



Light Conference on Photonics Innovation | October 2026 —————> (Suzhou) | >>> 11-12

Suzhou Shishan International Conference Center, Suzhou, China



Hosts

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European Optical Society
Changchun Institute of Optics, Fine Mechanics and Physics(CIOMP), CAS
Suzhou Photonics Industry Development Co., Ltd.

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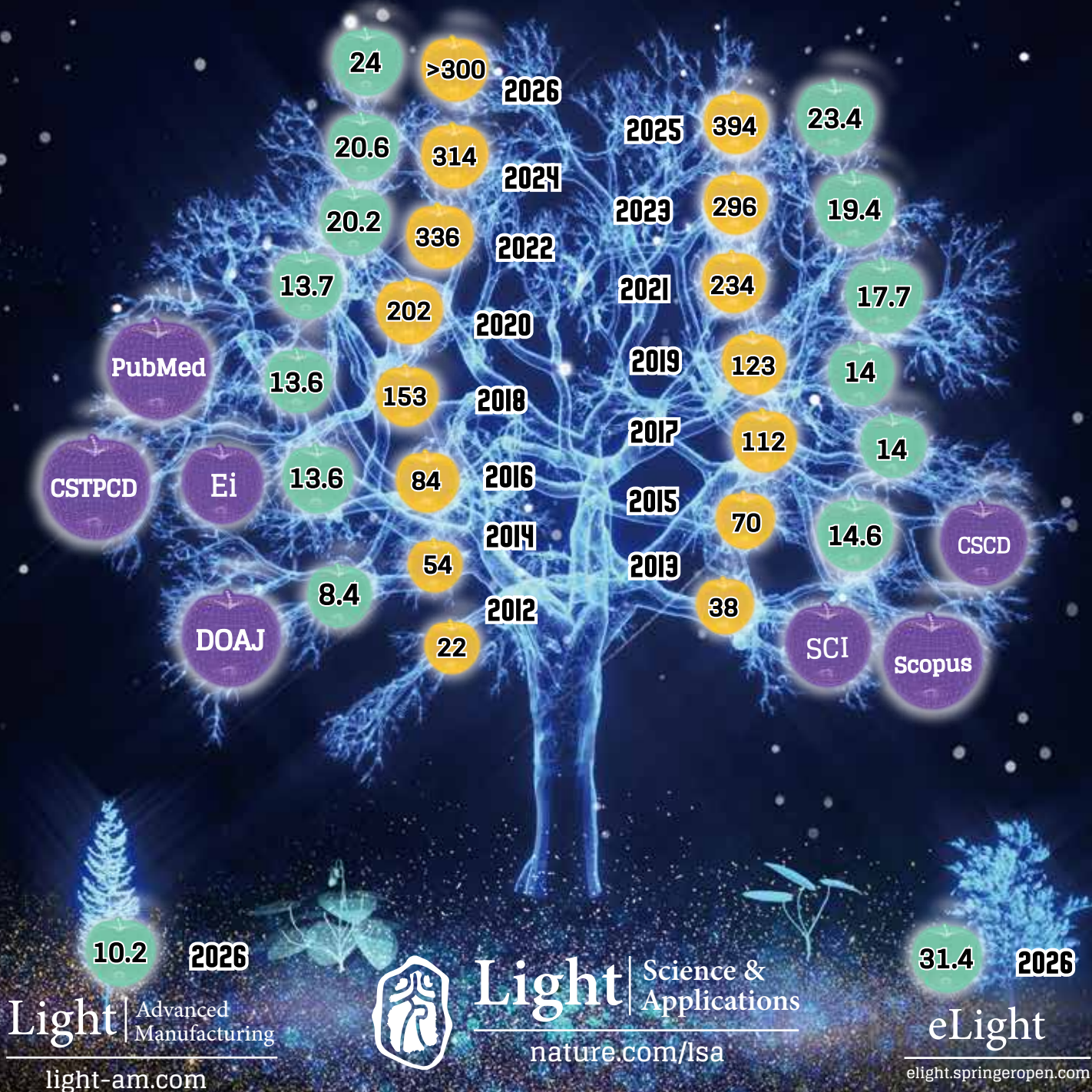


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Light Publishing Group

Light Publishing Group (LPG) is the proprietor of world renowned journals: Light: Science & Applications, top journal for comprehensive optics; eLight, premier journal for emerging and cross-disciplinary optics; Light: Advanced Manufacturing, leading journal for advanced manufacturing; as well as seven other esteemed journals, collectively broadening our scope beyond the boundary of optics.

