1600 - 1800

1700 - 1900

SPIE Meeting (Sembawang Room, Level 3) (for students only)

Adventures in Optical Metrology

Dr Peter De GROOT
SPIE, Vice President

Welcome Reception (Sentosa Room, Level 3)

All are Welcome!

Tuesday, 28 November 2023							
Time	PROGRAMME						
0800 - 1600	Registration (Level 4, Main Foyer)						
0900 - 1700	Exhibition (Changi Ballrooms, Level 4)						
0900 - 0910	Opening Ceremony (Atrium Ballroom, Level 4)						
0910 - 0955		Plenary 1 (Atrium Ballroom, Level 4) Session Chair: Fang CHENG Testing optics with interferometry and tunable-wavelength lasers De Peter De GROOT Zygo Corporation, United States					
0955 - 1040		Digita	Plenary 2 (AtHum Ballroom, Level 4) Session Chair: Fang CHENG al holographic metrology for imaging acoustics & vibra Prof Pascal PICART Le Mans Université, France	tions			
1040 - 1050			Group Photo (Atrium Ballroom, Level 4)				
1050 - 1105			AM Break (Changi Ballrooms, Level 4)				
1105-1125		Keynote 1 (Atrium Ballroom, Level 4) Session Chair: Cuong DANG Specular surface shape measurement with collimated phase measuring deflectometry Dr Lei Huang Brookhaven National Laboratory, United States					
1125-1145	Keynote 2 (Atrium Ballroom, Level 4) Session Chair: Cuong DANG The slope deflectometry system development for three dimensional profile measurement Dr Fugui YANG Institute of High Energy Physics, China						
1145-1205	Keynote 3 (Attrium Ballroom, Level 4) Session Chair: Cuong DANG Sub-10 nm focusing of hard X-ray free-electron laser for reaching 10^22 W/cm^2 intensity Prof Jumpei YAMADA Department of Precision Engineering, Osaka University, Japan						
1205 - 1330			Lunch/Posters on Display Exhibition Area (Changi Ballrooms, Level 4)				
	Breakout 1 (Atrium Ballroom, Level 4)		Breakout 2 (Seletar 2, Level 3)		Breakout 3 (Seletar 3, Level 3)		
Special Session (1330-1530)	Student Competition Session Chair: Shijie FENG	А	SS3: advances in digital holography techniques Session Chair: Peng GAO	(Seletar 3, Level 3) Stol: Industrial optical inspection and non-destructive testing (NDT) Session Chair: Joseph LHTTON, Tong LIU			
1330-1345	15485: High robust spatio-temporal wavefront prediction in adaptive optics via a mixed graph neural network Ju TANG Northwestern Polytechnical University, China	1330-1350	15669: Digital holographic reconstruction and generation with unpaired and dual-distance learning models Zhenbo REN Northwestern Polytechnical University, China	1330-1350	15477: Exploitation of Industrial X-ray Computed Tomography for Surface Metrology of Metallic Additively Manufactured Parts Shan LOU Future Metrology Hub, University of Huddersfield, United Kingdom		
1345-1400	15472: Sub-Aperture Stitching Interferometry With Dual Quaternion For X-ray Mirrors Shuai ZHANG University of Chinese Academy of Sciences, China	1350-1405	15498: Engineering Axial Resolution Realtime And Post- Recording of Incoherent Holograms Using Hybridization Techniques Shivasubramanian GOPINATH University of Tarut, Estonia	1350-1410	Automated Visual Inspection System For Visible Particulates In Injections Shaowei FU Applied Materials South East Asia Pte. Ltd, Singapore		
1400-1415	15511: Image-based wavefront sensing and correction for atmospheric turbulence by using deep reinforcement learning Mengmeng ZHANG Northwestern Polytechnical University, China	1405-1420	Surface Plasmon Resonance Holographic Microscopic Imaging Technology And Application Research Jlazhen DOU Guangdong University of Technology, China	1410 - 1425	15638: Transformer-Based Smart Inspection For Agricultural Products Via X-Ray Images Chaoyu DONG Nanyang Technological University, Singapore		
