

AOP 2019

Final Program (May 16, 2019)

| | # | Title | Author | Type |
|--|-----|--|----------------------------|-----------------------|
| FRIDAY, May 31 | | | | |
| 14:30 - 16:45 (2:15 h) | | | | |
| Plenary P1 | 178 | Polarisation-sensitive optical coherence tomography – what’s changed? | Sampson, David | Plenary (45 min=40+5) |
| Plenary P2 | 8 | Designing instrumentation: the astronomers perspective | Santos, Nuno | Plenary (45 min=40+5) |
| Plenary P3 | 253 | Axions: Search for Dark Matter using Ultra-Intense Lasers | Mendonça, José Tito | Plenary (45 min=40+5) |
| Chair(s): José Manuel Rebordão António Lobo | | | | |
| SATURDAY, June 1 | | | | |
| 8:55 - 9:40 (45 min) | | | | |
| Plenary P4 | 239 | Laser spectroscopy to meet challenges in medicine | Svanberg, Katarina | Plenary (45 min=40+5) |
| Chair(s): António Lobo | | | | |
| 9:45 - 10:45 (1 h) | | | | |
| Parallel Sessions Sa.1.a | 244 | Controlling light to the limit with the dispersion-scan technique: from single-cycle pulses to biomedical imaging | Crespo, Helder | Keynote (30 min=25+5) |
| Chair(s): Gonçalves Figueira | 26 | New ultrashort OPCPA petawatt class beamline for Vulcan laser facility | Galimberti, Marco | Oral (15 min=12+3) |
| | 151 | VEGA laser facility beamlines management for pump-probe experiments. | Mendez, Cruz | Oral (15 min=12+3) |
| 9:45 - 10:45 (1 h) | | | | |
| Parallel Sessions Sa.1.b | 68 | ESPRESSO Coudé-Train: ESO's VLT working as 16-metre telescope | Cabral, Alexandre | Invited (20 min=15+5) |
| Chair(s): Manuel Abreu | 121 | The PESIT-IIA Observatory for the Night Sky (PIONS): Assembly and ground calibration results | Suresh, Ambily | Oral (15 min=12+3) |
| | 154 | Solar coherence instrument based on digital micromirror devices, to measure spatial coherence of solar granules | Magalhães, Tiago | Oral (15 min=12+3) |
| | 10 | Ray tracing in stressed lenses in dynamical-optical systems | Hahn, Luzia | Oral (15 min=12+3) |
| 9:45 - 10:45 (1 h) | | | | |
| Parallel Sessions Sa.1.c | 33 | Stable and strong light-emitters based on colloidal quantum dots encapsulated in robust and processable matrices | Gaponik, Nikolai | Keynote (30 min=25+5) |
| Chair(s): Mikhail Vasilevskiy | 250 | Nanostructured yttrium aluminium composites doped with the rare earth elements: sol gel synthesis and up-conversion | Stepikhova, Margarita | Oral (15 min=12+3) |
| | 27 | Developing tunable optical analogues using nematic liquid crystals | Ferreira, Tiago | Oral (15 min=12+3) |
| 11:15-12:30 (1h15m) | | | | |
| Parallel Sessions Sa.2.a | 176 | Multimodal optical coherence tomography | Drexler, Wolfgang | Keynote (30 min=25+5) |
| Chair(s): António Lobo | 80 | Fast OCT image enhancement using deep learning for smart laser surgery | Bayhaqi, Yakub Aqib | Oral (15 min=12+3) |
| | 89 | Laser speckle rheology for evaluating mechanical properties of biomaterials: a pilot study | Ruiz-López, Javier | Oral (15 min=12+3) |
| | 28 | A simulation analysis for dimensioning of an amorphous silicon planar waveguide structure suitable to be used as a waveguide | Fantoni, Alessandro | Invited (20 min=15+5) |
| 11:15-12:30 (1h15m) | | | | |
| Parallel Sessions Sa.2.b | 181 | Lidar imagers for automated vehicles: an overview | Royo, Santiago | Keynote (30 min=25+5) |
| Chair(s): José A. Rodrigues | 217 | The LiDAR hop-on-hop-off route: visiting the LiDARs past, present, and future landscapes | Nunes-Pereira, Eduardo | Invited (20 min=17+3) |
| | 257 | Optical phased arrays for enabling solid-state LiDAR systems | Dahlem, Marcus | Invited (20 min=17+3) |