LPG establishes itself upon a wealth of global talents, bolstered by the unwavering dedication from dozens of full-time/ad-hoc professional editors, thousands of noted editorial board members, as well as tens of thousands of outstanding authors and reviewers. By virtue of such foundation, LPG journals have cultivated millions of readers, with the influence spanning across optics, mechanics, materials, condensed matter physics, and biomedical sciences. Tens of thousands of readers have visited LPG's office.

LPG is a place dedicating to the pursuit of excellence in academic publishing brand while transcending the boundaries of traditional publishing. Beyond traditional publishing,

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LPG bridges between science and society, our Top Ten Social Influence Events in Chinese Optics and Light Popular Science engage millions of public audiences into the world of science, showcasing the charm of scientific inquiry.

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LPG reserves a corner for science anecdotes, where Light Story Collection, Light Salon, and Light People invite you to savor the bygone days, old friends, along with the history and future of science. LPG plants the seeds of hope, our Seed of Light scholarship support undergraduate students in pursuing careers in science.

As the golden partner of UNESCO's International Day of Light and International Year of Light, we have set up 27 global offices worldwide, extending ourselves deep into the research endeavors across the globe.

Looking back, LPG has explored various adventurous routes within merely a decade's time. Gazing ahead, we commit to advancing the landscape of science media, and contributing to the wellbeing of science and technology for generations to come.

Conference Introduction

The Light Conference on Photonics Innovation 2026 (Suzhou) will be held on October 11–12, 2026. The conference will be jointly organized by Light Publishing Group and Suzhou Photonics Industry Development Co., Ltd., and held concurrently with the 2026 Taihu Photonics Valley Conference & China (Suzhou) Photonics Industry Development Conference. Guided by the Light brand's commitment to international vision, frontier exploration, and open collaboration, the conference will focus on key areas including liquid crystal display and imaging, advanced manufacturing, and multispectral AI. It will bring together leading scientists, young researchers, industry experts, and innovative enterprises from the global photonics community to discuss emerging advances and application trends in photonic technologies.

Rooted in Suzhou, connected with the Yangtze River Delta, and linked to the world, the conference aims to promote the deep integration of academic research, key technologies, application scenarios, and industrial resources, while accelerating the transformation of photonic research outcomes and the coordinated development of the innovation ecosystem. Through this conference, Light Publishing Group hopes to contribute to empowering new quality productive forces through photonic technologies and advancing global collaboration in photonic industry innovation.

General Information

Conference Venue

Suzhou Shishan International Conference Center (狮山国际会议中心)

Address: No. 78 Jinshan East Road, Huqiu District, Suzhou, Jiangsu Province, China

江苏省苏州市虎丘区金山东路 78 号

Committee

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Giulio Cerullo
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University of Cambridge, UK



Juergen Czarke
Technische Universität Dresden, Germany



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Xuejun Zhang
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Program