1415-1430	15497: Parallel synthetic aperture transport-of-intensity diffraction tomography with annular illumination Habib ULLAH Nanjing University of Science and Technology, China	1420-1435	15532: High-speed 3D particle tracking using neuromorphic digital holography Ge ZHOU Shanghat University, China	1425-1440	15481: An initial study on using X-ray computed tomography to measure the surface roughness of additively manufactured metal lattices Ronnie SSEBAGGALA University of Huddersfield /Advanced Remanufacturing / Linited Kingdom		
1430-1445	15502: Some recent advances in mirror-assisted multi-view digital image correlation Katyu ZHU Beshang University, China	1435-1450	15574: Digital Holography with Deep Learning for Algae Identification and Classification Chinnapat RUTTANASIRAWIT King Mongkut's Institute of Technology Ladkrabang, Thailand	1440-1455	Use of X-Ray Computed Tomography (CT) of weld spots defects Marcus NG Singapore Institute of Manufacturing Technology, Singapore		
1445-1500	15514: Heat haze neutralization on high-temperature digital image correlation measurements via deep learning Yanzhao LIU Bethang University, China	1450-1505	15605: Real-time 3D scenes acquisition method for light field 3D display Qionghua WANG Bethang University, China	1455 -1510	15544: Three-dimensional height measurement with an improved 3D camera Hon Luen SECK Singapore Institute of Manufacturing Technology, Singapore		
1500-1515	Validating The Efficacy of Deformation Distribution Measurement In CFRP Laminates During Three-Point Bending Using The Sampling Morie Method Tong DING Bethang University, China			1510-1525	18513: Development of a vision system for cast mould defect inspection under extreme high temperature Weili WANG Weili WANG Advanced Remanufacturing & Technology Centre (ARTC), Singapore		
1515-1530	15573: Deep learning-enabled structured light system for single-shot absolute 3D shape measurement Yixuan LI Nanjing University of Science and Technology, China						
1530 - 1545			PM Break Exhibition Area (Changi Ballrooms, Level 4)				
	Breakout 1 Breakout 2 Breakout 3 (Atrium Ballroom, Level 4) (Seletar 2, Level 3) (Seletar 3, Level 3)						
(1545-1745)	Student Competition Session Chair: Shijie FENG		GT9,11 NDT and others Session Chair: Chenxing WANG		SS19: Optical Engineering in Industry Session Chair: QiongHua WANG GT16: Other Related Topics Session Chair: QiongHua WANG		
1545-1600	15533: The application of the moiré method to defect detection and strain imaging in Si single crystals Qingcui HUANG Bethang University, China	1545-1600	15535: Improved Video Motion Magnification Method Assisted by Digital Image Correlation Tong DING Beihang University, China	1545-1605	15480: All-In-One Microscope For 3D Inspection And Testing Jingzhu HONG d'Optron Pte Ltd, Singapore		
1600-1615	15534: Development Of Light-induced Detection Method For Viruses With Plasmonic Nano-bowl Substrate Masatoshi KANODA Osaka Metropolitan University, Japan	1600-1615	15538: X-Ray computed tomography based high-accuracy analysis for the compressive properties of thin shell lattice structures: effect of geometric defects Lei ZHANG Shanghai Jiao Tong University, China	1605-1625	18520: An introduction of resin SRG wave guides in AR glasses Wetzheng HUANG Meta-Bounds, China		
1615-1630	15507: Uniform LIPSS on Copper Created Using Zeroth-Order Femtosecond Bessel Beam For SERS-based Applications Dipanjan BANERIEE University of Hyderabad, India	1615-1630	15549: Feasibility of in-situ health monitoring for composite structure with embedded piezoelectric sensor networks Khanh VO Nanyang Technological University, Singapore	1625-1640	15600: A Calibration Method For LED Point Light Sources In Near-Field Photometric Stereo Jing YU University of Wollongong, Australia		
