



Sustainable Photonics Conference

July 15-17, 2026 🏯 Hangzhou, China

Conference Program



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Conference Committee

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Beihang University, China



Adrian Podoleanu

University of Kent, United Kingdom

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Hangzhou International
Innovation Institute, Beihang
University, China

Invited Talks



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Light Publishing Group,
China



Trevon Badloe

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Guangyao Cheng

The Chinese University of
Hong Kong, Hong Kong,
China



Qiannan Cui

Southeast University, China



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Sichao Du

Hangzhou City University,
China



Yang Du

Hangzhou Institute for
Advanced Study, University
of Chinese Academy of
Sciences, China



Yan Feng

Hangzhou Institute for
Advanced Study, University
of Chinese Academy of
Sciences, China



Monica Focsan

Babes-Bolyai University,
Romania



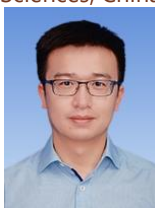
An He

Soochow University, China



Bin He

National University of
Singapore, Singapore



Wenbin He

Shanghai Institute of Optics
and Fine Mechanics, CAS,
China



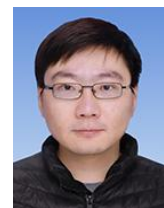
Yu He

Shanghai Jiao Tong
University, China



Dongmei Huang

The Hong Kong Polytechnic
University, Hong Kong,
China



Jiapeng Huang

Hangzhou Institute of Optics
and Fine Mechanics, China

Invited Talks



Ling Huang

Imperial College London,
United Kingdom



Tianye Huang

China University of
Geosciences (Wuhan), China



Yujie Ke

Lingnan University, Hong
Kong, China



Lingjie Kong

Tsinghua University, China



Chit Siong Aaron LAU

Quantum Innovation Centre,
A*STAR, Singapore



Feng Li

Xi'an Jiaotong University,
China



Hao Li

A*STAR SIMTech, Singapore



Huizi Li

Shanghai Institute of
Microsystem and
Information Technology,
CAS, China



Jianqing Li

Macau University of Science
and Technology, Macau,
China



Jin Li

Beihang University, China



Jingchi Li

Shanghai Jiao Tong
University, China



Ziyuan Li

Beijing Institute of
Technology, China



Huanhuan Liu

Shenzhen Institutes of
Advanced Technology, CAS,
China



Jingmin Liu

Hebei University, China



Dongxu Lu

Westlake University, China



**Khairul Nizam Abdul
Maulud**

Universiti Kebangsaan
Malaysia, Malaysia

Invited Talks



Jinyu Mo

POET Technologies, Canada



Kyunghwan Oh

Nazarbayev University,
Kazakhstan; Yonsei
University, South Korea



Jifang Qiu

Beijing University of Posts
and Telecommunications,
China



Yuxuan Ren

Fudan University, China



Mateusz Smietana

Warsaw University of
Technology, Poland



Dehui Sun

University of Jinan, China



Jiawei Sun

Suzhou Institute of
Biomedical Engineering and
Technology, CAS, China



Natsupa Taengnoi

Kasetsart University,
Thailand



Chao Wang

University of Kent, United
Kingdom



Hongtao Wang

Beijing Institute of
Technology, China



Xiaofei Wang

Beihang University, China



Zinan Wang

University of Electronic
Science and Technology of
China, China



Shiyu Wei

Hefei University of
Technology, China



Liaoyong Wen

Westlake University, China



Jiachen Wu

Zhejiang University, China



Kan Wu

Shanghai Jiao Tong
University, China



Kerong Wu

The First Affiliated Hospital
of Ningbo University, China



Jingya Xie

University of Shanghai for
Science and Technology,
China



Ping Xue

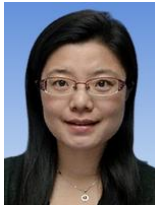
Tsinghua University, China



Yi Xu

Guangdong University of
Technology, China

Invited Talks



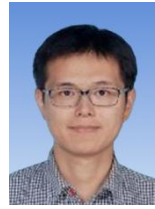
Hao Yan

Shanghai Jiao Tong University, China



He Yang

Beihang University, China



Jianlong Yang

Shanghai Jiao Tong University, China



Jianxin Yang

The Chinese University of Hong Kong, Hong Kong, China



Jiandong Ye

Nanjing University, China



Winnie Ye

Carleton University, Canada



Xinglin Zeng

Shanghai Institute of Optics and Fine Mechanics, China



Cheng Zhang

Huazhong University of Science and Technology, China



Haixia Zhang

Peking University, China



Weili Zhang

University of Electronic Science and Technology of China, China



Wenxin Zhang

Nanjing University of Posts and Telecommunications, China



Zhiwei Zhu

East China Normal University, China



Yongchao Zou

National University of Defense Technology, China

Conference Venue

Hangzhou International Innovation Institute, Beihang University

Address: No. 166 Shuanghongqiao Street, Pingyao Town, Yuhang District, Hangzhou, China



Conference Agenda

July 15, 2026		
Time	Activities	Venue
10:00 - 18:00	Sign-in & Conference Materials Collection	C1-Conference Center
14:30 - 14:40	Shuttle Bus to Conference Center	Manju Prestige Hotel
16:30 - 16:40	Shuttle Bus to Manju Prestige Hotel	Conference Center
18:00 - 20:00	Welcome Reception	4F Manxiang Hall Manju Prestige Hotel
July 16, 2026		
Time	Activities	Venue
08:00 - 18:00	Sign-in & Conference Materials Collection	C1-Conference Center
08:30 - 08:40	Shuttle Bus to Conference Center	Manju Prestige Hotel
09:00 - 09:30	Opening Ceremony	C1-1016
09:30 - 09:40	Group Photo	C1-1016
Plenary Talks		
09:40 - 10:20	Semiconductor Nanostructures for Optoelectronics Applications Chennupati Jagadish, The Australian National University, Australia	C1-1016
10:20 - 11:30	Coffee Break / Poster Session / Industrial Exhibition	Outside C1-1016
11:30 - 12:10	Intelligent Photonics for Advanced Biomedical Imaging Juergen W Czarske, Dresden University of Technology, Germany	C1-1016
12:10 - 13:30	Lunch	North Canteen Conference Candidates 3F BISS Candidates B1/1F/2F
13:30 - 15:30	TS01. Sustainable Photonics Award Session I	C1-1001
	TS02. Sustainable Photonics for Environment I	C1-1006
	TS03. Sustainable Photonics for Energy I	C1-1007
	TS04. Sustainable Photonics for Infrastructure I	C1-1013
	TS05. Sustainable Photonics for Health I	C1-1014
15:30 - 16:00	Coffee Break	Outside C1-1016

