

Wednesday 3rd

08:45	Introduction & Welcome	
09:00	All optical manipulation of metasurfaces for biophotonics applications Andrea Di Falco - chair: Nadège Courjal	
09:45	Liquid Crystal Elastomers: the new frontiers of light-driven actuators? Camillia Parmeggiani - chair: Kantz Rabenorosoa	
10:30	Coffee break	
Session	Light control for trapping and sensing chair: Thierry Grosjean co-chair: Yasuhiro Mizutani	Micro-Opto-Electro-Mechanical Systems (MOEMS) chair: Nicolas Passilly co-chair: Wei-Chih Wang
10:50	Control of Electric and Magnetic Nanolight Mathieu Mivelle (Invited)	MOEMS-based instruments for astronomy and space applications: MIRA and the BATMAN family Frédéric Zamkotsian (Invited)
11:20	Optomagnetic field in nonmagnetic plasmonic nanostructures Vage Karakhanyan, Clément Eustache, Yannick Lefier, Thierry Grosjean	Broadband MEMS Shutter Based Variable Optical Attenuator Anton Lagosh, Benedikt Guldmann, Gergely Huszka, Hamed Sattari, Berit Ahlers, Philippe Giacardi, Grégoire Kerr, Peyman Rahnama, Takeshi Nishizawa, Niels Quack
11:40	Scanning 2D Surface Profilometry by using Spin-Hall Effect of Light Mizutani Yasuhiro, Li Zhehan, Yoshiyasu Tadokoro, Tsutomu Uenohara, Yasuhiro Takaya	Investigation of tunable fishnet metamaterials for optimal phase shift effect Wei-Chih Wang, Chileung Tsui, Chia-Tso Mo, Ting-Chun Kuo
12:00	Laser Actuated Microgripper for Micro-manipulation Applications Belal Ahmad, Hugo Chambon, Pierre Tissier, Michaël Gauthier, Guillaume J. Laurent, Aude Bolopion	Characterization of Mean Absorbance of an Anisotropic Turbid Media Yu-Lung Lo, Chieh-Chen Tsai, Ching-Min Chang
12:20	Light-induced thermocapillary manipulation Franco Piñan Basualdo, Pierre Lambert, Aude Bolopion, Michaël Gauthier	A novel PZT MEMS fiber scanning microscope Wei-Chih Wang, Kuang-Chen Peng, Yi-Feng Hsu, Wen-Jong Wu, Sudarshan Kalel

12:40	Networking and Lunch	
14:00	Advances in Volumetric 3D Printing Christophe Moser - chair: Antoine Barbot	
14:45	Metrology of terahertz fields in integrated photonics Iléna Cristina Benea-Chelmus - chair: Antoine Barbot	
15:30	Coffee break	
15:50	Flash presentation of the posters (see details on the last page)	
Session	Optical sensing and metrology chair: Rainer Tutsch co-chair: Guillaume Laurent	Fiber-based optical sensors chair: Nadège Courjal co-chair: Sébastien Claudot
16:30	Optical Microresonators for Gas Sensing in Dairy Farms Yves Alain Peter (invited)	Plasmonic Optical Fibers For Biomarkers Detection: An Overview Loyez Médéric (Invited)
17:00	Interferometric measurement of the absolute topography of full spheres , a discussion of the main error sources Arnold Nicolaus, Eva Kuhn	Implementation of a Optical Fiber Sensor to Measure Temperature in an Optical Trap Karen Reyes, Carmen E. Domínguez-Flores, Juan A. Rayas, David Monzón-Hernández, Raúl R. Cordero, Amalia Martínez-Garcí
17:20	Introduction of a new tool for characterizing optical 2D surface profilers - Rainer Tutsch, Ziyang Jiao, Gaoliang Dai, Benedikt Seeger, Thomas Weimann	Expanded Beam Connectors for Single Mode Optical Fiber Sensor Applications in Aerospace - Sébastien Claudot, Monique Thual, Xavier Insou, Lionel Quete
17:40	Novel sensor principle for optical distance measurement based on the combination of laser triangulation and multi-wavelength interferometry Michael Krauhhausen, Roland Priem	Multimode optical fiber sensor based on Fresnel reflection for refractive index measurement Antoine Brientin, Dominique Leduc, Virginie Gaillard, Marion Girard, Cyril Lupi
18:00	Investigation of Whole-Field Curvature Measurement Accuracy of CGS Technique Wei-Chung Wang	Bloch surface waves on a fiber tip Clement Eustache, Aude L. Lereu, Roland Salut, Antonin Moreau, Miguel Angel Suarez, Julien Lumeau, Thierry Grosjean, Emiliano Descrovi