1630-1645	15625: Detecting and Characterizing Spatter Particles on Additively Manufactured Surfaces in 3D Using X-Ray Computed Tomography and Deep Learning Chaoyu DONG Nanyang Technological University, Singapore	1630-1645	15569: Optical Imaging and Optical Manipulation Based on Microdroplets Xixi CHEN Institute of Nanophotonics, Jinan University, China	1640-1655	15508: Point cloud pair constraint registration algorithm based on directed distance function Xingzhao WANG Shanghai University, China		
1645-1700	15491: Internal defect detection method based on dual-channel speckle interferometry Thuny VVAN Southeast University, China	1645-1700	15617: Active thermal marker using thermal images of heated areas with visible semiconductor laser Assoc Prof Tomohiko HAYAKAWA Tokyo University of Science! University of Tokyo, Japan				
1700-1715	15503: Accuracy Analysis of Stereo Calibration Methods With Large Field Of View Wet KANG Southeast University, China	1700-1715	15613: Parametric studies of liquid LIBS analysis for agricultural applications Daryl LIM Nanyang Technological University, Singapore				
1715-1730	15572: Robust acquisition-reduced iterative structured illumination microscopy Jiaming QIAN Nanjing University of Science and Technology, China	1715-1730	15645: Characterization of X-ray scintillation film Timothy SHONG Singapore Institute of Manufacturing Technology, Singapore				

	Wednesday, 29 November 2023					
Time	PROGRAMME					
0800 - 1500 0900 - 1700			Registration (Level 4, Foyer) Exhibition (Changi Ballrooms, Level 4)			
1/00	Exhibition (Changi Ballrooms, Level 4) Plenary 3 (Atrium Ballroom, Level 4) Session Chair, Chan ZLO					
0900 - 0945	Session Chair: Chao ZUO Publishing in Nature Journals Dr Rachel WON Spinger Nature Group, United Kingdom					
0945 - 1030	Plenary 4 (Atrium Ballroom, Level 4) Session Chair: Chao ZUO Advances in high-accuracy three-dimensional dynamic deformation measurement and its applications for large structures					
1030 - 1045			Prof Xiaoyuan HE Southeast University, China AM Break (Changi Ballrooms, Level 4)			
			Keynote 4 (Atrium Ballroom, Level 4) Session Chair: Haixia WANG			
1045-1105	Three-dimensional shape mea	surement of diffu	sed/specular surface by combining fringe projection properties of the professional	ofilometry and ph	ase measuring deflectometry	
1105-1125	Keynote 5 (Atrium Ballroom, Level 4) Session Chair: Haixia WANG Session Chair: Haixia WANG Quantitative Phase Microscopy And Phase Correlation Spectroscopy for Biology Prof Peng GAO Xidian University, China					
1125-1145		Res	Keynote 6 (Atrium Ballroom, Level 4) Session Chair: Haixia WANG earch on Single Pixel Imaging Method for Moving Obj Dr Dongfeng SHI Chinese Academy of Sciences, China	ect		
1145 - 1330			Lunch / Poster Session Exhibition Area (Changi Ballrooms, Level 4) Presenter to standby Poster			
	Breakout 1 (Atrium Ballroom, Level 4)		Breakout 2 (Seletar 2, Level 3)		Breakout 3 (Seletar 3, Level 3)	
(1330-1530)	SS14: Optical measurement and instrumentation Session Chair: Yingjie YU		SS15: Quantitative phase imaging Session Chair: Chao ZUO	Sess	(Seletar's, Level 3) SS18: X-ray optics and metrology Session Chairs: Lei HUANG, Jumpei YAMADA	
1330-1350	15672: Development of optical measurement techniques for large aperture optics applied in high power laser systems Shijle LIU Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences (CAS), China	1330-1350	15679: Deep-learning Quantitative Phase Imaging for High Throughput Live-cell Imaging and Analysis Renjic ZHOU The Chinese University of Hong Kong, Hong Kong, China	1330-1350	15474: X-ray optics development and metrology at Shanghai Synchrotron Radiation Facility Lian XUE Chinese Academy of Sciences, Shanghai, China	