July 16, 2026		
Time	Activities	Venue
16:00 - 18:00	TS06. Sustainable Photonics Award Session II	C1-1001
	TS07. Sustainable Photonics for Environment II	C1-1006
	TS08. Workshop on Photonic Sensors and Systems	C1-1007
	TS09. Sustainable Photonics for Infrastructure II	C1-1013
	TS10. Sustainable Photonics for Health II	C1-1014
18:00 - 18:15	Shuttle Bus to Manju Prestige Hotel	Conference Center
18:30 - 20:30	Banquet	2F-Mudan Hall Manju Prestige Hotel
July 17, 2026		
Time	Activities	Venue
08:00 - 11:00	Sign-in & Conference Materials Collection	C1-Conference Center
08:30 - 08:40	Shuttle Bus to Conference Center	Manju Prestige Hotel
09:00 - 10:00	TS11. Workshop on Sustainability	C1-1001
	TS12. Sustainable Photonics for Environment III	C1-1006
	TS13. Sustainable Photonics for Energy II	C1-1007
	TS14. Sustainable Photonics for Infrastructure III	C1-1013
	TS15. Sustainable Photonics for Health III	C1-1014
10:00 - 10:30	Coffee Break	Outside C1-1016
10:30 - 12:00	TS16. Panel Discussion: How Photonics Contributes to Sustainable Development Goals (SDG)?	C1-1001
	TS17. Sustainable Photonics for Environment IV	C1-1006
	TS18. Sustainable Photonics for Energy III	C1-1007
	TS19. Sustainable Photonics for Infrastructure IV	C1-1013
	TS20. Sustainable Photonics for Health IV	C1-1014
12:00 - 13:30	Lunch	4F Manxiang Hall Manju Prestige Hotel

Plenary Talks

Date: 16 July 2026 Time: 09:40-10:20 Venue: C1-1016



Chennupati Jagadish

The Australian National University, Australia

Bio.: Professor Jagadish is a Distinguished Professor Emeritus of Physics and Electronic Materials Engineering at the Australian National University. He has made pioneering contributions in semiconductor optoelectronics and nanotechnology. He has published more than 800 journal papers, co-authored a book and co-edited 15 books. He is a fellow of 16 Science and/or Engineering Academies of Australia, US, UK, China, Europe, India, The World Academy of Sciences and received many awards including UNESCO Medal for Nanotechnology, IEEE Photonics Award, IEEE Nanotechnology Pioneer Award. He has received Australia's highest civilian honor, AC, Companion of the Order of Australia, in 2016 for his contributions to physics and engineering, in particular nanotechnology. He has received 2023 Pravasi Bharatiya Samman Award from the President of India. He is currently serving as the President of the Australian Academy of Science and in the past served as President of IEEE Photonics Society, IEEE Nanotechnology Council and Australian Materials Research Society.

Semiconductor Nanostructures for Optoelectronics Applications

Abstract: Semiconductors have played an important role in the development of information and communications technology, solar cells, solid state lighting. Nanowires are considered as building blocks for the next generation electronics and optoelectronics. In this talk, I will present the results on growth of nanowires, nanomembranes and microrings and their optical properties. Then I will discuss theoretical design and experimental results on optoelectronic devices. In particular, I will discuss nanowire and micro-ring lasers and integration of nanowires and microrings. I will present results on single photon sources and detectors. Nanowire based energy devices such as solar cells and photoelectrochemical (PEC) water splitting will be discussed. I will present the results on chemical and bio sensors and neuro-electrodes to study brain signaling to understand dementia. Future prospects of the semiconductor nanostructures will be discussed.

Plenary Talks

Date: 16 July 2026 Time: 11:30-12:10 Venue: C1-1016



Juergen W Czarske

Dresden University of Technology, Germany

Bio.: Juergen W Czarske is Full Professor and leads the BIOLAS center and Institute for Circuits and Systems of TU Dresden. He is Member of Fraunhofer Society, Excellence Cluster Physics of Life, Else Kröner-Fresenius Center for Digital Health, BrainLinks & BrainTools in Freiburg and visiting professor in Arizona (Wyant College), at USST, SIOM and CORE (Japan). Prof Czarske's awards include the 2019 OPTICA Joseph-Fraunhofer-Award/Robert-M.-Burley-Prize in Optical Engineering, 2020 Laser Instrumentation Award of IEEE Photonics Society, 2022 SPIE Chandra S Vikram Award in Optical Metrology and 2024 SPIE Dennis Gabor Award in Diffractive Optics.

Prof Czarske is editor of Light Science and Applications, Advanced Photonics, Advanced Imaging, Light Advanced Manufacturing, Photonics, JEOS:RP. He is Vice President of International Commission for Optics, ICO, and was the general chair of the world congress ICO-25 with 3 Nobel laureates and attendees from 55 countries. He was a nominator for the Nobel Prize in Physics.

Intelligent Photonics for Advanced Biomedical Imaging

Abstract: Light has the potential to understand diseases and prevent their development, improve diagnostics, or cure them early and gently. Lens-based systems for tissue imaging have been continuously improved. However, lensless imaging enables paradigm shifts with unique advantages. We present lensless endoscopic techniques using diffusers, which enables 3D imaging with minimally invasive procedures. Diffusers perform a coding process that is transmitted via an endoscopic fiber and decoded using physics-informed deep learning. This intelligent photonics allows 3D imaging through scattering media by computer-based techniques but also by optical diffractive neural networks with low energy consumption. Furthermore, prospects of quantum imaging exploiting entangled photons are presented. The transfers of disruptive intelligent photonics to biomedicine, but also for metaverse, and fiber communication are highlighted.

Keynote Talks

Date: 16 July 2026 Time: 13:30-13:55 Venue: C1-1006



Olivier J.F. Martin

Swiss Federal Institute of Technology Lausanne, Switzerland

Bio.: Olivier J.F. Martin is Full Professor of nanophotonics and optical signal processing at the Swiss Federal Institute of Technology Lausanne (EPFL), where he conducts comprehensive research that combines the development of numerical techniques, advanced nanofabrication and experiments on nanophotonic systems. Applications of his research include optical antennas, metasurfaces, nonlinear optics, optical nano-manipulations, security features and optical forces at the nanoscale. Dr. Martin has authored over 300 journal articles and holds a handful of patents and invention disclosures.

Mueller Matrix Polarimetry of Metasurfaces

Abstract: Besides exhibiting significantly enhanced chirality, chiral nanostructures can serve as highly sensitive platforms for molecular enantiomer detection, offer control over multiple photonic degrees of freedom, permitting applications in optical manipulation, holographic encryption, structured illumination microscopy, chiral lasing, and quantum communication. Despite these advances, probing intrinsic chiral responses at the nanoscale remains a fundamental challenge in chiral nanophotonics, where multiple polarization effects coexist and often gets intertwined in complex ways. Here, we introduce a Mueller matrix – based methodology that captures the complete polarization response of complex nanostructured systems, enabling the decoupling of concurrent anisotropic effects and the accurate quantification of intrinsic chirality. We demonstrate that conventional approaches, such as circular dichroism, optical rotatory dispersion, and standard ellipsometric measurements can lead to significant artifacts when applied to systems exhibiting coupled polarization phenomena. In contrast, Mueller matrix polarimetry provides a robust framework to disentangle these effects and retrieve the true chiro-optical response. By integrating Mueller polarimetry with Fourier-domain imaging, we further resolve spatially inhomogeneous scattered polarization states, and establish a route toward advanced chiral sensing platforms. Beyond improved measurement accuracy, the proposed approach reveals deeper physical insights into intrinsic and extrinsic chirality in metasurfaces, polarization conversion mechanisms, and enhanced chiral light – matter interactions, which highlights that chiral nanophotonics encompasses a far richer landscape than that accessible through conventional chiro-optical measurements, opening new directions for both fundamental studies and practical applications.

