



International Conference on Optical MEMS and Nanophotonics

July 28th - August 1st

PROGRAM SCHEDULE

	MONDAY 29 July	TUESDAY 30 July	WEDNESDAY 31 July	THURSDAY 1 August
8:00	Registration			
8:30	Opening ceremony			
9:00	JESÚS M. DE LA FUENTE - Nanoactuators for therapy and diagnosis	SARA ABALDE-CELA - Optofluidic devices for disease monitoring: playing pinball with cells and plasmonics	YOGENDRA KUMAR MISHRA - Tetrapods based Smart Materials for Advanced Technologies	STEFAN SINZINGER - Micro - and Nanooptics - enabler for applications from advanced imaging to next generation electronics
	Session 1: Design and optimization	Session 4: Nano-bio-photonics	Session 7: MOEMS shutters	Session 10: Imaging and Display
9:45	ALEXANDRA BOLTASSEVA - Tailorable Materials for Dynamic Photonics: From Metasurfaces to New Physical Phenomena	ARDA DENIZ YALCINKAYA - Metamaterial Microdevices for Biomedical sensing and Imaging Applications	DAVID DICKENSHEETS - Reflecting on MEMS Active Optics	DMITRY TABAKAEV - Compact high-energy nanosecond laser and multiplexing system
10:15	SIMON ANS - Nanostructured blazed gratings for broadband high efficiency spectro-imagers by topology optimization	HARUN HANO - Raman Spectroscopy Detects Biochemical Signatures in Non-Small Cell Lung Cancer	XINYU DING - An Improved Power-efficiency Microshutter Array with Thermal Isolation for Lighting Control	ZHIHAN XU - High-quality object reconstruction using correspondence imaging through dynamic scattering media
10:30	ANUP SHRIVASTAVA - Ultra-Thin TMDC Transport Layers for Perovskite Solar Cell Design	HUGO E. HERNÁNDEZ-FIGUEROA - Plasmonic nanoantennas for biosensing and monitoring of cell activity	ROLAND DONATIELLO - Recent Progress in Clear View Improvement through MEMS Smart Glasses	MARYAM ABEDI - Degenerate Frequencies Create Sensing Patterns for Single-Pixel Imaging
10:45	WEI ZHANG - The design and fabrication of terahertz metamaterials device based on microfluidics	ENEKO LOPEZ - Surface-Enhanced Raman Spectroscopy for Early Detection of Alzheimer's Disease	BASMA ELSAKA - Casimir Forces leading to 3D self-assembled paired metallic microshutters	HYO EUN JEONG - Low-Powered, Full-Color Reflective Display based on Electrochromic Resonator
11:00	Coffee	Coffee	Coffee	Coffee
	Session 2: Resonators on MOEMS	Session 5: MOEMS scanners I	Session 8: Micro-optics	Session 11: 3D-printed MOEMS
11:30	KENTARO IWAMI - Dielectric metasurface for sensing and imaging	NEELAM KAUSHIK - AI-Enhanced Portable Scanning Slit Device: A New Frontier in Ocular Disease Diagnosis	MATTHIAS WAPLER - Piezo-based active optical elements for microscopy	SIVAN TRAJTENBERG-MILLS - Leveraging conventional CMOS technology for metal optics nanophotonics
12:00	JASMIN SPETTEL - Optical Ring Resonators in Sputtered Aluminum Nitride on Insulator for Integrated Photonic MEMS	SYLWESTER BARGIEL - Towards all-Silicon Micro-Mirror Array for space applications	RALF BAUER - Exploration of 3D-printed lenses in a confocal MEMS microscope concept	YUKI MATSUOKA - Design of focus-tunable freeform microlens printed on kirigami MEMS actuator