| 11:15-12:30 (1h15m) | | | | |
| Parallel Sessions Sa.2.c | 115 | Carbon-based nanomaterials in suspensions far beyond the nonlinear optical threshold | Eberle, Bernd | Keynote (30 min=25+5) |
| Chair(s): Nikolai Gaponik | 189 | Engineering of fluorescent biomaging tools based on quantum dot-encoded polyelectrolyte microcapsules and their applications | Nifontova, Galina | Oral (15 min 12+3) |
| | 49 | We play with chemistry to design colloidal semiconductor nanocrystals | Lesnyak, Vladimir | Invited (20 min=15+5) |
| | 203 | New collective modes in twisted bilayer graphene | Stauber, Tobias | Invited (20 min 15+5) |
| 13:55 - 14:40 (45 min) | | | | |
| Plenary P5 | 213 | Attosecond soft X-ray spectroscopy in condensed phase | Biegert, Jens | Plenary (45 min=40+5) |
| Chair(s): Gonçalves Figueira | | | | |
| 14:45-16:00 (1h15m) | | | | |
| Parallel Sessions Sa.3.a | 198 | Reliability of ridge waveguide distributed feedback lasers for communications applications: from device specification to fabrication | Cantu, Horacio | Invited (20 min=15+5) |
| Chair(s): Jorge Ojeda-Castaneda Fabian Hartmann | 137 | Quantum dots/azo-dyes hybrid structures for sensing | Annas, Kirill | Oral (15 min=12+3) |
| | 212 | Functionalizing glass by inducing local compositional changes with ultrafast lasers | Solis, Javier | Invited (20 min=15+5) |
| | 156 | Quantum dot particles as anisotropic emitters for luminescent solar concentrator | Zawacka, Natalia | Oral (15 min=12+3) |
| 14:45-16:00 (1h15m) | | | | |
| Parallel Sessions Sa.3.b | 174 | “Unipolar photonics”: cross-gap, self-oscillating light emission in GaN/AlN and InGaAs/AlAs RTDs at room temperature | Brown, Elliott | Keynote (30 min=25+5) |
| Chair(s): José M. Baptista José Figueiredo | 11 | Nanoscale vertical-emitting nanopillars for efficient sub-wavelength LEDs | Romeira, Bruno | Invited (20 min=15+5) |
| | 54 | GaN-based distributed feedback laser diodes for optical communications | Gwyn, Steffan | Oral (15 min=12+3) |
| | 36 | Spike-free pulse generation in semiconductor injection seeding laser | Grzeš, Pawel | Oral (15 min=12+3) |
| 14:45-16:00 (1h15m) | | | | |
| Parallel Sessions Sa.3.c | 2 | Nonlinear optical properties of a new inorganic-organic nanocomposite material highly dispersed with semiconductor nanocrystals | Tomita, Yasuo | Keynote (30 min=25+5) |
| Chair(s): Tobias Stauber | 133 | Nonlinear electrodynamic of two-dimensional crystals | Mikhailov, Sergey | Invited (20 min 15+5) |
| | 169 | Harmonic generation in 2D materials | Rodrigues, Manuel J. L. F. | Oral (15 min=12+3) |
| | 188 | Polariton-assisted emission of strongly coupled organic dye excitons in a tunable optical microcavity | Dovzhenko, Dmitriy | Oral (15 min=12+3) |
| Poster Sessions Sa.T | | | | |
| 16:00-17:00 (1h) | | | | |
| Chair(s): João Coelho Alexandre Cabral | 55 | The development of an optical design tool for atmospheric dispersion correction | Wehbe, Bachar | Poster |
| | 159 | A compact optical polarimeter for portable telescopes used for teaching astronomy | Topasna, Gregory | Poster |
| | 220 | Performance analysis of image motion compensation system for one meter class telescope | Vallapureddy, Reddy | Poster |
| | 102 | Image encryption system based on a nonlinear joint transform correlator for the simultaneous authentication of two images | Vilardy Ortiz, Juan | Poster |
| | 103 | Experimental optical encryption scheme for the double random phase encoding using a nonlinear joint transform correlator | Vilardy Ortiz, Juan | Poster |