Keynote Talks

Date: 16 July 2026 Time: 13:30-13:55 Venue: C1-1007



Jayanta Kumar Sahu

University of Southampton, United Kingdom

Bio.: Jayanta Kumar Sahu is a Professor of Photonics at the University of Southampton, UK, specializing in fiber lasers, optical engineering, and photonics. His research spans fiber optics, optical communications, and material characterization, contributing significantly to advancements in photonic technologies. He is affiliated with the university's Optoelectronics Research Centre (ORC), where he leads research and development in speciality fiber technology. His expertise positions him as a key figure in the global photonics research community. He is a Fellow of Optica.

Advances in Tm-doped Fibers for Power Scaling of 2 μ m and 0.82 μ m Lasers and Amplifier

Abstract: Thulium (Tm-) doped fiber lasers (TDFLs) operating in the eye-safe 2 μ m spectral region have demonstrated significant power scaling capability, following Yb-doped fiber lasers operating at 1 μ m. Their high quantum efficiency (>1.9) under ~ 790 nm laser diode pumping, enabled by a “two-for-one” cross-relaxation process, allows efficient high-power fibre laser operation, with demonstrated output powers of around 1 kW. However, the high thermal load in the fiber (on the order of several 100 W/m) presents significant thermal management challenges and can lead to fiber coating degradation and failure during high-power operation. Consequently, these thermal effects remain the primary limiting factor to further power scaling of 790 nm cladding-pumped TDFL systems beyond the kilowatt regime. This presentation reviews progress in cladding-pumped Tm-doped silica fibers with optimized core compositions and engineered refractive index profiles for achieving high laser efficiency at 2 μ m and to support high-power operation at shorter wavelength region (~ 0.82 μ m), which is particularly challenging to achieve. It further discusses high-temperature resistant coating that help prevent degradation under high-power operation and supports robust and reliable laser operation.

Keynote Talks

Date: 16 July 2026 Time: 13:55-14:20 Venue: C1-1007



Dong Liu

Zhejiang University, China

Bio.: He currently serves as Deputy Director of the State Key Laboratory of Extreme Optical Technology and Instruments, Director of the Chinese Society for Optical Engineering, and Deputy Chair of the Laser Spectroscopy Committee of the Chinese Optical Society. He holds editorial positions including Executive Associate Editor of Journal of Atmospheric and Environmental Optics, Deputy Editorial Board Member of Laser Technology, and Editorial Board Member of Acta Optica Sinica, Infrared and Laser Engineering, and other academic journals. Additionally, he has acted as Chair/Co-Chair, member of the Science Committee and Program Committee for numerous domestic and international academic conferences. His main research interests cover machine vision-based defect inspection, interferometric detection for extreme environments, and lidar for environmental monitoring. He has presided over 5 research projects funded by the National Key R&D Program of China and the National Natural Science Foundation of China. He has authored 5 textbooks and monographs. As the first author or corresponding author, he has published over 100 papers in top-tier journals and conferences including PNAS, Photonix, Light: Science & Applications, Remote Sensing of Environment, Environmental Science & Technology and CVPR. More than 20 authorized national invention patents have been successfully industrialized. He has delivered over 100 keynote, plenary and invited reports at domestic and international academic conferences. His research achievements have been awarded two First Prizes of Zhejiang Provincial Science and Technology Progress Award (ranked first) and one Gold Award of the Jinsui Award for China Optoelectronic Instrument Brand List (ranked first). In teaching, he won the First Prize of Zhejiang University Teachers' Teaching Innovation Competition (ranked first). The postgraduate students supervised by him have received prestigious honors such as the AERSS Outstanding Doctoral Dissertation Award (only 6 recipients nationwide) and the Excellent Paper Award of the Chinese Society for Optical Engineering (only 7 recipients nationwide).

Atmospheric and Oceanic Lidar for Environmental Studies

Abstract: The complex and variable atmospheric-oceanic environment is of great significance to ecological protection, climate and meteorology, national defense, and military industries. Light Detection and Ranging (Lidar) possesses the advantages of cross-medium detection and high spatiotemporal resolution. When integrated with multi-platform Lidar systems, it enables large-scale, long-term continuous, and high-precision detection of atmospheric-oceanic parameters, exhibiting technical characteristics of cross-scale spatiotemporal fusion, multi-parameter high-precision coordination, and data closed-loop enhancement. Focusing on the "three-dimensional distribution of optical and microphysical properties of atmospheric aerosols, clouds, and marine particles in coastal areas," extensive experiments have been conducted on atmospheric-oceanic environmental Lidar systems with different platforms and mechanisms in China's inland lakes as well as offshore areas such as the East China Sea and the South China Sea, yielding a large amount of three-dimensional detection data of coastal ecological environment parameters in China.

Keynote Talks

Date: 16 July 2026 Time: 13:30-13:55 Venue: C1-1013



Kenneth Kin-Yip Wong

The University of Hong Kong, Hong Kong, China

Bio.: Kenneth K. Y. Wong is a professor and former Head of the Department of Electrical and Electronic Engineering at the University of Hong Kong. He has received numerous awards, including the Best Teacher Award (2005-06), Outstanding Young Researcher (2008-09), and Outstanding Research Student Supervisor (2018-19). He is an Associate Editor of *Optica* and has served on the Publications Committee of SPIE, as well as an editor for *IEEE Photonics Technology Letters* and *Optics Express*. A senior IEEE member and recent SPIE and *Optica* Fellow, he also co-taught a course at MIT during the 2009-10 academic year and is the former Chair of the IEEE Hong Kong Section.

A Photonic, Ultra-fast, and Resource-Efficient Neural Network (PURE-NN)

Abstract: Photonic neural networks (PNNs) show immense potential as a next-generation AI hardware paradigm. Yet, despite rapid hardware innovations, the gap between current PNN systems and practical AI applications remains significant; while effective as standalone components, PNNs are difficult to integrate into modern AI pipelines. To bridge this gap, this work proposes a versatile, digital micro-mirror device (DMD)-based PNN computing unit designed to minimize system complexity and electro-optic conversions. Furthermore, a GPT-inspired image task scheduler is introduced, which drives the PNN as a black-box processor to execute complex tasks.