Time	Content
October 12, Suzhou Shishan International Conference Center (Shishan B Hall, 2 nd Floor)	
Opening Ceremony	
Host: Prof. Daping Chu	
11:00-11:15	Welcome Remarks Prof. Juergen Czarske, Co-Chairs, TU Dresden, Germany Leader of Suzhou High-tech Zones Prof.Shouhong Sun, Vice President of Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China
11:15-11:20	Group Photo
Session 1	
Chair: Prof. Daping Chu	
11:20-11:50	Prof. Quan Li (Southeast University, China) (Keynote) Title: Light-Responsive Materials: Our Research
11:50-12:20	Prof. Giulio Cerullo (Politecnico di Milano, Italy) (Keynote) Title: Fourier-Transform Hyperspectral Imaging: From Microscopy to Remote Sensing
12:20-13:30	Lunch
Session 2	
Chair: Prof. Juergen Czarske	
13:30-14:00	Prof. Daping Chu (University of Cambridge, UK) (Keynote) Title: Photonic Development for AR/VR Applications – Engineering Driven Business Innovation
14:00-14:25	Prof. Xiaofeng Li (Soochow University, China) (Invited) Title: Advanced Modulation Strategies for Thermoelectric Photodetectors
14:25-14:50	Prof. Costantino De Angelis (University of Brescia, Italy) (Invited) Title: Virtual Metasurfaces for Multispectral Image Processing in a Thin Nonlinear Film
14:50-15:15	Prof. Liangcai Cao (Tsinghua University, China) (Invited) Title: Intelligent vision processor based on metasurface
15:15-15:45	Coffee Break
Session 3	
Chair: Prof. Giulio Cerullo	
15:45-16:15	Prof. Juergen Czarske (TU Dresden, Germany) (Keynote) Title: Physics-Informed Neural Networks Using 3D-Printed Chips and Liquid-Crystal-on-Silicon
16:15-16:40	Prof. Cheng Liu (University of Science and Technology of China, China) (Invited) Title: Chinese AI-enhanced Satellite and Drone Remote Sensing for Atmospheric Trace Gases
16:40-17:05	Prof. Tao Li (Nanjing University, China) (Invited) Title: Meta-optics 3.0: On-chip meta-device for innovative applications
17:05-17:30	Prof. Rong Su (Shanghai Institute of Optics and Fine Mechanics, CAS, China) (Invited) Title: Computational Surface Metrology for Precision Optics Manufacturing
17:30-17:55	Prof. Xinghui Li (Tsinghua University, China) (Invited) Title: Deep Learning-Enabled Intelligent Fringe Structured Light 3D Measurement: Physics-Guided, Robust, and Data-Efficient Reconstruction

Abstracts

Photonic Development for AR/VR Applications – Engineering Driven Business Innovation

University of Cambridge, United Kingdom

Daping Chu

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Abstract:

Photonic innovation requires more than device performance: successful translation depends on combining optical science with system engineering, manufacturability, user needs and a viable route to market. This talk presents three photonic development case studies from the Cambridge Centre for Photonic Devices and Sensors (CPDS) in augmented- and virtual-reality applications. The first concerns diffractive optical waveguides for lightweight AR glasses, where Optiark has progressed from optical design and micro/nano fabrication to integrated display modules and volume manufacturing. The second addresses the vergence–accommodation conflict in near-eye displays. Accommodation-free retinal projection developed at CPDS led to AllFocal Optics and a focus-free architecture that keeps virtual information clear across different viewing depths. The third concerns automotive head-up displays, where ReaVis's Parallel Vector technology enables ghost-image-free projection using standard windscreens and provides a platform for multi-focal and computer-generated-holographic 3D AR-HUDs. Together, the cases illustrate an engineering-driven approach to business innovation: identifying system-level optical bottlenecks, developing original photonic solutions, demonstrating application value, and translating research into scalable products.

Short Bio:



Daping Chu is the Chair of Technology and Innovation at the University of Cambridge and the Director of Cambridge Centre of Photonics and Sensors (CPDS). He is also the Academic Director of Cambridge University – Nanjing Centre of Technology and Innovation.

Physics-Informed Neural Networks Using 3D-Printed Chips and Liquid-Crystal-on-Silicon

TU Dresden, Germany

Juergen Czarske

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Abstract:

The fusion of deep learning and physical models has opened up novel perspectives in information processing, particularly for the Internet of Things and the vision of the quantum internet. The "Physics-in-Network" method employs a sequence of programmable phase masks and free-space diffraction to perform matrix multiplications. Such an optical computer operates with negligible latency and energy consumption, making it highly significant for the green, sustainable photonics area. The phase masks were implemented for instance by spatial light modulators (SLMs) based on liquid-crystal-on-silicon and MEMS technologies. Furthermore, a photonic chip was fabricated using femtosecond laser 3D printing. The multi-plane light conversion systems feature a high degree of freedom, which has been utilized for routing, mode sorting, mode decomposition and the correction of mode conversion in multimode fibers (MMFs). The novel multiplexing method for MMFs is highlighted, paving the way for novel fiber networks towards Internet of Things and Quantum Internet.

Short Bio:



Juergen W. Czarske (Fellow OPTICA, SPIE, IET, IOP, EOS, COS, SAW, WLT) is director of the BIOLAS center (Biomedical Computational Laser Systems) and Institute for Circuits and Systems, both based at TU Dresden. His 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. He is editor of the journals *Light: Science and Applications*, *Photonix Life*, *Intelligent Opto-Electronics*, *Advanced Photonics*, *Advanced Imaging*, *Light: Advanced Manufacturing*, *Photonics*, *Applied Sciences* and *JEOS*.