1350-1410	15654: Trustworthy deflectomety: from precision to accuracy Xiangchao Zhang Fudan University, China	1350-1410	15589: Computational phase imaging for label-free 3D microscopy Chao ZUO Nanjing University of Science and Technology, China	1350-1410	15587: Development of stitching interferometry and ion beam figuring methods for high precision X-ray mirrors Quishi HUANG Tongji University, China	
1410-1430	15668: High precision multi-surface interferometry under non- integer sampling Yingie YU Shanghai University, China	1410-1430	15647: High-quality dynamic phase imaging based on fourier ptychographic microscopy Jiasong SUN Nanjing University of Science and Technology, China	1410-1430	Surface Interferometric Mensurement Method With Higher Accuracy For X-ray Optical Applications Xi HOU Institute of Optics and Electronics, Chinese Academy of Sciences, China	
1430-1445	15518: Visible wide-angle optical reconnaissance system design with high resolution, low distortion and high relative illumination. Ving. Shun HSU National Central University, Taiwan	1430-1450	15681: Multi-harmonic structured illumination based optical diffraction tomography (MHSI-ODT) Peng GAO Xidian University, China	1430-1450	15662: Requirements of the SHINE optics and consideration of their optical metrology Xiaohao DONG Chinese Academy of Sciences, China	
		1450-1505	15468: Deep learning-enabled pixel super-resolution quantitative phase microscopy from single-shot intensity measurement Jie ZHOU Nanjing University of Science and Technology, China	1450-1510	15678: X-ray Optical Technology At High Energy Photon Source (HEPS) Fugui YANG Institute of High Energy Physics, CAS, China	
1520				1510-1525	Developments of stitching interferometry techniques for the SHINE long X-ray mirrors surface shape measurement Gung ZHOU Shanghai Institute of Applied Physics, Chinese Academy of Sciences, China	
1530 - 1545	PM Break Exhibition Area (Changi Balirooms, Level 4)					
	Breakout 1 (Atrium Ballroom, Level 4)	Breakout 2 (Seletar 2, Level 3)		Breakout 3 (Seletar 3, Level 3)		
(1545 - 1745)	SS2: 3D shape measurement based on fringe projection Session Chair: Dongliang ZHENG	GT13: Quantitative Phase Imaging Session Chair: Liangcai CAO		GT6: Image Processing and Deep Learning Session Chair: Liyong REN		
1545-1605	15655 : The way towards AI-based high-speed structured light 3D imaging Shijie FENG Nanjing University of Science and Technology, China	1545-1605	15578: Aberration-free high bandwidth holographic imaging Liangeai CAO Tsinghua University, China	1545-1605	15479: Real-time polarimetric de-scattering imaging technology from thread framework to algorithm optimization and underwater demonstration Liyong REN Natural Science Foundation of Shaanxi Province, China	
1605-1625	15604 : Multi-dimensional information sensing based on DIC-assisted fringe projection profilometry Zhoujie WU Sichuan University, China	1605-1620	15663: High-speed 3D imaging and metrology: from classical fitinge projection to deep learning approaches Chao ZUO Nanjing University of Science and Technology, China	1605-1620	15488: Polarization demosaicking algorithm based on polarization channels correlation Yanji YI University of Science and Technology of China, China	
1625-1645	15671 : 3D Reconstruction of Dynamic Object Based On Improved Deep Optical Flow Tracking Lei LYU Henan University of Technology, China	1620-1635	15461: Transport of intensity diffraction tomography with non-interferometric synthetic aperture for three-dimensional label-free microscopy Jiaji LI Nanjing University of Science and Technology, China	1620-1635	18508: A Two-Stage Deep Learning Method for Foreign Object Detection and Localization Zhenbiao WANG Advanced Remanufacturing & Technology Centre (ARTC), Singapore	