| | 104 | Image authentication using a joint transform correlator-based encryption and decryption systems and the photonic neural network | Vilardy Ortiz, Juan | Poster |
| | 106 | Optical image encryption using a nonlinear joint transform correlator and the Collins diffraction transform | Herrera, Alvaro | Poster |
| | 107 | Uncertainty principle in the gyrator domain | Perez, Ronal | Poster |
| | 108 | Image processing operators based on the Gyrator transform: generalized shift, convolution and correlation | Perez, Ronal | Poster |
| | 109 | Optical image encryption system using several tilted planes | Vilardy Ortiz, Juan | Poster |
| | 110 | Mathematical modelling of the digital holography using the fractional Fourier transform | Jimenez, Carlos | Poster |
| | 114 | On how thick diffusers can contribute to the design of optical security systems | Carnicer, Artur | Poster |
| | 134 | Temperature dependence of the drying process in polymer solutions observed by dynamic speckle detection | Stoykova, Elena | Poster |
| | 153 | Evaluation of photometer stability for illuminance interlaboratory comparison | Genfil Ferreira, Antonio | Poster |
| | 162 | Estimation of the germination percentage of coffee seeds by means of dynamic speckle image processing | Benjumea, Eberto | Poster |
| | 163 | Image filtering using the discrete cosine transform and symmetric convolution over finite field | Vilardy Ortiz, Juan | Poster |
| | 164 | Image encryption based on the discrete sine transform over finite field | Vilardy Ortiz, Juan | Poster |
| | 12 | Control of population inversion and coherence generation in rubidium and cesium atoms | Afa, Iduabo John | Poster |
| | 25 | Solid-state harmonic generation near IR driving field | Hussain, Mukhtar | Poster |
| | 42 | Development of soft X-ray Ar+8 lasers excited by low-current capillary Z-pinch discharges | Kukhlevsky, Sergei | Poster |
| | 53 | Numerical modelling for a 3 μm OPCPA laser pumped at 1 μm | Alves, Joana | Poster |

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| | 77 | Experimental characterization of thermal lensing in a diode-pumped 10 Hz 100 mJ Yb:YAG amplifier | Hariton, Victor | Poster |
| | 85 | Ultrashort optical parametric amplifier and oscillator up to the near-infrared | Galletti, Mario | Poster |
| | 210 | Development of a compact and portable SHG FROG | Ribeiro, Ana | Poster |
| | 29 | Pump-and-probe dark plane illumination diagnostic for ultra-cold gas density imaging | Giampaoli, Ruggero | Poster |
| | 35 | Spectral dependence of aerosol light absorption over Camagüey, obtained from an integrating sphere spectral system | Mogo, Sandra | Poster |
| | 39 | A proposal for parametrical characterization of induced electric fields in materials | Martínez-Herrero, Rosario | Poster |
| | 56 | Paraxial propagation and kurtosis of fields generated by pseudo-Schell vortex sources | Martínez-Herrero, Rosario | Poster |
| | 123 | Development of thin films composed of plasmonic nanoparticles (Au, Ag) dispersed in a CuO oxide matrix for optical applications | Proença, Maria Manuela | Poster |
| | 1 | Basic holography for optometry | Costa, Manuel Filipe | Poster |
| | 16 | Assessment of the accommodative facility training with flippers between sessions | Pena-Verdeal, Hugo | Poster |
| | 81 | Simulating n-body systems under alternative theories of gravity using solvers from nonlocal optics | Ferreira, Tiago | Poster |
| | 86 | High-performance solver of the multidimensional generalized nonlinear Schrödinger equation with coupled fields | Ferreira, Tiago | Poster |