Fourier-Transform Hyperspectral Imaging: From Microscopy to Remote Sensing

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Giulio Cerullo

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Abstract:

Hyperspectral imaging (HSI) combines imaging with spectroscopy, recording a spectrum at every point of a scene and enabling spatially resolved identification of materials and chemical species. Conventional approaches based on spectral or spatial scanning face trade-offs among acquisition speed, optical throughput, and spectral resolution. We present a versatile HSI approach based on Fourier-transform (FT) spectroscopy and an ultrastable common-path birefringent interferometer. By recording interferograms in parallel on a two-dimensional detector, FT-HSI provides high optical throughput, flexible spectral resolution, excellent wavelength accuracy, and robust operation. We demonstrate this concept across different spectral ranges and modalities. In the visible and near-infrared, FT hyperspectral microscopy enables fluorescence imaging of biological and material samples. Applied to spontaneous Raman scattering, it provides high-throughput, label-free chemical imaging with sub-micrometer spatial resolution and enables rapid detection of microplastics in environmental samples. Finally, extension to the thermal infrared enables remote hyperspectral imaging in the 8–14 μm range using an uncooled microbolometer array. These results establish common-path FT-HSI as a compact and scalable platform spanning microscopy, chemical analysis, environmental monitoring, and remote sensing.

Short Bio:



Giulio Cerullo is a Full Professor with the Physics Department, Politecnico di Milano, where he leads the Ultrafast Optical Spectroscopy laboratory. He has published over 600 papers which have received more than 37,000 citations (H-index: 97 on Scopus). He is a Fellow of the Optical Society of America, of the European Physical Society, of the Accademia dei Lincei and of Accademia Europaea. In 2023, he received the Quantum Electronics Prize of the European Physical Society.

Light-Responsive Materials: Our Research

Institute of Intelligent Materials, Southeast University, China

Quan Li

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Abstract:

Light offers unparalleled spatiotemporal control over matter. In my talk, I will present our recent research and breakthroughs in light-responsive materials. In particular, I will introduce light-controlled molecular machines, photo-modulated chirality, and their applications spanning adaptive camouflage, reconfigurable optics, smart display, and novel photoimmunotherapy. Our work not only reveals the inherent beauty of light-matter interactions at the nanoscale and beyond but also paves the way for transformative technologies in dynamic photonics, soft robotics, phototherapeutics, and energy solutions. Furthermore, the opportunities and challenges facing the field will be discussed.

Short Bio:



Quan Li is Distinguished Chair Professor and Founding Director of the Institute of Intelligent Materials at Southeast University, China. He is the Honorary Editor-in-Chief of Chinese Journal of Liquid Crystals and Displays, the founding Editor-in-Chief of Wiley Responsive Materials, and an editor of Springer Nature Light: Science & Applications. Li held appointments in the USA, Germany, and France. He received his Ph.D. from the Chinese Academy of Sciences in Shanghai, where he was promoted to the youngest Full Professor in February 1998. Li was an Alexander von Humboldt Fellow in Germany. He is a Fellow of the Royal Society of Chemistry (FRSC) and has been elected a member of the European Academy of Sciences and of the European Academy of Sciences and Arts.

Li has been listed as a Highly Cited Researcher by Clarivate and Elsevier. His current research interest spans stimuli-responsive smart soft matter, advanced photonics, optoelectronic materials for energy harvesting and energy saving, functional nanoparticles, biomedical materials, theranostic agents, nanoengineering and device fabrication.

Virtual Metasurfaces for Multispectral Image Processing in a Thin Nonlinear Film

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Costantino De Angelis

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Abstract:

Metasurfaces have transformed wavefront engineering by enabling subwavelength control over amplitude, phase, and polarization through tailored nanostructuring, and engineered spatial dispersion has further extended metasurface functionality toward optical signal processing and analog computing. Nonlinear wave mixing offers a new paradigm. Instead of permanently encoding functionality into nanostructured geometry, structured illumination in space, time, spectrum, and polarization allows an effective optical response to be written, in real time, onto a thin and largely unpatterned nonlinear film, a virtual, rather than lithographically defined, metasurface. We extend this framework here to the spectral and polarization degrees of freedom. Our results establish nonlinear wave mixing as a software-defined layer for optical functionality, that extends image processing, spectral upconversion, polarimetry, and structured-light generation beyond the constraints of linear optics and fabrication-defined design.

