

Agenda

Time and date shows here refers to China Standard Time (GMT+8).

Aug 27th Registration	
14:00-18:00	Meeting platform test Zoom ID: 810 8220 0233 Password: ICOIM
Aug 28th Plenary Session Zoom Room ID: 845 1942 7408, Password: ICOIM Chair: Shuming Yang	
8:45-9:00	Online Registration
9:00-9:15	Opening ceremony Shuming Yang
9:15-10:00	Super-resolution optical imaging from STED to MINFLUX Min Gu, Institute of Photonic Chips University of Shanghai for Science and Technology, Shanghai, China
10:00-10:45	Optical Microsphere Nanoscope Working in Non-Contact Mode Minghui Hong, Department of Electrical and Computer Engineering, National University of Singapore, Singapore
10:45-10:50	Photography
10:50-11:35	Metrology and Inspection for IC manufacturing: State-of-the-art, challenges, and future trends Shiyuan Liu, Huazhong University of Science and Technology, China
11:35-12:20	Compressed Ultrafast Spectral-Temporal Photography Feng Chen, Xi'an Jiaotong University, China
12:20-12:45	Networking

Aug 28th Parallel Session	
Zoom Room ID: 847 0471 9172, Password: ICOIM	
Chair: Benny Cheung	
13:30-13:55	Femtosecond laser microfabrication towards high efficiency, new materials and advanced devices Dong Wu, University of Science and Technology of China, China
13:55-14:20	Planar super-oscillation lenses (SOLs): practical considerations and applications Yiting Yu, Northwestern Polytechnical University, China
14:20-14:45	Laser applications for subsurface characterization and modification Jiawang Yan, Keio University, Japan
14:45-15:10	Tailoring Light in Laser Processing Precision Mould and Die Xichun Luo, Centre of Precision Manufacturing, University of Strathclyde, UK
15:10-15:25	Networking
	Oral Presentation
15:25-18:30	A Structure Based Speckle Filtering Method for Ocean SAR Images MVBI22QRWX- CHENG pu, Navy Submarine Academy, China
	Laser high-speed shadow photography and sequential image processing technology for projectile penetration studies MVBI22PLLW-Ce Sun, Xi'an Institute of Optics and Precision Mechanics, CAS, China
	Experimental study on the influence of thickener type on the reflux characteristics of grease under starved lubrication MVBI22ZRSI-Zhijie Lin, Shanghai University, China
	Investigation on the Influence of Macro-micro Grating Parameters on Diffraction Characteristics through FDTD Simulation MVBI22AKOD- Guoyong Ye, Xi'an Jiaotong University, China

<p>15:25-18:30</p>	<p>Study on Station Planning of Dual Lugs Hole Measurement by Laser Tracker MVBI22VCJF -Zhou Fan, Chengdu, China</p> <p>Research and Application of Aero-engine Interface Measurement Technology MVBI22NTKF- Shen YingDong, Chengdu, China</p> <p>Real-time wavelength compensation of laser diode interferometer MVBI22FSBD- Yindi Cai, Dalian University of Technology, China</p> <p>Fast Stereo Matching Method Based on Two-step AD-Census Fusion MVBI22TKZL- Yangfan Sun, Zhengzhou University of Light Industry, China</p> <p>Research on Edge Extraction and Detection Method of Tube Sheet Holes Based on Local Adaptive Threshold and Ellipse Band Shrinkage Approximation MVBI22BPCR- Qiongqiong Duan, Xi'an Jiaotong University, China</p> <p>Optical design of a backlight illumination system MVBI22JCDI- Qin Liu, Henan Academy of Special Optics Ltd., China</p> <p>Synthesis of HgTe Quantum Dots and Its Application in Broadband Photodetection MVBI22ETWD-Shuai Wen, Xi'an Technological University, China</p>
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Aug 28th Parallel Session Zoom Room ID: 884 6853 1912, Password: ICOIM Chair: Feng Gao	
13:30-13:55	Light manipulation and integrated imaging based on metasurfaces Tao Li, Nanjing University, China
13:55-14:20	Research Advances in Multiple-Measurement Technology Using Nanometer Time-grating Sensors Xiaokang Liu, Chongqing University of Technology, China
14:20-14:45	Monitoring and detection of defects in additive manufacturing based on multi-sensor and data fusion technology Lingbao Kong, Fudan University, China
14:45-15:00	Networking
15:00-18:30	Oral Presentation Binary fringe pattern in infrared phase measuring deflectometry MVBI22AKRG- Zonghua Zhang, Hebei University of Technology, China Research on a measurement method of precision linear displacement based on single-alternating light field MVBI22DBVB- Min Fu, Chongqing University of Technology, China Autostereoscopic Measurement System for Rapid 3D Inspection of Wire Bonding EJJZMMAMRXZ- Sanshan GAO, The Hong Kong Polytechnic University, Hong Kong, China Creating Seed Coat Catalog Using Spectral Domain Optical Coherence Tomography EJJZMMAUPYC-Xinhua Li, Department of Electrical Engineering and Electronics, University of Liverpool, UK EfficientPillarNet: A Fast Deep Network for Semantic Segmentation of Large-scale Point Clouds from Lidar MVBI22WQHL- Shusheng LI, Xi'an Jiaotong University, China A Dense Three-Dimensional Point Flow Measurement Based on Triple Line-Scan Cameras MVBI22YEXI- Linghui Yang, Tianjin University, China