1645-1700	15616: Phase-shift Error Estimation Based On Deep Learning Ketao YAN Changzhou University, China	1635-1650	15622: Differential phase contrast quantitative phase imaging based on optimal modulation of asymmetric illumination Yao FAN Nanjing University of Science and Technology, China	1635-1650	15664: CycleSR: Unsupervised Learning for 3D fingerprint Super-Resolution Haixia WANG Zhejiang University of Technology, China	
1700-1715	15590: Indoor simultaneous localization and mapping based on fringe projection profilometry Yang ZHAO Nanjing University of Science and Technology, China	1650-1705	15626: High-throughput artifact-free slightly off-axis holographic imaging based on Fourier ptychographic reconstruction Qian SHEN Nanjing University of Science and Technology, China	1650-1705	15628: Microscopic Spectra Measurement Based on Coherence Scanning Interferometry Cheng CHEN Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China	
1715-1730	15568: Prototype of High-brightness Fringe Projector Using Line LED Device and Cylindrical Lens Array Motoharu FUJIGAKI University of Fuku, Japan	1705-1720	15460: Non-interferometric optical diffraction tomography with Fourier ptychography Shun ZHOU Nanjing University of Science and Technology, China	1705-1720	15631: Design of Point Cloud Data Structures for Efficient Processing of Large-Scale Point Clouds Yixuan WANG Beihang University, China	
1730-1745	15619: Theoretical Analysis and Discussion of The Measurement Methods in Fringe Projection Profilometry Shenzhen LVU Nanyang Technological University, Singapore					
1900 - 2130			Conference Dinner (Tien Court, Copthorne King's Hotel) nt: Holiday Inn Atrium Main Lobby (Level 1) @18:00hrs,	@18:15hrs		

	Thursday, 30 November 2023				
Time	PROGRAMME				
0800 - 1000 0900 - 1600		Registration (Level 4, Main Foyer) Exhibition (Changi Ballrooms, Level 4)			
0900 - 1000	Breakout 1 (Atrium Ballroom, Level 4)		Breakout 2 (Seletar 2, Level 3)		Breakout 3 (Seletar 3, Level 3)
(0900-1030)	SS12: Micro/Nano-Mechanical measurement and characterization by optical/spectral methods Session Chair: Wei HE	Imaging thro	SS9: ugh scattering media and non-line-of-sight imaging Session Chair: Jing HAN		GT12: Optical Measurement Methods Session Chair: Satoru YONEYAMA
0900-0920	15657: Uses of image features in digital image correlation for deformation measurement Thenyu JIANG South China University of Technology, China	0900-0920	15463: Fingertip OCT Image Acquisition and Enhancement Hairia WANG Zhejiang University of Technology, China	0900-0920	15559: Finite strain measurement and stress mapping for thin plate specimen using digital image correlation Satoru YONEYAMA Aoyama Gaham University, Japan
0920-0940	15652: New photomechanics methods in characterizing high-temperature fatigue crack growth behavior of nickel-based superalloys Wei HE Human University, China	0920-0940	15462: Exploring the range of optical memory effect by deep learning Wenqi HE Shenzhen University, China	0920-0935	15496: A Novel Method to Parallel Beam Generation for Roll Angle Measurement Shaohua MA Hefet University of Technology, China
0940-0955	15547: Measurement of geometric and mechanical parameters for fatigue microcrack based on tracking platform Xinxing SHAO Southeast University, China	0940-0955	15469: Modelling multiple scattering of polarized light with random matrices Niall BYRNES Nanyang Technological University, Singapore	0935-0950	15629: Extract focus variation data from coherence scanning interferometric measurement Jiayu LIU Shanghai Jiao Tong University, China