Short Bio:



Costantino De Angelis received his PhD from the University of Padova (1993) where he served as Assistant Professor of Electromagnetic Fields and Photonics. In 1998 he joined Brescia University where he is Full Professor of Electromagnetic Fields and Photonics since 2004. He is the head of the NORA group at the University of Brescia and his current research interests include nonlinear optics, nanophotonics, and optical metamaterials. He is a Fellow of OPTICA (the Optical Society of America).

Intelligent vision processor based on metasurface

Tsinghua University, China

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Abstract:

Recent advances in artificial intelligence have accelerated the development of intelligent vision applications, creating increasing demands for efficient visual computing at the edge. Existing electronic computing architectures struggle to support real-time visual inference on edge devices due to the von Neumann bottleneck. Photonic computing offers a promising paradigm for meeting the growing computational demands of vision applications. However, practical edge deployment remains challenging, as bulky optical hardware hinders system integration, while task-specific optical processing limits generalization and remains susceptible to noise. We propose a compact vision processor that combines optical feature encoding with electronic computing, enabling visual processing. The object classification and video action recognition are realized via the intelligent vision processor.

Short Bio:



Liangcai Cao received his BS/MS and PhD degrees from Harbin Institute of Technology and Tsinghua University, in 1999/2001 and 2005, respectively. Then he became an assistant professor at the Department of Precision Instruments, Tsinghua University. He is now tenured professor at Tsinghua University. He was a visiting scholar at UC Santa Cruz and MIT in 2009 and 2014, respectively. His research interests are holographic imaging and holographic display. He is a Fellow of the Optica and the SPIE.

Meta-optics 3.0: On-chip meta-device for innovative applications

Nanjing University, China

Tao Li

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Abstract:

Optical metasurface, as a new kind of optical design with 2D architecture, has enabled versatile functionalities towards new conceptual optical devices and systems. Thanks to its extremely high flexibility in structural design and powerful capability in optical wave tailoring, optical metasurfaces are revolutionizing both newly-emerging technologies and conventional optical techniques. In this talk, I would like to address the development of imaging and sensing technology enabled by metasurface in a viewpoint of on-chip meta-devices (regarded as Meta-optics 3.0). Specifically, compact meta-device for enhanced quantitative phase imaging (QPI) and wavefront sensing will be particularly interpreted. Finally, new perspectives to future development of metasurface technology will be addressed.

Short Bio:



Tao Li received his PhD degree in Condensed Matter Physics from Nanjing University. He is a professor of Nanjing University, China.

Advanced Modulation Strategies for Thermoelectric Photodetectors

School of Optoelectronic Science and Engineering & Collaborative Innovation Center of Suzhou Nano Science and Technology, Soochow University, Suzhou, China; Key Lab of Advanced Optical Manufacturing Technologies of Jiangsu Province & Key Lab of Modern Optical Technologies of Education Ministry of China, Soochow University, Suzhou, China

Xiaoyi Liu, Xiaofeng Li

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Abstract:

Photodetection technology plays an irreplaceable role in fields of security, military, biomedical engineering, and industrial inspection. Compared with photon-type detectors, thermoelectric detectors have become a promising option due to their advantages such as room temperature operation, wide spectral response, and low cost. However, limited by the delay of energy conversion processes and inherent material properties, traditional thermoelectric devices have long-standing performance bottlenecks such as low energy conversion efficiency, slow response speed, and lacking of spectral resolution. Here we demonstrate advanced modulation strategies for thermoelectric detectors to mitigate aforementioned challenges. Based on unique structural frameworks, the response characteristics and robustness of these devices can be effectively controlled by modulating their photo-thermal-electric conversion processes. The validated thermoelectric photodetectors not only achieve breakthroughs in extended operating bandwidth, ultrahigh spectral resolution, response speed, temperature adaptability, etc., but present significant competitiveness in device thickness, cost-effectiveness, and CMOS compatibility.

