-Vera	Oral (15 min=12+3)
Parallel Sessions Th.3.b	6465	Highly Sensitive Plasmonic Sensors and Biosensors realized via Polymer Waveguides	Nunzio Cennamo	Keynote (30 min=25+5)
15:15 - 16:30 (1h15m)	6551	Improving plasmonic sensing with suspended core fibres and metallic nanostructured inclusions	José Manuel Baptista	Keynote (30 min=25+5)
Chair(s): Rogério Nogueira	6639	Strongly coupled plasmonic systems on optical fiber sensors	Paulo Sérgio Soares dos Santos	Oral (15 min=12+3)
Parallel Sessions Th.3.c	6740	Room-Temperature Electroluminescence in RTDs: Towards a Universal Model	Elliot R Brown	Keynote (30 min=25+5)
15:15 - 16:30 (1h15m)	6574	Dual-functioning emitter-receiver III-V unipolar and bipolar microLEDs for on-chip neuromorphic photonic circuits	Bejoys Jacob	Oral (15 min=12+3)
Chair(s): José Figueiredo	6625	Resonant Tunnelling Diode – Photodetectors for spiking neural networks	João Pedro Pinheiro Lourenço	Oral (15 min=12+3)
	6692	Towards spiking laser diodes on a III-V/Si nanophotonic platform for neuromorphic applications	Ekaterina Malysheva	Oral (15 min=12+3)
Coffee Break				
Parallel Sessions Th.4.a	6953	Optical nanoantennas: from sensing to killing cancer	Pablo Albella Echave	Keynote (30 min=25+5)

17:00 - 18:30 (1h15m)	6667	Au nanoparticles/semi-conductor thin film prepared by laser annealing and sol-gel	Olivier Soppera	Keynote (30 min=25+5)
Chair(s): Pedro Jorge	*6727*	*Plasmonic/magnetic liposomes based on nanoparticles with multicore-shell architecture for chemo/thermotherap*	*Mélanie Fernandes*	Oral (15 min=12+3)
Parallel Sessions Th.4.b	6535	Gas detection with high-resolution LSPR spectroscopy	Maria Manuela Carvalho Proença	Oral (15 min=12+3)
17:00 - 18:15 (1h15m)	6714	Photonic Crystal Design for Bloch Surface Wave Sensing	Bernardo Santos Dias	Oral (15 min=12+3)
Chair(s): Orlando Frazão	6673	Advanced refractive index sensor using 3-dimensional metamaterial based nano antenna array	Sneha Verma	Oral (15 min=12+3)
	3724	Humidity and touch sensing by capacitive-type sensors obtained by electrochemical anodization	Iran Rocha Segundo	Oral (15 min=12+3)
	7103	25G Receiver and Analysis of Filters Frequency Response	Adebayo Abejide	Oral (15 min=12+3)
Parallel Sessions Th.4.c	6613	Brain-inspired nanophotonic spike computing	Bruno Miguel Patarata	Keynote (30 min=25+5)
17:00 - 18:30 (1h30m)		*to be announced*	Edward Wasige	Invited (20 min=15+5)
Chair(s): José Figueiredo	6706	Two-photon polymerization simulation and fabrication of 3D microprinted suspended waveguides for on-chip opt	Artur Andrishak	Oral (15 min=12+3)
	6671	Subwavelength structures for taper waveguides	Paulo Lourenço	Oral (15 min=12+3)
	6623	*MMI Splitters and Combiners for Multi-Micron Amorphous Silicon Nitride Rib Waveguides*	*Daniel Gonçalves P. S. Almeida*	Oral (15 min=12+3)
FRIDAY, JULY 22				
Parallel Sessions Fr.1.a	6654	Molecularly imprinted nanoparticles: plastic antibodies for optical sensing platforms.	Alessandra Maria Bossi	Keynote (30 min=25+5)
9:45 - 11:20 (1:35 h)	7135	Nanoscopy, Metabolic Imaging and Intracellular Sensing based on Nanophotonics and Nonlinear Microscopy	Jana Nieder	Keynote (30 min=25+5)
Chair(s): Pedro Jorge	6536	Dehydropeptide-based plasmonic lipogels as bionanosystems for controlled drug release	Sérgio Rafael da Silva Veloso	Oral (15 min=12+3)
Beatriz Dias Cardoso	6659	Nanoscale distance sensing using fluorescently-labelled DNA origami tetrahedra on Graphene	João Duarte Gonçalves Azevedo	Oral (15 min=12+3)
	6729	Development of pH-sensitive magnetoliposomes containing shape anisotropic magnetic nanoparticles for applica	Ana Rita F. Pacheco	Oral (15 min=12+3)
Parallel Sessions Fr.1.b	6561	Optical harmonic Vernier effect: properties and applications	André Rodrigues Delgado Coelho	Invited (20 min=15+5)
9:45 - 11:20 (1:35 h)	6684	Optofluidic fibre sensor for the real-time measurement of refractive index	João Micael da Silva Leça	Oral (15 min=12+3)
Chair(s): Susana Silva	6657	Simultaneous measurement of displacement and temperature using balloon-like hybrid fiber sensor	João Pedro Fidalgo Santos	Oral (15 min=12+3)
Orlando Frazão	6712	Characterization of a D-shaped photonic crystal fiber with two silver-Al2O3 nanowire metamaterial layers	Amanda de Freitas Romeiro	Oral (15 min=12+3)
	6703	Optical fiber sensor based on balloon-like interferometer structure and 3D printer for displacement sensing	Victor Henrique R. Cardoso	Oral (15 min=12+3)
	6710	Evaluation of the orientation impact in thermal behavior of cylindrical Li-ion batteries in different cycling conditio	Lucca de Carvalho Matuck	Oral (15 min=12+3)
Parallel Sessions Fr.1.c	6694	Magneto-piezoresistance in magnetorheological elastomer for low range conductive feedback	Muhammad Kashfi Bin Shabdin	Invited (20 min=15+5)
9:45 - 11:20 (1:35 h)	6705	Investigation on the operation modes of optoelectronic oscillators based on resonant tunnelling diodes	Tiago Colaço S. da Franca Ferro	Oral (15 min=12+3)
Chair(s): Mohd M. Awang Kechik	6516	Optimizations of Si PIN Diode Phase-Shifter Combined with RC Equalizer Under Forward Biasing	Dror Malka	Oral (15 min=12+3)
Paulo Ribeiro	6174	Impact of Sm on microstructure and Faraday magneto-optical effects of transparent Y2O3 ceramics	Andrzej Kruk	Oral (15 min=12+3)
	6662	Optical Fiber Sensors for Monitoring Cement Paste Carbonation	Pedro Miguel Madeira da Silva	Oral (15 min=12+3)
	6830	Reducing the sunlight impacts in urban areas using asphalt mixtures with phase change materials: a review in Sco	Iran Gomes da Rocha Segundo	Oral (15 min=12+3)
Awards and Closing Ceremony		**11:25-12:30**		