| | 93 | A hardware-independent solution for high-performance simulations of the Maxwell-Bloch system | Azevedo Silva, Nuno | Poster |
| | 94 | Exploring dissipative optical solitons controlling gain and loss in atomic systems | Azevedo Silva, Nuno | Poster |
| | 135 | Quantum fluid equations for atomic gases | Guerreiro, Ariel | Poster |
| | 136 | HiLight: a new simulation platform for advanced photonics | Guerreiro, Ariel | Poster |
| | 139 | A new approach to generating entangled light in integrated optics using ring resonators | Guerreiro, Ariel | Poster |
| | 140 | Rogue waves in nonlinear optical media | Guerreiro, Ariel | Poster |
| | 141 | Artificial intelligence assisted nonlinear Fourier transform | Guerreiro, Ariel | Poster |
| | 143 | How many neurons does it take to solve the nonlinear Schrödinger equation? | Guerreiro, Ariel | Poster |
| | 168 | FIR Tamm polaritons in a microcavity with an incorporated graphene sheet | Silva, Jorge | Poster |
| | 175 | Simulating particle influence on silicon nitride strip waveguide single-mode parameters | Baumgart, Marcus | Poster |
| | 208 | Synthesis and optical properties of Sc2O3 nanoparticles doped with lanthanide ions | Antoniak, Magda | Poster |
| | 218 | Monitoring of Mn ions incorporation into quantum dots by EPR and Luminescence spectroscopy | Galyametdinov, Yuiriy | Poster |
| | 30 | Weighted average of the Gouy phase shift for paraxial surface plasmon polaritons packets in lossy media | Martínez-Herrero, Rosario | Poster |
| | 75 | Analyzing the electrical parameters of photovoltaic devices based on PbS nanocrystals to optimize their architecture | Onishchuk, Dmitry | Poster |
| | 19 | Fabrication and characterization of edge-emitting heterojunction bipolar light-emitting transistors (HBLETs) | Tsai, Chia-Lung | Poster |
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| Parallel Sessions Sa.4.a 17:00-18:30 (1h30m) Chair(s): Pedro Andrés José A. Rodrigues | 216 | Computational imaging with structured light and single-pixel detection | Lancis, Jesus | Keynote (30 min=25+5) |
| | 177 | Lidar techniques for atmospheric aerosol remote sensing | Comerón, Adolfo | Keynote (30 min=25+5) |
| | 242 | Inspection of virtual images in an AR-HUD from "Innovative Car HMI" project | Duarte, Moisés | Oral (15 min=12+3) |
| | 37 | Up/down link data transmission for indoor navigation based on visible light communication | Louro, Paula | Oral (15 min=12+3) |
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| Parallel Sessions Sa.4.b 17:00-18:30 (1h30m) Chair(s): Bruno Romeira José Figueiredo | 248 | Mid-infrared photodetectors based on resonant tunneling diodes and interband cascade structures | Hartmann, Fabian | Invited (20 min=15+5) |
| | 31 | Bidirectional communication between infrastructures and vehicles through visible light | Vieira, Manuel Augusto | Oral (15 min=12+3) |
| | 4 | Resonant tunneling diode photodetectors: state of the art and future prospects | Pfenning, Andreas | Invited (20 min=15+5) |
| | 170 | Functional metamaterials for optical sensing of hydrogen | Guerreiro, Ariel | Invited (20 min=15+5) |
| | 222 | Plasma control by pattern recognition in laser induced breakdown spectroscopy | Ferreira, Miguel | Oral (15 min=12+3) |
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| Parallel Sessions Sa.4.c 17:00-18:30 (1h30m) Chair(s): Paulo Tavares M ^a . del Mar Pérez Gómez | 22 | Wavelength-tuning Fizeau interferometry with a laser diode | Ishii, Yukhiro | Keynote (30 min=25+5) |
| | 41 | White-light interferometer with tunable lens | Pavlicek, Pavel | Oral (15 min=12+3) |