Short Bio:



Professor Xiaofeng Li received B.Eng. and Ph.D. (hons.) degrees in Communication Engineering from Southwest Jiaotong University, China, in 2002 and 2007, respectively. From 2007 to 2010, he was working as a research fellow in the School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore. From 2010 to 2011, he was employed at Imperial College London as a research associate. He began to work at Soochow University as a full professor in January 2012. He is now the vice president of Soochow University. His research interests include photovoltaics, photodetection, nanophotonics and applications. He has authored around 300 papers in journals including Nature Energy, Advanced Materials and Nano Letters. He served as an associate

editor for OSA Applied Optics and IEEE Photonics Journal for six years, and is now an editorial member of eLight, PhotoniX, and Advanced Photonics.

Deep Learning–Enabled Intelligent Fringe Structured Light 3D Measurement: Physics-Guided, Robust, and Data-Efficient Reconstruction

Tsinghua University, China

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Abstract:

Deep learning-driven fringe structured light 3D reconstruction and measurement, represented by typical fringe projection profilometry (FPP), has become a growing research focus, enabling real-time, high-precision 3D sensing. However, the internal 3D reconstruction mechanism of FPP—including the multi-step grating-to-depth transformation, unique image-phase characteristics, and the demand for micron-level accuracy—poses fundamental challenges that are not adequately addressed by conventional deep learning architectures. Moreover, measured objects tend to possess complex and diverse surface characteristics in practical scenarios and the problem of high-dynamic-range imaging is often required. To address these challenges, we first propose a physically aligned system design methodology encompassing high-precision system calibration, a background- and space-dependent FPP 3D dataset construction strategy, and multi-path physics-supervised single-frame end-to-end 3D reconstruction (MPS). Benefiting from this system and pretraining on roughly 1,000 data groups, MPS reduces the absolute-phase mean absolute error (MAE) by nearly 50%, substantially advancing the precision of single-frame FPP. Meanwhile, an end-to-end network for high-dynamic-range structured light, HDRSL-Net, automatically compensates for overexposed and underexposed regions, overcomes the speed bottleneck of traditional multi-exposure methods, and enables robust 3D reconstruction under complex illumination and strong reflections. To further improve reconstruction performance in complex scenes but with limited input information, a foreground-enhanced single-frame method (FESS-3D) suppresses shadow and background interference through a mask-based shadow-free loss and gradient-guided foreground enhancement, reducing end-to-end RMSE by up to 72% and achieving approximately 10 μm accuracy in the F2ND pipeline from a single input. Moreover, a contrastive learning-driven FPP framework (CLSL) aligns fringe and phase-related features for data-efficient, high-precision reconstruction, using only 28.6% and 42.9% of a 700-sample training reference on metallic and plaster datasets, respectively, while reducing test phase error by more than 10%. These technical schemes offer paradigms tailored to FPP-based 3D measurement and hold great promise for advancing 3D reconstruction in intelligent manufacturing and precision inspection.

Short Bio:



Prof. Xinghui Li received his Ph.D. degree from Tohoku University, Japan, in 2014. His research emphases lie in optical precision metrology and intelligent imaging. He serves as the principal investigator for the General Program of the National Natural Science Foundation of China, the Key Program of the Natural Science Foundation of Guangdong Province, as well as multiple industrial collaborative research projects with leading enterprises including Huawei, BYD and CETC. Prof. Li has authored and co-authored over 200 peer-reviewed papers in top international journals. His works have accumulated more than 4,600 citations on Google Scholar, corresponding to an H-index of 43. He has been consecutively selected for the World's Top 2% Scientists ranking during 2022–2025.

He has received a series of academic honors, such as the Gold Medals of the International Invention Exhibition and the National Invention Exhibition, and the Silver Medal of the Geneva International Exhibition of Inventions.

Chinese AI-enhanced Satellite and Drone Remote Sensing for Atmospheric Trace Gases

University of Science and Technology of China, China

Cheng Liu

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Abstract:

Satellite hyperspectral remote sensing has become a powerful tool for monitoring atmospheric trace gases on a global scale. China's hyperspectral satellites—including GaoFen-5/EMI, GaoFen-5B/EMI and DaQi-1/EMI—now overpass at different times of day, yet multi-platform measurement inconsistencies, cloud-induced data gaps, mixed column-to-surface signals and once-daily revisit frequency limit their direct utility for air-quality management. This talk presents a series of AI-enhanced satellite and drone hyperspectral remote sensing techniques developed at the University of Science and Technology of China for atmospheric trace-gas monitoring.