Keynote Talks

Date: 16 July 2026 Time: 13:30-13:55 Venue: C1-1014



Frederique Vanholsbeeck

The University of Auckland, New Zealand

Bio.: Professor Frédérique Vanholsbeeck is an internationally recognised physicist working at the interface of biophotonics, optical fibre technologies, and biomedical imaging. She is a Professor of Physics at Waipapa Taumata Rau, the University of Auckland, where she is the founding leader of the biophotonics group. Her research encompasses optical coherence tomography (OCT), fluorescence and vibrational spectroscopy, nonlinear optics, and multimodal optical imaging, with applications in tissue biomechanics, bacterial detection, environmental sensing, and cultural heritage science. Her team has developed versatile fibre-based imaging systems that enable non-destructive, dynamic interrogation of biological tissues and environmental samples.

In addition to her research, Professor Vanholsbeeck provides leadership within the international photonics community. She is Director of Te Whai Ao — the Dodd-Walls Centre for Photonic and Quantum Technologies, a New Zealand Centre of Research Excellence, and is widely recognised for her advocacy for diversity, equity, and inclusion in STEM. Overall, her work bridges fundamental optical physics with translational biophysical applications through interdisciplinary collaboration.

A Tale of Force and Light: How Optical Coherence Tomography and Raman Spectroscopy, Combined with Mechanical Testing, Reveal the Dynamic Behavior of Healthy and Diseased Articular Cartilage

Abstract: Articular cartilage achieves long-term load bearing and low-friction joint motion through a finely organised, depth-dependent collagen architecture and tightly regulated biochemical environment. Early disruption of this organisation alters tissue mechanics and molecular behaviour well before gross structural damage, such as osteoarthritis (OA), becomes apparent. However, conventional approaches rely on destructive, end-point analyses that preclude observation of cartilage dynamics under load. Here, we present a multimodal, non-destructive platform combining polarisation-sensitive optical coherence tomography (PS-OCT), Raman spectroscopy, and controlled mechanical compression to interrogate the coupled mechanical, structural, and biochemical response of cartilage in real time.

We have validated a compression – imaging platform, which enables simultaneous acquisition of depth-resolved PS-OCT images, Raman spectra, and force – displacement data during in situ controlled loading. Using bovine cartilage-on-bone samples, the system reproducibly captures classical microanatomical deformation patterns, including chevron-shaped shear deformation and formation of a shear discontinuity, while revealing their temporal evolution during loading. Dynamic birefringence and Raman measurements demonstrate clear distinctions between healthy and artificially damaged cartilage within the first minutes of compression, highlighting the sensitivity of the approach to early mechanical

dysfunction.

This platform has been applied to study a range of cartilage tissue, from healthy to those with their surface removed, and cartilage with clear signs of degeneration. The aim is to elucidate mechanisms underlying the initiation of OA. PS-OCT reveals that healthy tissue exhibits a gradual, depth-dependent increase in birefringence with strain that stabilises over time, consistent with controlled collagen reorientation and effective load redistribution. In contrast, damaged and diseased tissues show rapid, irregular birefringence changes, loss of coherent shear boundaries, and reduced lateral load dissipation. Complementary Raman spectroscopy, analysed using two-dimensional correlation spectroscopy, shows coordinated protein-, proteoglycan-, and water-related biochemical responses in healthy cartilage, while diseased tissue exhibits faster, altered biochemical dynamics and disrupted molecular coupling.

Together, these results demonstrate that healthy cartilage uniquely maintains coordinated mechanical, structural, and biochemical dynamics under load. The multimodal platform provides sensitive optical biomarkers of early degeneration and offers a powerful tool for early OA detection, functional tissue assessment, and evaluation of regenerative and therapeutic strategies.

Keynote Talks

Date: 16 July 2026 Time: 16:00-16:25 Venue: C1-1014



Yoshiaki Yasuno

University of Tsukuba, Japan

Bio.: Yoshiaki Yasuno leads the Computational Optics Group at the University of Tsukuba. He obtained his PhD based on his research work in spatio-temporal optical computing in 2000 and extended this concept to optical measurement, including Fourier-domain optical coherence tomography (OCT). Since 2003, he has been working in ophthalmic OCT imaging, including the retinal and the anterior-eye. He has also actively worked for OCT angiography and polarization-sensitive OCT. Since 2018, he has worked for OCT-based label-free microscopy, which enables multiple contrasts using computational technologies and theoretical modeling of modern metrology.

Imaging Spheroid Morphology and Function by Computationally Augmented Optical Coherence Tomography

Abstract: Spheroids are essential samples for cancer research and regenerative medicine. While recent advancements in cultivation technology have enabled the creation of larger, more complex spheroids that better mimic human physiology, standard imaging modalities cannot adequately assess the three-dimensional morphology and functions of living spheroids. Here, we demonstrate a new label-free, three-dimensional imaging modality: computationally augmented optical coherence tomography (CA-OCT). This modality does not use exogenous agents to highlight spheroid functions; instead, it leverages intrinsic intracellular dynamics to generate three-dimensional functional images. Additionally, several deep-learning models are incorporated to enhance both the imaging speed and quality of CA-OCT. In this talk, the concept and technical details of CA-OCT, as well as its application to spheroid imaging, will be presented.

Keynote Talks

Date: 16 July 2026 Time: 16:25-16:50 Venue: C1-1014



Fei Xu

Nanjing University, China

Bio.: Dr. Fei Xu received his Ph.D. in Optoelectronics in 2008 from the Optoelectronics Research Centre, University of Southampton, UK. He is currently a professor at the College of Engineering and Applied Sciences, Nanjing University, China. Dr. Xu is a senior member of Optica, IEEE and the Fellow Member of SPIE, his current research interests include developing novel fiber devices for ultra-small sensor, laser and imaging systems, smart contact lenses. He has edited one book, published 10 book chapters and more than 200 papers including Nature Electronics, Nature Communications, Science Advances, Optica, Light: Science & Applications.

Fiber Integration and Interaction

Abstract: The eyes are the windows to the soul. No other bodily organs or tissues can compare with the eyes in terms of the external information they receive and the physiological and psychological signals they convey. Non-invasive ocular monitoring enables the acquisition of a full spectrum of physiological and psychological data associated with the eyeball itself and cranial nerves. As the only medium capable of non-invasively and intimately linking the eyes, brain and the external world, contact lenses serve as an ideal human-eye-machine interaction platform. Flexible ultra-thin sensing components with perceptual functions can be encapsulated within medical contact lenses; once worn, these lenses can capture critical ocular signals in situ and establish communication and interaction with external devices.

Keynote Talks

Date: 17 July 2026 Time: 09:00-09:25 Venue: C1-1014



Thierry Denoeux

University of Technology of Compiègne, France

Bio.: Thierry Denoeux graduated from École nationale des ponts et chaussées in Paris, France and earned a PhD from the same institution. He is currently a Full Professor (Exceptional Class) with the Department of Information Processing Engineering at Université de Technologie de Compiègne, France. He is the president of the Belief Functions and Applications Society. In 2019, he was appointed as a senior member of Institut Universitaire de France, and he was reconducted in 2024. His research interests concern reasoning and decision-making under uncertainty and, more generally, the management of uncertainty in intelligent systems. His main contributions are in the theory of belief functions with applications to statistical inference, machine learning and information fusion. He is the author of more than 350 papers in journals and conference proceedings and he has supervised more than 30 PhD theses. He is the Editor-in-Chief of the International Journal of Approximate Reasoning (Elsevier), and an Associate Editor of several journals including Fuzzy Sets and Systems and IEEE Transactions on Fuzzy Systems.