| | 14 | Evanescent wave amplification applied to scattering of particles on surfaces | Kolenov, Dmytro | Oral (15 min=12+3) |
| | 34 | Hyperspectral quantitative phase imaging using lens-in-lens common-path interferometer | Machikhin, Alexander | Oral (15 min=12+3) |
| | 101 | Determination of the optical properties in transparent conductive electrodes based on an indium-tin oxide coating | Rodríguez-Aguila, Ana Belén | Oral (15 min=12+3) |
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| SUNDAY, June 2 | | | | |
| Plenary P16 8:55 - 9:40 (45 min) Chair(s): António Baptista | 245 | Light diagnostics and light treatments in the eye | Marcos, Susana | Plenary (45 min=40+5) |
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| Parallel Sessions Su.1.a 9:45 - 10:45 (1 h) Chair(s): Pedro Serra | 116 | Amblyopia treatment: what we know and what we don't know! | Barrett, Brendan | Keynote (30 min=25+5) |
| | 83 | Transcranial magnetic stimulation in adults with asymmetric visual acuity | Tuna, Ana Rita | Oral (15 min=12+3) |
| | 112 | Vision as a predictor of expertise in high demanding visual tasks | Baptista, António | Invited (20 min=15+5) |
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| Parallel Sessions Su.1.b 9:45 - 10:45 (1 h) Chair(s): Giulio Cerullo | 43 | Diode-pumped solid-state lasers at 1 µm for optical parametric pumping | João, Celso | Invited (20 min=15+5) |
| | 46 | Few-cycle, CEP stable, high power mid-infrared laser system | Pires, Hugo | Oral (15 min=12+3) |
| | 172 | Double trace autocorrelator for precise measurement of pulse front tilt in a high power laser system | Figueira, Gonçalo | Oral (15 min=12+3) |
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| Parallel Sessions Su.1.c 9:45 - 10:45 (1 h) Chair(s): Sergey Mikhailov | 179 | THz frequency combs in graphene field-effect transistors | Terças, Hugo | Keynote (30 min=25+5) |
| | 223 | Wavepacket diffraction on a metal film with a single slit covered by graphene | Bludov, Yuliy | Oral (15 min=12+3) |
| | 152 | Photoinduced increase of electron transfer efficiency of QDs based hybrid structures | Kolesova, Ekaterina | Oral (15 min=12+3) |
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| Parallel Sessions Su.2.a 11:15-12:30 (1h30m) Chair(s): Brendan Barret António Baptista | 129 | Ocular optical quality dynamics during accommodation in subjects with accommodative dysfunctions | Franco, Sandra | Invited (20 min=15+5) |
| | 160 | Short-review about the safety and effectiveness of implantable collamer lenses for the correction of refractive errors | Serra, Pedro | Invited (20 min=15+5) |
| | 128 | Evaluation of the optical properties of two different types of soft contact lenses: hydrogel and silicone-hydrogel | Ionescu, Ana Maria | Oral (15 min=12+3) |
| | 130 | Variations of the optical properties of two types of contact lenses with dehydration | Ionescu, Ana Maria | Oral (15 min=12+3) |
| | 127 | Epidemiology of vision problems in Europe: a Portuguese perspective | Teixeira, Eduardo | Invited (20 min=15+5) |
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| Parallel Sessions Su.2.b 11:15-12:30 (1h30m) Chair(s): Orlando Frazão Susana Silva | 249 | Structural health monitoring with fiber Bragg grating sensors: challenges on optical interrogators | Araújo, Francisco | Invited (20 min=15+5) |
| | 145 | Simultaneous measurement of refractive index and temperature using a double antiresonant hollow core fiber | Ferreira, Marta | Oral (15 min=12+3) |
| | 117 | Enhanced temperature sensing with Vernier effect on fiber probe based on multimode Fabry-Perot interferometer | Gomes, André | Oral (15 min=12+3) |