0955-1010	15540: Evolution of diffusion and induced stress and its effect on the lithium-storage performance of graphite electrode Prof Haimei XIE Tranjin University, China	0955-1010	15580: Multi-strategy close range 3-D shape measurement in turbid water based on structured light Nenqing LYU Nanjing University of Science and Technology, China	0950-1005	15524: Uncertainty analysis and optimization design of large- range laser triangulation displacement sensor applied to dynamic object Thuojiang NAN Shanghai Jiao Tong University, China
				1005-1020	Two-dimensional Angle Measurement with Sub-arcsecond Precision and MHz Acquisition Rate Using Heterodyne Interferometry with Optical Frequency Comb Chen LIN Tsimplus University, China
1030 - 1045			AM Break (Changi Ballrooms, Level 4)		
	Breakout 1 (Atrium Ballroom, Level 4)		Breakout 2 (Seletar 2, Level 3)		Breakout 3 (Seletar 3, Level 3)
(1045-1215)	SS8: High-precision optical measurement Session Chair: Xiangchao ZHANG		GT2: Biomedical Optics and Imaging Session Chair: Yongtao LIU GT3: Computer Vision Techniques Session Chair: Yongtao LIU		SS1: olumetric digital image correlation and their applications Session Chair: Zhemyu JIANG GTI0: Optical Component and System Simulation Session Chair: Zhemyu JIANG GTI5: Ultrafast Lasers and Applications Session Chair: Zhemyu JIANG
1045-1100	Smoothed-truncated-sine(STS) Pattern For Accuracy Improvement In Sinusoidal Fringe Projection Profilometry Zhihu L1 Tsinghua University, China	1045-1100	15656: Upconversion Multimodality super resolution microscopy Yongtao LIU Nanjing University of Science and Technology, China	1045-1105	15489: The theory and error analysis of crack propagation measurement for brittle materials based on virtual principal strain field Liuning GU Southeast University, China
1100-1115	15550: High-precision deflectometry: challenges and prospects Xiangchao ZHANG Fudan University, China	1100-1115	15457: Disordered Surface Plasmon Sensor for Scattering Enhanced Single Particle Detection Matthew TOREMAN Nanyang Technological University, Singapore	1105-1125	15576: Transformer-based deep learning for digital image correlation Zhenyu JIANG South China University of Technology, China
1115-1130	A Weighted Least Squares Algorithm For Wrapped Phase Retrieval In Simusoidal Fringe Projection Profilometry Zhihu L1 Tsinghua University, China	1115-1130	15566: Light-induced Acceleration of Biomolecular Recognitions for Proteins and Nanoscale Extracellular Vesicles Takuya IIDA Osaka Metropolitan University, Japan	1125-1140	15548: New Virtual Model as A Built-in Thin Lens Component of Optical Software to Balance Component Abertations Between Different Zoom Positions of Optical Lenses Chaobisten CHEN National Kaohsting University of Science and Technology, Taiwan
1130-1145	15581: Spectral mechanical investigation of the elastic interface between a MoS2/graphene heterostructure and a soft substrate Huadan XING Tianjin University, China	1130-1145	15586: Opto-acousto-fluidic microplatform for label-free high- throughput detection and sorting of microalgal cells Xiudong DUAN China University of Geosciences, Wuhan, China	1140-1155	15649: Versatile GHz bust-mode operation in high-power femosecond laser for industrial applications Delvidas ANDRIUKATIS EKSPLA, Luhuanta
		1145-1200	15641: Spinning disk confocal microscopy image stitching Mengjun LIU Advanced Remanufacturing and Technology Centre (ARTC), Singapore	1155-1210	15637: A simulation on quasi-phase-matched high-hamonic generation in gas-filled hollow core waveguide Qiandong RAN Singapore Institute of Manifacturing Technology, Singapore
1215 - 1330			Lunch/Posters on Display Exhibition Area (Changi Ballrooms, Level 4)		
(1000 1500)	Breakout 1 (Atrium Baliroom, Level 4)		Breakout 2 (Seletar 2, Level 3)		Breakout 3 (Seletar 3, Level 3)