Evidential Machine Learning: Theory and Applications to Medical Image Processing

Abstract: Evidential machine learning refers to a family of machine learning methods that quantify uncertainty using evidence theory, a generalisation of Bayesian theory based on belief functions. We first give a short introduction to belief functions and their use in information fusion and decision-making under uncertainty. We then describe machine learning models for classification and clustering grounded in evidence theory. Finally, we present applications to medical image processing, including cancer treatment outcome prediction and tumour segmentation.

Technical Sessions

TS01. Sustainable Photonics Award Session I	
Time: 13:30 - 15:30, July 16	Venue: C1-1001
Session Chair: Juergen W Czarske, Dresden University of Technology, Germany	
13:30-13:45	2434: Axial contour errors of biological samples in SS-OCT devices Adrian Fernandez Uceda, University of Kent, United Kingdom
13:45-14:00	0201: Discrete Block Cladding Topology Design of Hollow-Core anti-resonant Fibers for Low Confinement Loss Zihan Liu, Beihang University, China
14:00-14:15	2339: Hyperspectral Imaging and Intelligent Analysis Method for Chronic Disease Detection Yijing Chen, Beihang University, China
14:15-14:30	2735: The Differences in Coherent Acoustic Phonon Modes in MoSe₂/MoS₂ Heterojunctions Excited by the Pump-probe under Different Incident Directions Ziqiang Guan, Southeast University, China
14:30-14:45	3337: Reference-less Digital Optical Phase Conjugation for Multimode Fibers Exploiting Physics-informed Neural Networks Bowen Yang, Technische Universität Dresden, Germany
14:45-15:00	7328: Hybrid Integrated External Cavity Laser Based on Nanobeam Structure Junjie Yao, Soochow University, China
15:00-15:15	8222: Controllable Regulation of Stable Fourier Domain Mode-Locked Laser Yihong Xiao, The Hong Kong Polytechnic University, Hong Kong, China
15:15-15:30	4294: Ultra Compact Metalens Edge Coupler Haoyu Shi, Soochow University, China

Technical Sessions

TS02. Sustainable Photonics for Environment I	
Time: 13:30 - 15:35, July 16	Venue: C1-1006
Session Chair: Hao Wang, Beihang University, China	
13:30-13:55	Keynote Talk: Mueller Matrix Polarimetry of Metasurfaces Olivier J.F. Martin, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
13:55-14:15	Invited Talk: Optical Frequency Comb and Dual-Comb Spectroscopy Zhiwei Zhu, East China Normal University, China
14:15-14:35	Invited Talk: Specialty Fiber-Based High Sensitivity Acoustic Sensing Technology Huanhuan Liu, Shenzhen Institutes of Advanced Technology, CAS, China
14:35-14:55	Invited Talk: Active Photo-Responsive Fluorosurfactants for Precise Light-Driven Droplet Manipulation Guangyao Cheng, The Chinese University of Hong Kong, Hong Kong, China
14:55-15:15	Invited Talk: Optical Manipulation with Photonic Nanojet Yuxuan Ren, Fudan University, China
15:15-15:35	Invited Talk: Indium Phosphide Nanowire Arrays for Light-Assisted Gas Sensing Applications Shiyu Wei, Hefei University of Technology, China

Technical Sessions

TS03. Sustainable Photonics for Energy I	
Time: 13:30 - 15:35, July 16	Venue: C1-1007
Session Chair: Bo Fu, Beihang University, China	
13:30-13:55	Keynote Talk: Advances in Tm-doped Fibers for Power Scaling of 2 μm and 0.82 μm Lasers and Amplifier Jayanta Kumar Sahu, University of Southampton, United Kingdom
13:55-14:20	Keynote Talk: Atmospheric and Oceanic Lidar for Environmental Studies Dong Liu, Zhejiang University, China
14:20-14:40	Invited Talk: Insight Into Giant External Quantum Efficiency in Ga2O3 Schottky Photodiodes Jiandong Ye, Nanjing University, China
14:40-15:00	Invited Talk: Multi-functional Imaging and Image Processing with Optical Metasurfaces Cheng Zhang, Huazhong University of Science and Technology, China
15:00-15:20	Invited Talk: Multimode Fiber Assistant Lasers and Applications Weili Zhang, University of Electronic Science and Technology of China, China
15:20-15:35	0778: Inverse Design of Integrated High-Efficiency Silicon Nitride Edge Couplers Xinhe Zhang, Beihang University, China

Technical Sessions

TS04. Sustainable Photonics for Infrastructure I	
Time: 13:30 - 15:30, July 16	Venue: C1-1013
Session Chair: Guanghui Wang, Nanjing University, China	
13:30-13:55	Keynote Talk: A Photonic, Ultra-fast, and Resource-Efficient Neural Network (PURE-NN) Kenneth Kin-Yip Wong, The University of Hong Kong, Hong Kong, China
13:55-14:15	Invited Talk: Overcoming Data Bottlenecks in Ultrafast Single-Pixel Optical Imaging Chao Wang, University of Kent, United Kingdom
14:15-14:35	Invited Talk: Shape-Reconfigurable Materials for Dynamic Visible-to-Long-Wave Infrared Multiband Modulation Yujie Ke, Lingnan University, Hong Kong, China
14:35-14:55	Invited Talk: Metamaterial-Enabled Integrated Photonic Devices Towards Optical Interconnect Yu He, Shanghai Jiao Tong University, China
14:55-15:15	Invited Talk: Optical Modulation and Reconstruction Methods for Hyperspectral Imaging Jiachen Wu, Zhejiang University, China
15:15-15:30	3145: Deterministic Multiscale Diffraction and Spectral Engineering in Dragon-Curve Fractal Apertures Karakat Tugelbayeva, Nazarbayev University, Kazakhstan