<p>15:00-18:30</p>	<p>Convolutional Neural Networks' Applications in Automatic Target Recognition for Synthetic Aperture Images EJZMMAQFLP-Wenting Yu, Apartment of Electronic Technology Naval University of Engineering, Wuhan, China</p> <p>Experimental Research on the Influence of Glass Spacing on Digital Image Correlation in Measuring Optical Path MVBI22SVFA-Xiaojun Tang, Beijing Spacecrafts China Academy of Space Technology, China</p> <p>Blast furnace chute visual detection based on mechanism model MVBI22UXDC, MVBI22FFOJ, MVBI22LHKA- Shuseng Cheng, University of Science and Technology Beijing, China</p> <p>An Optical Periscope Technique for Measuring Cryogenic Liquid Level Height in Adverse Environment MVBI22OFAL-Ping Fang, Beijing Institute of Technology, China</p> <p>High-Speed and Accurate Method for the Gear Surface Integrity Detection Based on Visual Imaging MVBI22VRRL- Qian Liu, Xi'an University of Technology, China</p> <p>Form Recognition Based on Lightweight U-Net and Tesseract after Multi-level Retraining MVBI22LUUR- Gang Li, Xi'an Jiaotong University, China</p> <p>Research on OCT Imaging Law of Frozen Meat Applied with Electric Field During Storage MVBI22HVRD- Lu Zhang, Xi'an Jiaotong University, State Key Laboratory for Manufacturing, System Engineering, China</p>
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Aug 29th Parallel Session Zoom Room ID: 860 4341 9494, Password: ICOIM Chair: Liangcai Cao	
8:00-8:25	High-precision in-situ measurement with deflectometry Xiangchao Zhang, Fudan University, China
8:25-8:50	Fiducial Aided Calibration and Positioning for Precision Manufacture of Optical Freeform Surfaces Benny Cheung, The Hong Kong Polytechnic University, Hong Kong, China
8:50-9:15	Ring-Core Optical Fibers for OAM Modes Yang Yue, Nankai University, China
9:15-9:30	Networking
9:30-12:00	<p style="text-align: center;">Oral Presentation</p> <p>Two-frame phase extraction technology based on vector normalization with single filter MVBI22VVBZ- Hangying Zhang, Tsinghua University, China</p> <p>Scintillator study for improving material separation ability in x-rays computed tomography imaging MVBI22ZGRU- Xia Xiaoqin, The State Key Laboratory of Precision Measuring Technology and Instruments Tianjin University, China</p> <p>Fast Positioning of Zero Path Difference of White Light Interference Based on Image Processing MVBI22VEEH- Yiyong Liang, Zhejiang University, China</p> <p>Measuring the light environment of ship bridge based on CCD camera MVBI22JYNC- Xingfen Qin, Dalian Maritime University, China</p> <p>An Accelerated Algorithm for 3D Reconstruction of Groove Structure Based on Parallel Light and White Light Interference MVBI22IOEP- Kexin Zhang, Zhejiang University, China</p> <p>Discussion of cross-axis isolation in vector atomic magnetometry via longitudinal field modulation MVBI22KMCF- Yingying Li, National Innovation Institute of Defense Technology, AMS, China</p> <p>A Neural Network-based Method for Fast Angle Calibration of MEMS LiDAR MVBI22NEJW- Dayong Lin, Beijing Institute of Control Engineering, China</p> <p>Distributed design of wind tunnel temperature test system based on CAN bus MVBI22NXRO- Zhaoxin Yang, China Aerodynamics Research and Development Center, China</p> <p>A Novel Lightweight Infrared and Visible Image Fusion Algorithm MVBI22YDUH- Chuanyun Wang, Shenyang Aerospace University, China</p>