(1330-1530)	SS7: High-accuracy optical deformation measurement of large engineering structures Session Chair: Xinxing SHAO, Qinwei MA	:	SS16: Single-pixel imaging and optical encoding Session Chair: Wen CHEN		GT12: Optical Measurement Methods Session Chair: Fujun YANG
1330-1350	15537: Bridge deflection measurement by drone aerial photography using the sampling moire method Shien RI National Institute of Advanced Industrial Science, Japan	1330-1350	15492: High-quality object reconstruction based on single-pixel imaging in highly dynamic scattering environments Yin XIAO The Hong Kong Polytechnic University, Hongkong, China	1330-1345	15515: Using three-dimensional electronic speckle pattern interferometry to study Quasi-static response of two-dimensional dense gamular packings to localized force Fujun YANG Southeast University, China
1350-1410	15624: Camera Array Based Super Spatio-temporal Resolution Videometrics For Deformation Measurement Of Large Structures Qinwel MA Beijing Institute of Technology, China	1350-1410	1560: High Speed Photoacoustic Microscopy based on Single Pixel Imaging Method Chengbo LIU Chinese Academy of Sciences, China	1345-1400	15614: Illumination Variation Robust Circular Target Based on Digital Image Correlation Method Shuai DONG Changsha University of Science and Technology, China
1410-1430	Adaptive finge projection moiré method for large structure morphology measurement Chen SUN Shanghai Jiao Tong University, China	1410-1425	15499: Optical pixel-to-plane encoding with neural network for ghost transmission through complex scattering media Yang PENG The Hong Kong Polytechnic University, Hongkong, China	1400-1415	15630: Compact ARS probe to measure roughness of smooth surfaces Zihan CHEN Shanghat Jao Tong University, China
1430-1450	Simulation and experimental analysis of the precision for the standardized calibration Cong LIU Nanjing University of Science and Technology, China	1425-1440	15501: Random Encoding with Modified Gerchberg-Saxton Algorithm for Accurate Ghost Transmission through Complex Scattering Media Yining HAO The Hong Kong Polytechnic University, Hongkong, China	1415-1430	15632: Absolute testing of optical flats using a minimum norm least squares solution Xiaoyue QIAO Shanghal Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China
1450-1510	15571: Full-field deformation measurement of large wing structure based on the multi-camera network with non-overlapping fields of view Yan LIU Shenzhen University, China	1440-1455	15506: Secured optical data transmission through dynamic scattering media using pixel-to-plane optical data encoding Yonggui CAO The Hong Kong Polytechnic University, Hongkong, China	1430-1445	15634: Quality Inspection and Assembly Sequence Optimization of Revolved Thin-walled Parts Based on Point Clouds Zhaoyuan MA Bethang University, China
1510-1525	15560: Target based multi-camera stereo digital image correlation: calibration and registration Zhuoyi VIN Southeast University, China	1455-1510	15464: Image-free feature tracking by Single-pixel Imaging Technologies Mingyang NI University of Science and Technology of China, China	1445-1500	15516: Direct strain measurement method based on the correlation of defocused laser speckle pattern Wenxin HU Shenzhen MSU-BIT University, China
				1500- 1515	15584: A Transmission-Reflection Photoelastic Combined Technique for Internal Stress Analysis of Inorganic Flexible Electronic Bilayer Structures Quanyan HE Tianying University, China
1530 - 1545	Breakout 1		PM Break Exhibition Area (Changi Ballrooms, Level 4) Breakout 2		Breakout 3
(1545-1745)	(Atrium Baliroom, Level 4) SS13: Optical dynamic measurement Session Chair: Yu FU		(Seletar 2, Level 3) SS16: Single-pixel imaging and optical encoding Session Chair: Wen CHEN GTI: 3D Image Acquisition and Display		(Scletar 3, Level 3) SS4: Avances in Moiré method and its applications Session Chair. Hongye ZHANG SS17: dt thermography and structural health monitoring
