

# Agenda

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

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

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

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

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

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

<p><b>Aug 29<sup>th</sup></b></p> <p><b>Zoom Room ID: 852 0078 9374, Password: ICOIM</b></p> <p><b>Chair: Zonghua Zhang</b></p>	
<b>13:30-13:55</b>	<p><b>Lensless imaging using compressive sensing and deep learning</b> Liangcai Cao, Tsinghua University, China</p>
<b>13:55-14:20</b>	<p><b>Dual-comb distance measurement and its applications</b> Guanhao Wu, Tsinghua University, China</p>
<b>14:20-14:45</b>	<p><b>In-situ inspection system for electron beam additive manufacturing based on phase measurement profilometry</b> Feng Gao, University of Huddersfield, UK</p>
<b>14:45-15:00</b>	Networking
<b>15:00-17:00</b>	<p style="text-align: center;"><b>Oral Presentation</b></p> <p><b>Research on Inversion Law of Label-free Two-dimensional Light Scattering Cell Size Based on Gray-Level Co-occurrence Matrix</b> MVBI22LTTK -Lu Zhang, Xi'an Jiaotong University, China</p> <p><b>High Spatial Resolution Reconstruction of Underwater Acoustic Signal from Drawing Tower Grating with Long Cavity Based on GA-BP</b> MVBI22IYEN- Hanjie Liu, Wuhan University of Technology, China</p> <p><b>Characterizing static aberration in reflective liquid crystal spatial light modulators (LC-SLM) using random phase shifting interferometry</b> MVBI22SLSB- Zixin Zhao, Xi'an Jiaotong University, China</p> <p><b>A dual-comb ranging system without aliasing based on free-running fiber lasers---</b> Ruilin Jiang- Tsinghua University, China</p> <p><b>A Dense Three-Dimensional Point Flow Measurement Based on Triple Line-Scan Cameras---</b> Ruiying Liao- Tianjin University, China</p> <p><b>A Novel High-Speed Fringe Projection Profilometry Calibration Method Using a Checkerboard---</b> Jian Wang- Huazhong University of Science and Technology, China</p> <p><b>Characteristics of the circular fringe projection profilometry---</b> Chunwei Zhang- Xi'an Jiaotong University, China</p> <p><b>Alleviating the defocusing problem in monoscopic phase measuring deflectometry system---</b> Yunuo Chen- Fudan University, China</p>
<b>17:00-17:30</b>	Closing ceremony / Award announcement



## Aug 28<sup>th</sup>-29<sup>th</sup> 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><b>Zoom:</b> <b>12:00-13:20</b></p>	<p><b>Angle-resolved scatterometer for nanostructure metrology</b> MVBI22RHKE- Hao Jiang, Huazhong University of Science and Technology, China (Poster)</p> <p><b>Volumetric measurement of flame using CTC at sparse-projection condition and fast 3-D contour rebuilding</b> MVBI22TIRX- Yanting Cheng, China Datang Corporation Science and Technology Research Institute, China (Poster)</p> <p><b>Design of readout circuit chip for medium wave <math>640 \times 512</math>-25um IRFPA</b> MVBI22AFBL-QiLiu, National ASIC System Engineering Research Center Southeast University, China (Poster)</p> <p><b>Reciprocal optical voltage sensor with rotating double-crystal structure based on Pockels effect</b> MVBI22SYVA- Zhi Li, North China Electric Power University, China (Poster)</p> <p><b>Active Millimeter Wave Imaging based on CGC Lens</b> MVBI22CUBE-Jingduo Cui, Beijing Normal University, China (Poster)</p> <p><b>Calibration method for measuring angle device with CCD</b> MVBI22LGMT- Zelin Sun, 63876 Unit of People's Liberation Army of China, China (Poster)</p> <p><b>Design of the Telecentric Lens for Dual Side Imaging of the Small Size Particles with Equal Optical Path</b> MVBI22CVER- Xinsen Wang, Research Center for Photonics Technology, Quanzhou Normal University, China (Poster)</p> <p><b>The measurement of the center of mass and the optical center in a freely falling body of absolute gravimetry</b> MVBI22ENAS- Lv Kang, Wuhan University of Technology, China (Poster)</p> <p><b>Characterization of tissue texture with Mueller matrix parameters</b> MVBI22VSHR- Yongtai Chen, Dalian University of Technology, China (Poster)</p> <p><b>Analysis of the Anti-magnetic Interference Characteristics of the Stacked Magneto-optical Current Sensor and Error Compensation Method</b> MVBI22MRIG- Xiaojun Zhao, North China Electric Power University, China (Poster)</p> <p><b>FPGA-based Detection Module for the Chromatic Confocal Measurement Sensor</b> MVBI22SIBT- Tao Liu, Xi'an Jiaotong University, China (Poster)</p> <p><b>Fabrication of large-sized stitching computer generated hologram (CGH)</b> MVBI22PBWR- Yingying Bai, Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China (Poster)</p>
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<p><b>Zoom: 12:00-13:20</b></p>	<p><b>Research on the measurement of micro display luminance</b> <a href="#">MVBI22UVPM-WANG Shaoshui, The 41st Research Institute of CETC, China (Poster)</a></p> <p><b>Image Reconstruction of Photonics Integrated Interference Imaging System: stablized CLEAN methods</b> <a href="#">MVBI22UEKB- Tianbao Chen, Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China (Poster)</a></p> <p><b>Concentric ring structure on the front surface of fused silica induced by a focused femtosecond pulse</b> <a href="#">MVBI22UNZV- Hao Jiang, Huazhong University of Science and Technology, China (Poster)</a></p> <p><b>Error analysis for repeatability enhancement of a dual-rotation Muller matrix ellipsometer</b> <a href="#">MVBI22MNFS- Zhou Jiang, Huazhong University of Science and Technology, China (Poster)</a></p> <p><b>Impact Analysis of spectral response on the measurement of infrared radiation characteristics</b> <a href="#">MVBI22OEYP- Lijun Ma, 63615 army, China (Poster)</a></p> <p><b>Towards a Novel Phase Unwrapping Model for Three Dimensional Measurement</b> <a href="#">MVBI22EUVN- Yuanping Xu, Chengdu University of Information Technology, China (Poster)</a></p> <p><b>Analysis of Lidar Technology Development Based on Autonomous Driving Competition</b> <a href="#">MVBI22OWWX- FengHua Yang, Jiangnan University, China (Poster)</a></p> <p><b>Error analysis of a photoelastic-modulated Mueller matrix ellipsometer</b> <a href="#">EJJZMMABDQW- Song Zhang, Huazhong University of Science and Technology, China (Poster)</a></p> <p><b>Speckle reduction using deep learning</b> <a href="#">Shuo Liu- Huazhong University of Science and Technology, China (Poster)</a></p>
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