| | 73 | Fibre-integrated phase-change devices | Martins, Tiago J. | Oral (15 min=12+3) |
| | 47 | Use and validation of fiber optic gratings for planetary exploration: new challenges | López Heredero, Raquel | Oral (15 min=12+3) |
| | 15 | Unveiling the potential of fused polymer optical fibers: emergence of magnetic field sensitivity | Paixão, Tiago | Oral (15 min=12+3) |
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| Parallel Sessions Su.2.c 11:15-12:30 (1h30m) Chair(s): Helder M. Crespo Alessandro Fantoni | 200 | Fundamentals of neutron waveguides: a proposal for slow neutron beams confinement and applications | Calvo Padilla, Maria Luisa | Keynote (30 min=25+5) |
| | 91 | Fluids of Light in atomic systems: from superfluidity to quantum simulations | Azevedo Silva, Nuno | Oral (15 min=12+3) |
| | 166 | Unscrambling complex sample composition, variability and multi-scale interference in optical spectroscopy | Costa Martins, Rui | Oral (15 min=12+3) |
| | 144 | Analysis of Fizeau wedge with a non-air gap by plane wave expansion | Deneva, Margarita | Oral (15 min=12+3) |
| | 40 | Simulation analysis of a thin film semiconductor MMI 3 dB splitter operating in the visible range | Lourenço, Paulo | Oral (15 min=12+3) |
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| MONDAY, June 3 | | | | |

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| Plenary P17 8:55 - 9:40 (45 min) Chair(s): Paulo Fiadeiro | 194 Optical techniques for improved vision | Artal, Pablo | Plenary (45 min=40+5) |
| Parallel Sessions Mo.1.a 9:45 - 10:45 (1 h) Chair(s): Sandra Franco | 58 Modelling effect of time on visual acuity for vanishing and conventional optotypes | Fiadeiro, Paulo | Invited (20 min=15+5) |
| | 79 Limitation of tables indicating the relation between age and reading addition for presbyopia correction | Panke, Karola | Oral (15 min=12+3) |
| | 124 Influence of pupil function in pseudophakia | Fonseca, Elsa | Oral (15 min=12+3) |
| | 88 Smartphone viewing distance during active or passive tasks and relation to heterophoria | Panke, Karola | Oral (15 min=12+3) |
| Parallel Sessions Mo.1.b 9:45 - 10:45 (1 h) Chair(s): Jürgen Jahns | 17 Seeing around corners: using the light field to extract information from scattered light | Leger, James | Keynote (30 min=25+5) |
| | 7 Three-dimensional surface reconstruction for evaluation of wrinkling on textile fabrics | de Oliveira Mendes, António | Oral (15 min=12+3) |
| | 9 Optics-computer vision combination for object detection and marking | Handelman, Amir | Oral (15 min=12+3) |
| Parallel Sessions Mo.1.c 9:45 - 10:55 (1:10 h) Chair(s): Igor Nabiev | 105 Influence of morphology on the exciton fine structure of single colloidal nanoplatelets | Goupalov, Serguei | Invited (20 min=15+5) |
| | 119 Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical micro | Stanciu, Stefan | Oral (15 min=12+3) |
| | 51 Mueller matrix measurements of self-assembled gold nanoparticles in chiral structure | Battie, Yann | Invited (20 min=15+5) |
| | 62 Electric-field effect on the optical activity of helical semiconductor nanoribbons | Tatiana Perezziabova | Oral (15 min=12+3) |
| Parallel Sessions Mo.2.a 11:15-12:30 (1h15m) Chair(s): Paulo Tavares | 207 Scattering killed the (light) sheet... or did it? | Ripoll, Jorge | Keynote (30 min=25+5) |
| | 125 Spatially variant retarders used as geometric phase diffractive elements | Moreno, Ignacio | Invited (20 min=15+5) |
| | 52 Meta-surface diffractive optics based on the resonance-domain diffraction phenomena | Golub, Michael | Oral (15 min=12+3) |