Aug 29th Parallel Session Zoom Room ID: 833 2718 0785, Password: ICOIM Chair: Huigao Duan	
8:00-8:25	Image restoration techniques and applications based on scattering suppression Ping Yang, Chinese Academy of Sciences, China
8:25-8:50	Topology optimization for micro/nano optics Yongbo Deng, Chinese Academy of Sciences, China
8:50-9:15	Chromatic confocal measurement method and algorithms Tao Liu, Xi'an Jiaotong University, China
9:15-9:30	Networking
9:30-12:00	Oral Presentation An object recognition method based on deep learning MVBI22NHSV-Yingni Duan, Xi'an university, China 3D Super-resolution Optical Imaging Using Deep Image Prior EJZMMAHLWZ- Ruoxin Wang, The Hong Kong Polytechnic University, Hong Kong, China An object recognition method based on deep learning MVBI22NHSV-Yingni Duan, Xi'an University, China Design of Intelligent Robot for Bank Early Warning and Security Based on Robot Vision MVBI22PSBY- Yan Ren, Henan Forestry Vocational College, China A fast point cloud precision registration method based on spatial grid division MVBI22DFWB-FaHeng Liu, Xi'an Jiaotong University, China Design & Optimization of F-Theta Focusing Lens Based on ZEMAX MVBI22EEJI-Hong Zhu, Chongqing University of Technology, China A Simulation Algorithm of The Space-based Optical Star Map with Any Exposure Time MVBI22MHVW- Yupeng Wang, National Key Laboratory of Science and Technology on ATR National University of Defense Technology, China A Simple Optical Fiber-coupled Chromatic Confocal 3D Measurement System MVBI22JIVB- Tao Liu, Xi'an Jiaotong University, China A Phased Landmark Navigation Method for Lunar Exploration MVBI22HHTD- Anran Wang, Beijing Institute of Control Engineering, China Analysis of effects of retroreflector motion errors on measurement accuracy of a homodyne interferometer MVBI22CAZK- Yindi Cai, Dalian University of Technology, China

Aug 29th Zoom Room ID: 852 0078 9374, Password: ICOIM Chair: Zonghua Zhang	
13:30-13:55	Lensless imaging using compressive sensing and deep learning Liangcai Cao, Tsinghua University, China
13:55-14:20	Dual-comb distance measurement and its applications Guanhao Wu, Tsinghua University, China
14:20-14:45	In-situ inspection system for electron beam additive manufacturing based on phase measurement profilometry Feng Gao, University of Huddersfield, UK
14:45-15:00	Networking
15:00-17:00	Oral Presentation Research on Inversion Law of Label-free Two-dimensional Light Scattering Cell Size Based on Gray-Level Co-occurrence Matrix MVBI22LTK- Lu Zhang, Xi'an Jiaotong University, China High Spatial Resolution Reconstruction of Underwater Acoustic Signal from Drawing Tower Grating with Long Cavity Based on GA-BP MVBI22IYEN- Hanjie Liu, Wuhan University of Technology, China Characterizing static aberration in reflective liquid crystal spatial light modulators (LC-SLM) using random phase shifting interferometry MVBI22SLSB- Zixin Zhao, Xi'an Jiaotong University, China A dual-comb ranging system without aliasing based on free-running fiber lasers--- Ruilin Jiang- Tsinghua University, China A Dense Three-Dimensional Point Flow Measurement Based on Triple Line-Scan Cameras--- Ruiying Liao- Tianjin University, China A Novel High-Speed Fringe Projection Profilometry Calibration Method Using a Checkerboard--- Jian Wang- Huazhong University of Science and Technology, China Characteristics of the circular fringe projection profilometry--- Chunwei Zhang- Xi'an Jiaotong University, China Alleviating the defocusing problem in monoscopic phase measuring deflectometry system--- Yunuo Chen- Fudan University, China
17:00-17:30	Closing ceremony / Award announcement

Aug 28th-29th Poster Session

Show on Conference Website and Zoom

**Zoom:
12:00-13:20**

Nonlinearity suppression method for optical frequency scanning based on the Phenomenological model

MVBI22BPIJ-Zhongwen Deng, 1. Xidian University, China 2. Xi'an Jiaotong University, China (Poster)

Ultrasonic inspection of aircraft secondary co-curing skin Recognition method of defect signal

MVBI22CGYJ- He Xiao, China Aircraft Strength Research Institute, China (Poster)

Research on Microbial Detection Technology Based on Femtosecond Laser Technology Raman Spectroscopy

MVBI22EWHJ- TIAN Hu-Qiang, Inner Mongolia University, China (Poster)

Measurement of Elastic Constants of Additive Manufactured Ti-6Al-4V by Non-contact Multi-mode Laser Ultrasonic System

MVBI22ZLDX- Zhenlong Zhang, Xi'an Jiaotong University, China (Poster)

Test system of laser ultrasonic directional transmission channel characteristics

MVBI22QKFH- Peipei Zhang, Xi'an Traffic Engineering Institute, China (Poster)

Design of test system for gun stabilization accuracy

MVBI22IVKZ- Zelin Sun, 63876 Unit of People's Liberation Army of China, China (Poster)