Technical Sessions

TS05. Sustainable Photonics for Health I	
Time: 13:30 - 15:30, July 16	Venue: C1-1014
Session Chair: Adrian Podoleanu, University of Kent, United Kingdom	
13:30-13:55	Keynote Talk: A Tale of Force and Light: How Optical Coherence Tomography and Raman Spectroscopy, Combined with Mechanical Testing, Reveal the Dynamic Behavior of Healthy and Diseased Articular Cartilage Frederique Vanholsbeeck, The University of Auckland, New Zealand
13:55-14:15	Invited Talk: Towards Bidirectional Optical Brain Interfaces Lingjie Kong, Tsinghua University, China
14:15-14:35	Invited Talk: Rapid Intraoperative Label-Free 3D Volumetric Pathology of Lung Cancer via Deep-Learning-Augmented Dynamic Full-Field OCT Bin He, National University of Singapore, Singapore
14:35-14:55	Invited Talk: High-Fidelity Optical Coherence Tomography: From Fundamental Principles to Advanced Angiographic Processing Wenxin Zhang, Nanjing University of Posts and Telecommunications, China
14:55-15:15	Invited Talk: Intelligent Lensless Fiber Endomicroscopy: From Physical Inverse Problems to Optical Neural Networks Jiawei Sun, Suzhou Institute of Biomedical Engineering and Technology, CAS, China
15:15-15:30	0007: High-Speed, Widely Tunable 1310 nm MEMS-VCSEL for Swept-Source OCT Imaging Yu Li, The University of Hong Kong, Hong Kong, China

Technical Sessions

TS06. Sustainable Photonics Award Session II	
Time: 16:00 - 18:00, July 16	Venue: C1-1001
Session Chair: Juergen W Czarske, Dresden University of Technology, Germany	
16:00-16:15	2290: Dual-Functional Sandwich Platform for SERS Detection and In-Situ Photothermal Sterilization of Pseudomonas Aeruginosa Wenxin Lin, The First Affiliated Hospital of Ningbo University, China
16:15-16:30	4732: Transformer-Based Prediction of Ultraviolet Dispersive Waves in Anti-Resonant Hollow-Core Fibers Using UPPE Simulation Data Meng Gu, Hangzhou International Innovation Institute, Beihang University, China
16:30-16:45	7622: Synergistic Intracavity-Extracavity Control Enables Tailored Multi-Color Pulse Bursts Xuanzhe Zhang, Chongqing University, China
16:45-17:00	2371: Dual-Band Silicon Nitride Optical Phased Array Interface For Monolithic Fluorescence Transmit-Receive Sensing Qiaoling Zhou, Shanghai University, China
17:00-17:20	Invited Talk: Integrated Tunable Laser with Uniform Output Power An He, Soochow University, China
17:20-17:40	Invited Talk: Metasurface 3D Holography Jin Li, Beihang University, China
17:40-18:00	Invited Talk: An Intelligent Surface-Enhanced Raman Scattering Based Theranostic Platform for Urinary Tract Infection Management Kerong Wu, The First Affiliated Hospital of Ningbo University, China

Technical Sessions

TS07. Sustainable Photonics for Environment II	
Time: 16:00 - 18:00, July 16	Venue: C1-1006
Session Chair: Olivier J.F. Martin, Swiss Federal Institute of Technology Lausanne, Switzerland	
16:00-16:20	<i>Invited Talk: Nonlinear Conversion Between Single Frequency Laser and Frequency Comb</i> Yan Feng, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, China
16:20-16:40	<i>Invited Talk: Optical Skyrmions in Single Microcavities Formed by Photonic Spin-Orbit Coupling</i> Feng Li, Xi'an Jiaotong University, China
16:40-17:00	<i>Invited Talk: Aluminum 3D Lithography: Enabling High-dimensional Metasurfaces for Advanced Sensing</i> Liaoyong Wen, Westlake University, China
17:00-17:20	<i>Invited Talk: Trace Gas Sensors Based on Optical Micro/Nano Structure Modulation</i> Huizi Li, Shanghai Institute of Microsystem and Information Technology, CAS, China
17:20-17:40	<i>Invited Talk: Breaking the Bandwidth Limit: Evolution and Challenges of Interferometric Fiber Optic Hydrophones</i> Yongchao Zou, National University of Defense Technology, China
17:40-18:00	<i>Invited Talk: Fabrication and Applications of 3D Micro/Nanophotonic Devices via Two-Photon Lithography</i> Hongtao Wang, Beijing Institute of Technology, China

Technical Sessions

TS08. Workshop on Photonic Sensors and Systems --Organized by IEEE Sensors, Systems and China Councils Joint Chapter	
Time: 16:00 - 18:00, July 16	Venue: C1-1007
Session Chair: Kan Wu, Shanghai Jiao Tong University, China	
16:00-16:20	<i>Invited Talk: Picometer Interferometry Based on Multi-Dimensional Soliton Manipulation in Mode-Locked Fiber Laser</i> Yudong Cui, Zhejiang University, China
16:20-16:40	<i>Invited Talk: Digital Holographic Three-Dimensional Measurement Technique and Instrumentation for High-End Manufacturing</i> Hao Yan, Shanghai Jiao Tong University, China
16:40-17:00	<i>Invited Talk: Research on the Formation Mechanism and Symmetry Breaking of Optical Frequency Combs in Dual-Component Kerr Resonators</i> Tianye Huang, China University of Geosciences (Wuhan), China
17:00-17:20	<i>Invited Talk: Integrated Optical Devices for Terahertz Applications</i> Jingya Xie, University of Shanghai for Science and Technology, China
17:20-17:40	<i>Invited Talk: Growth and Optical Defects of Lithium Niobate Crystals for Integrated Photonics</i> Dehui Sun, University of Jinan, China
17:40-18:00	<i>Invited Talk: Integrated Mode-Locked Lasers on Lithium Niobate</i> Kan Wu, Shanghai Jiao Tong University, China

Technical Sessions

TS09. Sustainable Photonics for Infrastructure II	
Time: 16:00 - 18:00, July 16	Venue: C1-1013
Session Chair: Ning Liu, Soochow University, China	
16:00-16:20	<i>Invited Talk: Semiconductorization of Photonics for AI and Hyperscale Data Centers</i> Jinyu Mo, POET Technologies, Singapore
16:20-16:40	<i>Invited Talk: Compressive Transmission Matrix for Optical Multimode System</i> Yi Xu, Guangdong University of Technology, China
16:40-17:00	<i>Invited Talk: Integrated Adaptive Turbulence-Compensating Photonic Receiver for Free-Space Optical Communications</i> Jifang Qiu, Beijing University of Posts and Telecommunications, China
17:00-17:20	<i>Invited Talk: Sustainable Scaling of Optical Infrastructure via BDFA-Amplified O-Band Networks</i> Natsupa Taengnoi, Kasetsart University, Thailand
17:20-17:40	<i>Invited Talk: All-Optical Reservoir Computing Based on Trap-State Carrier Dynamics</i> Jianqing Li, Macau University of Science and Technology, Macau, China
17:40-18:00	<i>Invited Talk: Advanced Sensing and Novel Lasers Based on Fiber Rayleigh Scattering</i> Zinan Wang, University of Electronic Science and Technology of China, China