The first addresses multi-platform spectral consistency: a spectral re-calibration method corrects retrieval biases across different satellite overpasses, enabling globally consistent twice-daily HCHO products validated against ground-based MAX-DOAS measurements. The second combines hyperspectral spectral analysis with neural operators, using meteorological, emission and terrain information to fill cloud-induced data gaps, convert satellite column concentrations to near-surface levels, and extend single overpass snapshots to continuous 24-hour fields. Validated against national monitoring stations, this satellite-plus-AI approach substantially outperforms satellite-only retrievals. The third concerns drone hyperspectral remote sensing, where a compact high-SNR payload, tomographic imaging and active nighttime illumination achieve meter-level spatial resolution and rapid revisit under cloud cover, enabling minute-scale identification of individual emission sources within industrial parks.

Taken together, these technologies form a space-ground integrated observation system that delivers global satellite monitoring, AI-reconstructed hourly near-surface fields, and drone-supported meter-scale source identification. The data products are published daily through WeChat public accounts, supporting fine-scale monitoring of industrial parks.

Short Bio:



Cheng Liu is a Chair Professor at the University of Science and Technology of China, where he serves as Associate Dean of the School of Engineering Science. He is a Distinguished Young Scholar of the National Natural Science Foundation of China, Principal Investigator of a National Key R&D Program of China, and a member of the Expert Panel for the National Key R&D Program on "Earth Observation and Navigation". His research focuses on space-air-ground integrated hyperspectral remote sensing instruments and AI-based analytical techniques. He has developed domestic UV-visible hyperspectral satellite retrieval algorithms, enabling air-quality assurance for major national events to be supported by China's satellite remote sensing. His academic honors include the Second

Prize of the National Science and Technology Progress Award (China), the Ho Leung Ho Lee Foundation Prize for Scientific and Technological Innovation, the China Youth Science and Technology Award, the First Prize of the Ministry of Education Award for Outstanding Research, the First Prize of the Anhui Provincial Science and Technology Award, the Science Exploration Award, the First Prize of the Environmental Protection Science and Technology Invention Award, the China Patent Excellence Award, and a Gold Medal at the Geneva International Exhibition of Inventions.

Computational Surface Metrology for Precision Optics Manufacturing

Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China

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Abstract:

The manufacturing of next-generation precision optics, such as extreme ultraviolet (EUV) mirrors, demands unprecedented metrological capabilities. Fabricating surfaces with picometer-level roughness pushes traditional, hardware-reliant optical metrology to its physical limits. This presentation introduces a suite of novel computational surface metrology techniques that shift the burden of precision from physical instrumentation to advanced algorithmic processing. We present three techniques: 1) Spatial-Temporal Fourier Analysis for Laser Fizeau Interferometry provides form measurement of large ellipsoidal binary gratings. 2) Multi-Functional Coherence Scanning Interferometry enables to simultaneously extract surface roughness, film thickness, and defect characteristics. 3) Computational Angle-Resolved Scatterometry utilizes advanced inversion models for non-scanning evaluation of mid and high spatial frequency roughness. Collectively, these computational techniques bridge critical measurement gaps across all spatial scales, providing a robust, scalable pathway for the fabrication and qualification of ultra-precision optical systems.

Short Bio:



Rong Su is a Professor at the Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences. After earning his Ph.D. in Optical Metrology from the KTH Royal Institute of Technology, he spent six years at the National Physical Laboratory and the University of Nottingham in the UK before returning to Shanghai. Su has a long-standing commitment to the development of ultra-precision optical instruments and technologies, particularly for surface metrology. His research has yielded significant real-world impact, with many of his outcomes being adopted within the optics and microelectronics industries. He has authored over 60 peer-reviewed publications and holds more than 10 invention patents. In 2021, he was awarded a fellowship from the Chinese Academy of Sciences.

Active in the global metrology community, Su serves on the ISO TC213/WG16 committee and is a member of the editorial boards for three scientific journals, including *Light: Advanced Manufacturing*.