| | 113 On the behavior of vector light needles using modulation functions with topological charge | Carnicer, Artur | Oral (15 min=12+3) |
| Parallel Sessions Mo.2.b 11:15-12:30 (1h15m) Chair(s): António Lobo | 161 Optical fiber tools for single cell trapping and manipulation | Rodrigues Ribeiro, Ana Rita | Invited (20 min=15+5) |
| | 132 Development of drug-loaded magneto-sensitive liposomes investigated by fluorescence techniques | Cardoso, Beatriz | Oral (15 min=12+3) |
| | 235 Cross-validation of EEG data for Cognitive Workload Evaluation using an Eye-tracker in Imaging System Tasks | Mendonca, Pedro | Oral (15 min=12+3) |
| | 225 Holographic optical tweezers at the tip of a multimode fibre | Leite, Ivo | Oral (15 min=12+3) |
| | 171 Photorealistic ray-traced visualization of the compound insect eyes | Lee, Hocheol | Oral (15 min=12+3) |
| Parallel Sessions Mo.2.c 11:15-12:35 (1h20m) Chair(s): Yann Battie | 186 Nanophotonic tools based on the conjugates of nanoparticles with the single-domain antibodies for multi-photon | Nabiev, Igor | Invited (20 min=15+5) |
| | 87 Towards optically-detected high-speed magnetic resonance spectrum measurements | Mignon, Charles | Oral (15 min=12+3) |
| | 187 The crucial role of surface ligands in photostability of colloidal quantum dots | Zvaigzne, Mariya | Oral (15 min=12+3) |
| | 184 Collective modes of self-assembled supercluster metamaterials: towards label-free sensing | Rakovich, Aliaksandra | Oral (15 min=12+3) |
| | 146 Studying the optical properties of carbon dots depending on the solvent type | Stepanidenko, Evgeniia | Oral (15 min=12+3) |
| Plenary P18 13:55 - 14:40 (45 min) Chair(s): Mikhail Vasilevskiy | 13 Nanoplasmonics for energy conversion: generation of hot electrons and of acoustic surface waves | Meier, Stefan | Plenary (45 min=40+5) |
| Parallel Sessions Mo.3.a 14:45-16:00 (1h15m) Chair(s): Stefan Maier | 23 2D Materials for Polaritonics | Peres, Nuno | Invited (20 min=17+3) |
| | 180 Tuning the properties of surface magnon-polaritons on a ferromagnet using a graphene sheet | Costa, António | Oral (15 min=12+3) |
| | 44 Manipulations of light emission through defect engineering in 2D materials | Woon, Wei-Yen | Invited (20 min=17+3) |
| | 82 Enhancing nanoplasmonic sensing with metallic nanowires: from D-type to suspended core fibres | Santos, Diego | Oral (15 min=12+3) |
| Parallel Sessions Mo.3.b 14:45-16:00 (1h15m) Chair(s): Rogério Nogueira | 240 Laser Spectroscopy Applied to Environmental, Ecological, Agricultural and Food Safety Research | Svanberg, Sune | Keynote (30 min=25+5) |
| | 48 Effect of hepatic vein on gold-nanoparticle-mediated-hyperthermia in liver cancer | Jalali, Mandana | Invited (20 min=17+3) |
| | 59 Core-shell magnetic-plasmonic nanoparticles enclosed in biocompatible hydrogels for multimodal cancer therapy | Veloso, Sérgio | Oral (15 min=12+3) |
| | 126 Development of magnetic/plasmonic nickel ferrite/gold nanoparticles covered with lipid bilayers for applications | Rodrigues, Rita | Oral (15 min=12+3) |
| Parallel Sessions Mo.3.c 14:45-16:00 (1h15m) Chair(s): Manuel Abreu | 224 Optical fibres in astronomical spectrographs | Avila, Gerardo | Keynote (30 min=25+5) |
| | 228 Study on creating an aspheric primary mirror of a large telescope using spherical mirror segments | Annu, Jacobo | Oral (15 min=12+3) |
| | 241 Ultra-low noise optoelectronic sensor in white light source for CCD calibrations instrument | Alves, David | Oral (15 min=12+3) |