Technical Sessions

TS10. Sustainable Photonics for Health II	
Time: 16:00 - 18:10, July 16	Venue: C1-1014
Session Chair: Frederique Vanholsbeeck, The University of Auckland, New Zealand	
16:00-16:25	<i>Keynote Talk: Imaging Spheroid Morphology and Function by Computationally Augmented Optical Coherence Tomography</i> Yoshiaki Yasuno, University of Tsukuba, Japan
16:25-16:50	<i>Keynote Talk: Fiber Integration and Interaction</i> Fei Xu, Nanjing University, China
16:50-17:10	<i>Invited Talk: Multifunctional OCT for Intraoperative Tumor Diagnosis and Rapid Pathology</i> Ping Xue, Tsinghua University, China
17:10-17:30	<i>Invited Talk: A Hybrid Microscopic & Laparoscopic Nonlinear Imaging Platform for Noninvasive Sensing and Inspection in Biology and Semiconductor</i> Hao Li, A*STAR SIMTech, Singapore
17:30-17:50	<i>Invited Talk: Optically Transparent and Electrically Conductive Thin Films: New Sensing and Biosensing Opportunities</i> Mateusz Smietana, Warsaw University of Technology, Poland
17:50-18:10	<i>Invited Talk: Fabrication of Sub-nm Pores Using Photovoltaic Electrochemical Etch-Stop Technique for DNA Sequencing</i> Jianxin Yang, The Chinese University of Hong Kong, Hong Kong, China

Technical Sessions

TS11. Workshop on Sustainability	
Time: 09:00 - 10:00, July 17	Venue: C1-1001
Session Chair: Zhenggang Lian, Yangtze Optical Electronics Co., Ltd., China	
09:00-09:20	<i>Invited Talk: The Light Series of Journals Serves the Academic Community</i> Yuhong Bai, Light Publishing Group, China
09:20-09:40	<i>Invited Talk: Strategic Integration of Photonic Technologies for Smart, Low-Carbon and Resilient University Campuses</i> Khairul Nizam Abdul Maulud, Universiti Kebangsaan Malaysia, Malaysia
09:40-10:00	<i>Invited Talk: Subwavelength Silicon Photonics for Sustainable Communications and Intelligent Sensing</i> Winnie Ye, Carleton University, Canada

Technical Sessions

TS12. Sustainable Photonics for Environment III	
Time: 09:00 - 09:50, July 17	Venue: C1-1006
Session Chair: Huizi Li, Shanghai Institute of Microsystem and Information Technology, CAS, China	
09:00-09:20	<i>Invited Talk: From Synthesis to Device: Plasmonic Nanoparticles for Ultrasensitive and Sustainable Optical Sensing</i> Monica Focsan, Babes-Bolyai University, Romania
09:20-09:35	<i>7621: Quasi-Periodic Coherence Revival by Complex Fractal Phase Masks</i> Kamilla Ilyasheva, Nazarbayev University, Kazakhstan
09:35-09:50	<i>9107: Ultrafast Framing Imaging for X-Ray Measurement</i> Houzhi Cai, Shenzhen University, China

Technical Sessions

TS13. Sustainable Photonics for Energy II	
Time: 09:00 - 10:00, July 17	Venue: C1-1007
Session Chair: Qiannan Cui, Southeast University, China	
09:00-09:20	<i>Invited Talk: Engineering Quantum Materials for Quantum Technologies</i> Chit Siong Aaron LAU, Quantum Innovation Centre, A*STAR, Singapore
09:20-09:40	<i>Invited Talk: Optoacoustic Mode-Locking Based on Photonic Crystal Fiber</i> Wenbin He, Shanghai Institute of Optics and Fine Mechanics, CAS, China
09:40-10:00	<i>Invited Talk: Flexible Transmission of Broadband Mid-Infrared Ultrafast Pulses in Hollow-Core Photonic Crystal Fibre</i> Jiapeng Huang, Hangzhou Institute of Optics and Fine Mechanics, China

Technical Sessions

TS14. Sustainable Photonics for Infrastructure III	
Time: 09:00 - 10:00, July 17	Venue: C1-1013
Session Chair: Jifang Qiu, Beijing University of Posts and Telecommunications, China	
09:00-09:20	<i>Invited Talk: Self-Coherent Optical Communications: Driving the 200G PON Era</i> Dongxu Lu, Westlake University, China
09:20-09:40	<i>Invited Talk: Single-polarization 600-Gb/s Silicon Photonic Local Oscillator-Free Homodyne Receiver for Optical Interconnects</i> Jingchi Li, Shanghai Jiao Tong University, China
09:40-10:00	<i>Invited Talk: III-V Semiconductor Based Nanostructures for High Performance Infrared Photodetection and Imaging</i> Ziyuan Li, Beijing Institute of Technology, China

Technical Sessions

TS15. Sustainable Photonics for Health III	
Time: 09:00 - 10:00, July 17	Venue: C1-1014
Session Chair: Hao Du, Beihang University, China	
09:00-09:25	<i>Keynote Talk: Evidential Machine Learning: Theory and Applications to Medical Image Processing</i> Thierry Denoeux, University of Technology of Compiègne, France
09:25-09:45	<i>Invited Talk: Trustworthy AI in Healthcare: From Theory to Clinical Application</i> Ling Huang, Imperial College London, United Kingdom
09:45-10:00	<i>4285: Combined OCT-Raman System for AI-Assisted Breast Tissue Classification</i> Rene Riha, University of Kent, United Kingdom

Technical Sessions

TS16. Panel Discussion: How Photonics Contributes to Sustainable Development Goals (SDG)?	
Time: 10:30 - 12:00, July 17	Venue: C1-1001
Session Chair: Xia Yu, Beihang University, China	
10:30 - 12:00	Panel Discussion: How Photonics Contributes to Sustainable Development Goals (SDG)?

Technical Sessions

TS17. Sustainable Photonics for Environment IV	
Time: 10:30 - 12:00, July 17	Venue: C1-1006
Session Chair: Monica Focsan, Babes-Bolyai University, Romania	
10:30-10:50	Invited Talk: Optofluidic Application of Fiber Optic Beam Shaping Technologies Kyunghwan Oh, Nazarbayev University, Kazakhstan; Yonsei University, South Korea
10:50-11:10	Invited Talk: Computational Imaging with Metasurfaces Trevon Badloe, Korea University, South Korea
11:10-11:30	Invited Talk: Broadband Infrared Quantum Cascade Photodetectors Based on Two-Dimensional Material Moiré Superlattices Sichao Du, Hangzhou City University, China
11:30-11:45	9989: Direct Near-Field Visualization of Deep-UV Silicon Nanohole Modes Using Monochromated STEM-EELS Nikolai Lavrentev, National University of Singapore, Singapore
11:45-12:00	5916: Robust Generation of Meron Texture by a Non-Local Metasurface in the Near-IR Range Wenlin Luan, Beihang University, China

Technical Sessions

TS18. Sustainable Photonics for Energy III	
Time: 10:30 - 11:45, July 17	Venue: C1-1007
Session Chair: Daiqi Xiong, Hangzhou International Innovation Institute, Beihang University, China	
10:30-10:50	<i>Invited Talk: From Alice to Alita: Integrated Hardware and Software for Embodied AI</i> Haixia Zhang, Peking University, China
10:50-11:10	<i>Invited Talk: Ultrafast Photoacoustic Spectroscopy for Noninvasive Detection of Integrated Chip</i> Qiannan Cui, Southeast University, China
11:10-11:30	<i>Invited Talk: When Twisted Photons Meet Twisted Phonons: Advanced Brillouin Interaction in Microstructured Photonic Crystal Fibres</i> Xinglin Zeng, Shanghai Institute of Optics and Fine Mechanics, China
11:30-11:45	<i>8806: Research on Growth Suppression of Annular Laser-Sustained Plasma</i> Hong Yang, Beihang University, China