Thursday 4th

08:30	Photonic computing for massively parallel AI Laurent Daudet - chair: Laurent Larter	
09:15	Super resolution photo-acoustic imaging Emmanuel Bossy - chair: Laurent Larter	
10:00	Coffee break	
Session	Imaging & Reconstruction Techniques chair: Sounkalo Dembélé co-chair: Wei-Chih Wang	Free space optics for communication and monitoring in complex systems chair: Frédéric Lamarque co-chair: Vinicius N. H. Silva
10:20	N-D Reconstruction for Cultural Heritage Accessibility: Multimodal and 3D Digitization of the Bayeux Tapestry Yvain Quéau (Invited), Matthieu Pizenberg, Abderrahim Elmoataz	Compact optical tracking modules for FSO mobile communications Bruno Fracasso (Invited), Jean-Baptiste Lamour, Muneeb Ullah Khan, Saly Malak, Hani Al Hajjar, Erwan Dupont, Christine Prelle, Frederic Lamarque
10:50	Multiscale nanoGPS tags for microscope calibration and relocalization Olivier Acher	Deep Learning Ghost Imaging Using Parallel Convolutional Neural Networks for Blur Correction by PSF Shoma Kataoka, Mizutani Yasuhiro, Uenohara Tsutomu, Takaya Yasuhiro
11:10	Tomographic Diffraction Microscopy: 3D marker-less characterization of sample in both transmission and reflection regimes Nicolas Verrier, Marion Manzoni, Matthieu Debailleul, Xingyu Wu, Arnaud Spangenberg, Olivier Haeberlé (session invited)	Optical Triangulation for Free-Space Optics Beam Tracking using Artificial Neural Networks Felipe Hugo B. Bittar, Márcio Alexandre D. Garrido, Janaína R. do Nascimento, Alexandre B. dos Santos, Andrés Pablo L. Barbero, Vinicius N. H. Silva (session invited)
11:30	Encoded pseudo-periodic patterns for robust visual pose determination at the microscale Antoine André, Patrick Sandoz, Maxime Jacquot, Guillaume Laurent	Optical wireless body area network for baby monitoring Stéphanie Sahuguède, Amina Boussebt, Amel Chehbani, Pierre Combeau, Anne Vergonjanne (session invited)
11:50	Pollen 3D: An Application of 3D Reconstruction for the Scanning Electron Microscope Mayra Yucely BEB, Akkiz Bekel, Sounkalo Dembele, Patrick Rougeot, Isabelle Jouffroy-Bapicot (session invited)	Calibration of an optical power supply and remote sensing method for rotating machines temperature monitoring Muneeb Ullah Khan, Jeremy Terrien, racha Benarrait, Hani Al Hajjar, Frederic Lamarque (session invited)

12:10	Networking and Lunch	
13:30	Nonlinear and Electro-Optic Metal-Oxides for Active Photonic Devices Rachel Grange - chair: Niels Quack	
14:15	Lithium Niobate Nanophotonics: Giving a second youth to an old material Maria-Pilar Bernal - chair: Niels Quack	
15:00	Coffee Break	
15:15	Poster session	
Session	Emerging photonic concepts chair: Niels Quack co-chair: Cédric Clévy	Holography and Free Space Optics chair: Frédéric Zamkotsian co-chair: Yukitoshi Otani
15:45	The Thrilling Opportunities fo Plasmonics in Optical Communications Claudia Hössbacher (Invited)	Spatial optical mode demultiplexing as a tool for optimal transverse distance estimation Pauline Boucher (Invited)
16:15	Scalable Nanowatt Programmable Photonics Sangyo Han (Invited), Kyoungsik Yu	In-system optimization of a computer-generated hologram for holographic femtosecond laser processing Honghao Zhang, Yoshio Hayasaki
16:45	Dynamic Photo-Robotic Nanopositioning for Hybrid Photonic Circuits Based-on Self-Sensing tuning Fork Morris Mwangi, Mokrane Bouadaoud, Jean Byiringiro, Philippe Lutz, Nadège Courjal, Cédric Clévy	Stokes imaging polarimeter for green technology Yukitoshi Otani, Nobuaki Endo, Shuhei Shibata, Nathan Hagen
17:05	Improving Optothermal Activation Effect of Micro Bilayer Cantilever with FIB Milling Gap Yuning Lei, Cédric Clévy, J-Y Rauch, Philippe Lutz	Self-Autofocusing using Deep Learning for Digital Holography and Applied to Position Measurement Stéphane Cuenat, Antoine N. André, Louis Andreoli, Patrick Sandoz, Raphaël Couturier, Guillaume J. Laurent, Maxime Jacquot
17:25	All in one: Tunable prism and lens in a single element Pascal M Weber, Hitesh G B Gowda, Ulrike Wallrabe, Matthias C Wapler	