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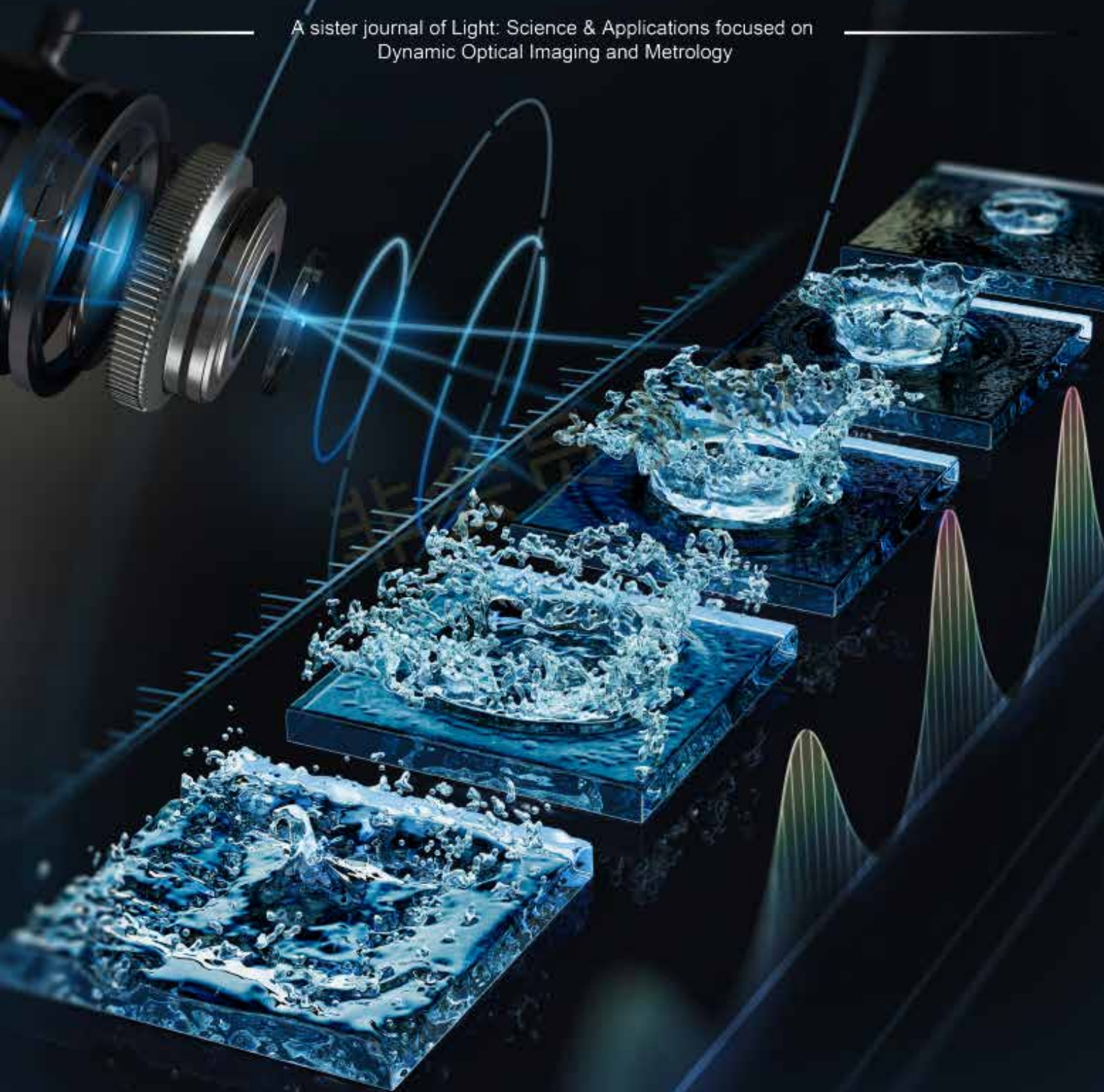
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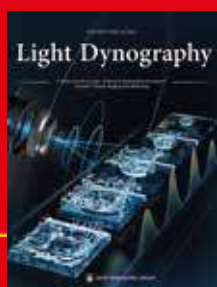
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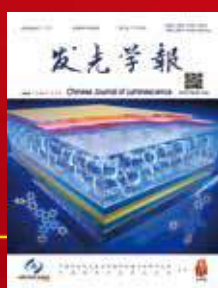
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