| | 65 Atmospheric dispersion correction: model requirements and impact on radial velocity measurements | Wehbe, Bachar | Oral (15 min=12+3) |
| Poster Sessions Mo.T 16:00-17:00 (1h) Chair(s): João Coelho Alexandre Cabral | 74 Ultra-fast DNA sequence alignment utilizing optical 1D Fourier transform | Sadeghzadeh Bahnamiri, Hoda | Poster |
| | 76 Optical pattern generator for efficient bio-data encoding in a photonic sequence alignment architecture | Akbari Rohn-Abadi, Saeedeh | Poster |
| | 138 Fiber optic sensor for monitoring tangential and vertical forces for wheelchair application | Tavares, Cátia | Poster |
| | 147 A Hermite-based approach to bone segmentation in CT images | Vargas-Quintero, Lorena | Poster |
| | 149 An image fusion scheme based on the hermite transform for nuclear medicine and magnetic resonance analysis | Barba Jimenez, Leiner | Poster |
| | 157 Magnetic circular dichroism spectroscopy of QDs/SPIOs nanosystems | Orlova, Anna | Poster |
| | 165 Raman spectroscopy and diffuse reflectance of biomass soot samples | Peña-Gomar, Mary Carmen | Poster |
| | 197 Assessment of light's dazzling effect on the EEG signal of subjects performing tasks that require concentration | Santos, João | Poster |
| | 230 Designing fibre probes for holographic microendoscopy | Silveira, Beatriz | Poster |
| | 236 Electrophoretic light scattering for study mixed saliva studies | Savchenko, Ekaterina | Poster |
| | 238 Hardware/software co-design for structural analysis of biosubstrate | Savchenko, Ekaterina | Poster |
| | 24 Visual search in three-dimensional non-medical images: visual-motor performance of radiologists | Pladere, Tatjana | Poster |
| | 16 Assessment of the accommodative facility training with flippers between sessions | Calo-Santiago, Rosa | Poster |
| | 18 Study of the ocular biometric changes and stray light on diabetic patients | Teixeira dos Reis, Clarisse | Poster |
| | 57 The impact of keratoconus apex's localization on eye aberrations | Liduma, Sanita | Poster |
| | 66 Jacobi-Fourier polynomials phase masks for high resolution imaging of the retina | Olvera-Angeles, Miguel | Poster |
| | 63 Experimental performance of Jacobi-Fourier polynomials phase masks for wavefront coding | Gonzalez-Amador, Enrique | Poster |
| | 70 Improving slit lamp managing skills with low cost spy wifi cameras | Arines, Justo | Poster |
| | 90 Using FVSQ to identify functional indicators of visual problems among older people residing in nursing homes: a | Vázquez Sánchez, Covadonga | Poster |
| | 95 Analysis of the relationship of the central tear meniscus area with the tear film symptomatology and stability | García-Resua, Carlos | Poster |
| | 96 Meibomian gland loss area and its relationship with age and ocular surface disease index | García-Queiruga, Jacobo | Poster |
| | 97 Relationship between visual therapy vectograms and accommodative parameters in young healthy subjects | Pena-Verdeal, Hugo | Poster |
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| | 122 Compensative effect between corneal and internal ocular aberrations during a near vision task | Jéssica, Gomes | Poster |
| | 131 The influence of coloured lighting on visual acuity and visual contrast sensitivity | Gil, Marta | Poster |
| | 148 Astigmatism correction in direct ophthalmoscopy | Arines, Justo | Poster |
| | 150 Prevalence of accommodative and binocular vision dysfunctions in a Portuguese clinical population | Franco, Sandra | Poster |
| | 196 In line Fabry-Perot cavities manufactured by electric arc fusion of NIR-laser micro-drilled optical fiber flat tips | Nespereira, Marta | Poster |