Friday 5th

09:00	Precision metrology using optical weak measurements Nirmalaya Gosh - chair: Indrani Bhattacharya	
09:45	Coffee break	
Session	Optical systems for biomedical applications chair: Franck Chollet co-chair: Cuiri Sun	Diffractive optics and advanced imaging chair: Indrani Bhattacharya co-chair: Guillaume Laurent
10:00	MEMS tunable VCSEL for OCT imaging Hiroshi Toshiyoshi (Invited)	Polarization-masked Walsh filters for vector-wave imagery Indrani Bhattacharya (Invited)
10:30	A proposed SLP system to collect additional point cloud data with dual optical channels Donald Ngo Fung Lai, Henry Gze Hin Chow, Ka Chun Lau, Lap Wing Cheung, Flora Fung Leung, Philip Wai Yan Chiu, Yeung Yam	Diffraction in Metasurfaces with Opposite Curvatures of Unit Cells Arpita Haldar, Vijaya Ramarao (session invited)
10:50	In vivo vascular intima-media thickness and strain characterization based on intravascular optical coherence tomography images Cuiri Sun	Photothermal generation of microbubbles on graphene oxide for large scale assembly of nanoparticles and lensing applications Sudhir Cherukulappurath, Jostine Joby (session invited)
11:10	Interactive Laser-actuated micro-robots for Experimental Biology Edison Gerena, Stéphane Régnier, Sinan Haliyo	Selective tuning of vortex beam lasing of bound states in the continuum in photonic crystal slab Sughra Mohamed, Jie Wang, Heikki Rekola, Benjamin Asamoah, Janne Heikkilä, Lei Wang, Tommi Hakala (session invited)
11:30	Closing session, Award ceremony, Farewell	
12:00	Networking and Lunch	
14:00	Visits: FEMTO-ST, MIMENTO clean room, Photonic companies	

● Gagnepain Amphitheater

■ Room 007-008

◆ Hall

Flash presentation of the posters

Wednesday 3rd

15:50

Sylwester Bargiel, Fernando Eleazar Garcia Ramirez, Przemyslaw Struk, Jean-Loup Skora, Quentin Tanguy, Olivier Gaiffe, Philippe Lutz, Cote Jean-Marc, Huikai Xie, Christophe Gorecki
3-D micro-assembly approach to fabrication of a scanning MOEMS-based endoscopic probe for Optical Coherence Tomography imaging.

15:53

Olivier Acher
Characterization of microscopy stages using nanoGPS encoded plates: reproducibility, accuracy, and transient vibrations

15:56

Manuel I. Peña-Cruz, Leopoldo Martínez-Manuel, Camilo A. Arancibia-Bulnes, Heidi Isabel Villafán-Vidales, Alejandro Ayala-Cortés
Coupling a high flux solar simulator to a hydrothermal reactor: an optical analysis.

15:59

Wei-Chih Wang, Karthickraj Muthuramalingam
Electron generated NIR radiation in D shape Fiber

16:02

Wei-Chih Wang, Benjamin Estroff, Vinayak Ghorpade
Characterization of a Novel Fabry-Perot Fourier Transform Spectrometer

16:05

Wei-Chih Wang, Prabir Garu
Gradient Log-spiral antenna for Ultra-wideband Electromagnetic Wave Absorption: A Novel Approach

16:08

Martin Khouri, Florent Behague, Antoine Coste, Adrien Godet, Miguel Suarez, Paul Nobre, Gwenaël Gaborit, Lionel Duvillaret, Nadège Courjal
Lithium niobate polarization-state-modulator for electromagnetic sensing

16:11

Jean-Loup Skora, Olivier Gaiffe, Sylwester Bargiel, Jean-Marc Cote, Laurent Tarvernier, Michel De Labachelerie, Nicolas Passilly
Micro-Optical Components Manufactured in Glass by Femtosecond Laser Irradiation Followed by Chemical Etching

16:14

Wei-Chih Wang, Karthickraj Muthuramalingam, Yen-Chieh Huang
RIB Waveguide based Free-electron Laser

16:17

Nahashon Osinde, Nicolas Andreff
Quantitative and experimental assessment of optical coherence tomography volumes obtained using non-raster trajectories