Technical Sessions

TS19. Sustainable Photonics for Infrastructure IV	
Time: 10:30 - 12:00, July 17	Venue: C1-1013
Session Chair: Chengbo Mou, Shanghai University, China	
10:30-10:50	<i>Invited Talk: High-Repetition-Rate Optical Frequency Combs Enabled by Optoelectronic Oscillation</i> Jingmin Liu, Hebei University, China
10:50-11:10	<i>Invited Talk: Microcavity Based On-Chip Nonlinear Light Source</i> He Yang, Beihang University, China
11:10-11:30	<i>Invited Talk: Ultrafast GHz Fiber Laser Using a Multifunctional Carbon Nanotube Overcoated Long-Period Fiber Grating</i> Lilong Dai, Shanghai University, China
11:30-11:45	<i>5485: Neuromorphic Computing for Sustainable Space Division Demultiplexing of Multimode Fiber</i> Qian Zhang, TU Dresden, Germany
11:45-12:00	<i>9121: Visible to Near-Infrared Hollow-Core Fibers: Design, Fabrication, Characterization, and Applications</i> Wei Gao, Yangtze Optical Electronic Co., Ltd., China

Technical Sessions

TS20. Sustainable Photonics for Health IV	
Time: 10:30 - 12:05, July 17	Venue: C1-1014
Session Chair: Hao Li, A*STAR SIMTech, Singapore	
10:30-10:50	<i>Invited Talk: In Vivo Characterization of the Biomechanical Properties of Ocular Tissues Using Clinical Imaging</i> Xiaofei Wang, Beihang University, China
10:50-11:10	<i>Invited Talk: From Seeing to Understanding: Optical Perception for Intelligent Microsurgery</i> Jianlong Yang, Shanghai Jiao Tong University, China
11:10-11:30	<i>Invited Talk: Highly Coherent Swept Lasers and the Applications</i> Dongmei Huang, The Hong Kong Polytechnic University, Hong Kong, China
11:30-11:50	<i>Invited Talk: Holographic Endoscopic Imaging and Sensing via Multimode Fiber</i> Yang Du, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, China
11:50-12:05	<i>9061: Automated Detection of Cancerous Breast Tissue Using Artificial Intelligence and Optical Coherence Tomography Imaging</i> Marco Santopietro, University of Kent, United Kingdom

Poster Session

Poster Session	
Time: 10:20 - 11:30, July 16	Venue: Outside C1-1016
NO.	Presentation
01	0624: Inverse Design of a Circular Super-Gaussian Mode-Field Fiber at 1064 nm Lihao Fang, Shanghai Institute of Optics and Fine Mechanics, CAS, China
02	0191: Improving the Performance of Fiber-Integrated Microlenses Using Complex Surface Designs Jan Kosnic, Warsaw University of Technology, Poland
03	0497: A Modular Projection Microstereolithography Platform for High-Resolution 3D Microprinting Michał Ptaszek, Warsaw University of Technology, Poland
04	1118: Downconversion Leader-Follower Optical Coherence Tomography With Electrically Synthesised Masks Adrian Podoleanu, University of Kent, United Kingdom
05	1400: Wide-Field Full-Color Imaging Enabled by a Quadratic-Phase Metalens and a Physics-Guided Restoration Network Zhi Liu, Hangzhou International Innovation Institute, Beihang University, China
06	2134: Hybrid Optoelectronic Vision for High-Precision Feature Extraction Minsung Kang, Korea University, South Korea
07	2267: Wide-Gamut Structural Color Design Using a Dimer Metasurface With an Index-Matching Layer Jiajun Zhu, Hangzhou International Innovation Institute, Beihang University, China
08	2508: Optimization of Acquisition Time by Using Parameters Determination Method for Laser Inter-Satellite Links Xiangnan Liu, Xidian University, China
09	3087: Intelligent Soft Opto-Magnetic Robot for Minimally Invasive Interventional Therapy Xiaoyan Guo, Beihang University, China
10	4799: Forward Brillouin Scattering in Highly Nonlinear Nano-Bore Photonic Crystal Fiber Jiale Xu, Wuhan University of Technology, China
11	5220: Autofluorescence Imaging and Lightweight Classification Method for Skin Cancer Screening Chuandong Zhang, Lanzhou University of Technology, China
12	5678: Biological Tissue Imaging Based on SD-OCT Junyu Leng, Beihang University, China
13	5700: Implementation of Avalanche-Based Multi-Pixel Photon Counters for OS� Dosimetry Systems Maciej Przychodzki, Warsaw University of Technology, Poland

14	5840: Dual-Modulation of Charge Transfer in Surface-Enhanced Raman Scattering for Qualitative and Quantitative Exosome Detection Kerong Wu, The First Affiliated Hospital of Ningbo University, China
15	6131: Metasurface-Inspired Cantor-Dust Phase Operators for Multiscale Optical-Field Modulation in a 4f Fourier System Azkia Mehdi, Nazarbayev University, Kazakhstan
16	6282: A Multi-Reflection Microfluidic Absorbance Detection Module With Enhanced Optical Path for Calcium Sulfite Concentration Monitoring Haoming Zheng, Jinzhou Thermal Power Branch, Liaoning Datang International New Energy Co., Ltd., China
17	6453: Anisotropic High-Harmonic Generation and Carrier Dynamics in Monolayer Black Phosphorene: A Real-Time TDDFT Study Dildar Ahmed, Beihang University, China
18	7309: Helical On-Fiber Microstructures Fabricated by Two-Photon Polymerization for High-Sensitivity Force Sensing Jan Pindor, Warsaw University of Technology, Poland
19	7563: Frequency-Division Multiplexing for Single-Shot Imaging Through Scattering Media Weili Zhang, University of Electronic Science and Technology of China, China
20	7766: Thermoluminescent Properties of Rare-Earth-Doped Sodium Borophosphate Glasses for Dosimetric Applications Krzysztof Wyrwas, Warsaw University of Technology, Poland
21	7789: Modulation-Free Chaotic Pulse-Cluster Laser Source for High-Precision Ranging Yaru Yu, Hebei University, China
22	8448: Physics-Informed Optimisation for Single Image OCT Calibration Owen Simmons, University of Kent, United Kingdom
23	9324: Pulse Dynamics in Near-Zero Dispersion Coupled Optoelectronic Oscillators Lingrui Niu, Hebei University, China
24	9923: Wavelength-Dependent Focusing Behavior of Incomplete-Phase Metalenses Wenlan Li, Hangzhou International Innovation Institute, Beihang University, China

Memo

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