Design of high quantum efficiency photodetector based on graphene/silicon nanometer truncated cone array

MVBI22BQUX- Jijie Zhao, Xi'an Technological University, China (Poster)

Building Damage Detection Method Based on Normal Vector Computation of Airborne Point Cloud Data

MVBI22XMDI- Shusong Huang, China Centre for Resources Satellite Data and Application, China (Poster)

Phase extraction of a set of Phase-shifting patterns reduced basis decomposition

MVBI22VKRV- Hubin Du, Xi'an Technological University, China (Poster)

A Dynamic Following-based Binocular Vision Method for the Deformation Measurement of Motion Structures

MVBI22TYXM-Xiaojun Tang, Beijing Spacecrafts China Academy of Space Technology, China (Poster)

Quantitative relationship study between spatial heterogeneity and uncertainty of high-resolution pixel scale based on spectral measurement simulation

MVBI22HQWR- Gao Hailiang, The Aerospace Information Research Institute Chinese Academy of Sciences, China (Poster)

<p>Zoom: 12:00-13:20</p>	<p>Angle-resolved scatterometer for nanostructure metrology MVBI22RHKE- Hao Jiang, Huazhong University of Science and Technology, China (Poster)</p> <p>Volumetric measurement of flame using CTC at sparse-projection condition and fast 3-D contour rebuilding MVBI22TIRX- Yanting Cheng, China Datang Corporation Science and Technology Research Institute, China (Poster)</p> <p>Design of readout circuit chip for medium wave 640×512-25um IRFPA MVBI22AFBL-QiLiu, National ASIC System Engineering Research Center Southeast University, China (Poster)</p> <p>Reciprocal optical voltage sensor with rotating double-crystal structure based on Pockels effect MVBI22SYVA- Zhi Li, North China Electric Power University, China (Poster)</p> <p>Active Millimeter Wave Imaging based on CGC Lens MVBI22CUBE-Jingduo Cui, Beijing Normal University, China (Poster)</p> <p>Calibration method for measuring angle device with CCD MVBI22LGMT- Zelin Sun, 63876 Unit of People's Liberation Army of China, China (Poster)</p> <p>Design of the Telecentric Lens for Dual Side Imaging of the Small Size Particles with Equal Optical Path MVBI22CVER- Xinsen Wang, Research Center for Photonics Technology, Quanzhou Normal University, China (Poster)</p> <p>The measurement of the center of mass and the optical center in a freely falling body of absolute gravimetry MVBI22ENAS- Lv Kang, Wuhan University of Technology, China (Poster)</p> <p>Characterization of tissue texture with Mueller matrix parameters MVBI22VSHR- Yongtai Chen, Dalian University of Technology, China (Poster)</p> <p>Analysis of the Anti-magnetic Interference Characteristics of the Stacked Magneto-optical Current Sensor and Error Compensation Method MVBI22MRIG- Xiaojun Zhao, North China Electric Power University, China (Poster)</p> <p>FPGA-based Detection Module for the Chromatic Confocal Measurement Sensor MVBI22SIBT- Tao Liu, Xi'an Jiaotong University, China (Poster)</p> <p>Fabrication of large-sized stitching computer generated hologram (CGH) MVBI22PBWR- Yingying Bai, Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China (Poster)</p>
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<p>Zoom: 12:00-13:20</p>	<p>Research on the measurement of micro display luminance MVBI22UVPM-WANG Shaoshui, The 41st Research Institute of CETC, China (Poster)</p> <p>Image Reconstruction of Photonics Integrated Interference Imaging System: stabilized CLEAN methods MVBI22UEKB- Tianbao Chen, Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China (Poster)</p> <p>Concentric ring structure on the front surface of fused silica induced by a focused femtosecond pulse MVBI22UNZV- Hao Jiang, Huazhong University of Science and Technology, China (Poster)</p> <p>Error analysis for repeatability enhancement of a dual-rotation Muller matrix ellipsometer MVBI22MNFS- Zhou Jiang, Huazhong University of Science and Technology, China (Poster)</p> <p>Impact Analysis of spectral response on the measurement of infrared radiation characteristics MVBI22OEYP- Lijun Ma, 63615 army, China (Poster)</p> <p>Towards a Novel Phase Unwrapping Model for Three Dimensional Measurement MVBI22EUVN- Yuanping Xu, Chengdu University of Information Technology, China</p> <p>Analysis of Lidar Technology Development Based on Autonomous Driving Competition MVBI22OWWX- FengHua Yang, Jiangnan University, China (Poster)</p> <p>Error analysis of a photoelastic-modulated Mueller matrix ellipsometer EJJZMMABDQW- Song Zhang, Huazhong University of Science and Technology, China (Poster)</p> <p>Speckle reduction using deep learning Shuo Liu- Huazhong University of Science and Technology, China (Poster)</p>
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