1545-1605	15623: Research and application of optical heterodyne interferometry with high precision Wensi ZHANG Chinese Academy of Sciences, Aerospace Information Research Institute Chine	1545-1605	Session Chair: Wen CHEN Some Explorations for High-speed Fringe Projection Profilometry Yongkai YIN Shandong University, China	1545-1605	Session Chair: Hongye ZHANG 15585: TEM Moir method and its application Hongye ZHANG Beijing Forestry University, China
1605-1625	Research Institute, China 15673: Flexible and high-intensity photoacoustic transducer for contact-free laser ultrasonic inspection Guo SHIFENG Shenzhen Institute of Advanced Technology, China	1605-1620	15517: Image-free multi-object tracking based on multi-channel single-pixel imaging system Yu CAI University of Science and Technology of China ,China	1605-1625	15530: Microscale strain distribution measurement before and after crack and delamination occurrence in CFRP laminates by multiplication sampling moire method Xinyun XIE Bethang University, China
1625-1645	15646: Full-field vibration measurement based on a combination of laser and imaging technology Yu FU Shenzhen University, China	1620-1635	15611: An optical image encryption method based on Fourier single-pixel imaging and iterated phase retrieval algorithm Tianyu ZENG Xi 'an University of Technology ,China	1625-1640	15567: Sampling moiré method and its application in 2D/3D deformation measurement Ru CHEN Tsinghua university, China
1645-1700	15543: Method for measuring full-field vibration of rotating components using laser and image fusion Zeren GAO Shenzhen University, China	1635-1650	15530: Hardware-based Fusion Sensing System for Lidar and Imaging Yuanzu WANG Tsinghua University, China	1640-1655	15.487: Infrared colorimetric temperature measurement based on a two-band metalens Zhendong LUO University of Science and Technology of China, China
1700-1715	15476: Modeling of Mechanoluminescent Strain Sensing Mechanisms and Their Application to Vibration Modal Measurements Bing CHEN Shenzhen University, China	1650-1705	15575: Microscopic fringe projection and applications in high-accuracy 3D measurements Yan HU Nanjing University of Science and Technology, China	1655-1710	15653: Non-destructive Evaluation using Continuous Laser-Line Scanning Thermography with an Improved Data Processing Algorithm Li CHAOVI Jiangsu University, China
1715-1730	15482: Improved Speckle Interferometry Method Based On High- Speed Camera And Laser Doppler vibrometers Ruyue ZHANG University of Science and Technology of China, China			1710-1725	15512: Online Detection Method for Additive Manufacturing Printing Based on Near-Infrared Dual-wavelength Thermometry Wei FENG Beijing Institute of Technology, China
				1725-1740	15639: A method for identifying precursors information on infrared radiation of instability and failure in wood Jian ZHAO Beijing Forestry University, China

Time	PROGRAMME
(0930 - 1430)	Site Visit to d'Optron Pte Ltd and The Photonics Institute, Nanyang Technological University Registration of Attendance @ ImageX/d'Optron Booth No. T6 Exhibition Area, Changi Ballrooms, Level 4 Tuesday – Wednesday, 28 – 29 November 2023, 0930 – 1630 Hours
0930	Site Visit to d'Optron Pte Ltd No transportation Provided 8 Cleantech Loop, Block E, #06-72 Cleantech 3, Singapore 637145
1000	Contributions of Holography Dr Peter De GROOT Zygo Corporation, United States
1100	Site Visit of d'Optron Pte Ltd
1200	Coach Departs for Nanyang Technological University Lunch at NTU Canteen (Free and Easy and on Pax Account)
1330	Tour of The Photonics Institute, NanyangTechnological University
1430	End of Programme