12:15	MARC-ANTOINE BIANKI - Inkjet printing of polymeric optical resonators for multi-gas sensing	TENG PAN - Low Crosstalk Electrothermal Micromirrors For High-speed Resonant Scanning	YOUNG-GIL CHA - Ultrathin Microlens and Microprism Array Camera for Hemispherical Imaging and Detection	FLORIAN LUX - Monolithically 3D nano-printed MEMS lens scanner for rapid focus control
12:30	TIAGO NEVES DE MELLO - Development of Graphene Resonant Sensor with PIN Photodiode for On-Chip Mass Measurement	HENGZHANG YANG - A Robust Electrothermal Micromirror Based on Photosensitive Polyimide (PSPI) - Al Bimorphs	JAE-MYEONG KWON - Ellipsoidal Microlens Array Camera with Offset Apertures for Large-angle Imaging	KUTER ERDIL - A 3D-Printed Magnetic Focus Actuator for Laser Scanning Capsule Endoscopy
12:45	RÉGIS GUERTIN - Polymer-functionalized on-chip Fabry-Perot interferometer for CO2 and CH4 sensing	TOMOYA TSUTSUI - Fabrication and characterization of VO2 kirigami electrothermal MEMS actuator	OLAV SOLGAARD - Tunable Directional Couplers for High Contrast Optical Meshes	AYBÜKE ÇALIKOĞLU - 3D nano-printed bistable electromagnetic microlens actuator for reconfigurable endomicroscopes
13:00	Lunch	Lunch	Lunch	Closing
14:30	Poster 1	Poster 2	Poster 3	Lunch (13:30)
	Session 3: Nanophotonics I	Session 6: MOEMS scanners II	Session 9: Nanophotonics II	End Thursday (15:00)
15:30	VLADIMIR M. SHALAEV - Extreme Space-Time Optics	HAKAN ÜREY - AR displays and diagnostics devices enabled by micro-optics and MEMS	JOST ADAM - Two-dimensional materials, heterostructures, and perovskites for photonics - a computational approach	
16:00	SALVADOR POVEDA-HOSPITAL - PIN-PMN-PT electro-optic phase modulator	ÇAĞLAR ATAMAN - Potential and limitations of retrofitting commercial microscopes with refractive adaptive optics	DI ZHOU - A 300mm silicon nitride photonic platform for ultra low loss in the visible spectrum	
16:15	LE DAI - Active tunable metalens based on "rolling shutter" MEMS	HUA WANG - Design and characterization of low dynamic deformation electrostatic micromirrors	IGAL BRENER - Nonlinear semiconductor metasurfaces: from entangled photon generation to Terahertz applications	
16:30	DAN MAROM - Multi-Core Fiber Tip Optical Excitation/Collection of NV-diamond Quantum Magnetic Resonance Sensor	JUNHUI WU - MEMS Rotary Transmissive Grating Enabling Ultra-compact Near-Infrared Laser Scanner	JIN WANG - Silicon Photonic Switchable Optical Delay Line Featuring Low Loss and Low Power Consumption	
16:45	Coffee	PARVIZ ZOLFAGHARI - Non-Resonant and Resonant 2D Quasi-Static PZT MEMS Scanners for LiDAR Applications	Coffee	
17:15	CÉDRIC LEMIEUX-LEDUC - Waveguide-coupled GeSn membranes for mid-infrared silicon photonics	Coffee (17:00)	ZEFENG XU - Lithium Niobate Ferroelectric Non-volatile Switch	
17:30	JI-EUN YEO - Programmable Plasmonic-Nanopixels for High-Density Chromatic Information Encryption	End Tuesday	WEI CHENG - Experimentally Demonstrating a Programmable and Multi-Function Integrated Optical Filter Based on a CROW and Double Injection Configuration	
17:45	IVAN ALDAYA - Multi-objective optimization of SOI-based Mach-Zehnder modulators employing deep neural networks and a non-dominant genetic algorithm		JAHEYOUN (JAY) KIM - Achieving structural coloring with low-index polymer meta-pixels by multipole-based design	
18:00	End Monday		End Wednesday	

- Plenary speaker
- Invited speaker