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A flexible new technique for camera calibration

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621	In-line measurement and characterization in glass bead-filled polypropylene extrusion based on machine vision.	
620	High-Precision Dynamic Traffic Noise Mapping Based on Road Surveillance Video. 2022, 11, 441	O
619	Imagery Synthesis for Drone Celestial Navigation Simulation. <b>2022</b> , 6, 207	1
618	Fiber position measurement method in LAMOST based on external planar target. 2022, 61,	O
617	A Convolutional Neural-Network-Based Training Model to Estimate Actual Distance of Persons in Continuous Images. <b>2022</b> , 22, 5743	O
616	Future Developments of Light-field-Based Measurements. <b>2023</b> , 165-207	
615	Dissecting Latency in 360° Video Camera Sensing Systems. <b>2022</b> , 22, 6001	1

614	A novel fringe projection profilometry method with high efficiency, precision and convenience: theoretical analysis and development.	0
613	Automatic Detection of Chip Pin Defect in Semiconductor Assembly Using Vision Measurement. <b>2022</b> , 22, 231-240	1
612	Three-dimensional reconstruction from fringe projection system through a planar transparent medium.	1
611	Distance Measurement for Object Detection for Automotive Applications Using 3D Density-Based Clustering. <b>2022</b> , 207-226	
610	A novel encoding element for robust pose estimation using planar fiducials. 9,	
609	Automatic Top-View Transformation and Image Stitching of In-Vehicle Smartphone Camera for Road Crack Evaluation. <b>2023</b> , 567-579	
608	Real and Pseudo Pedestrian Detection Method with CA-YOLOv5s Based on Stereo Image Fusion. <b>2022</b> , 24, 1091	
607	Auto calibration of multi-camera system for human pose estimation.	
606	Real-time 3D measurement of freeform surfaces by dynamic deflectometry based on diagonal spatial carrier-frequency pattern projection. <b>2022</b> , 200, 111684	1
605	Research on the Evolution Law Physical Short Fatigue Crack and Tip Deformation Fields during Crack Closure Process of the Q&P Steel. <b>2022</b> , 15, 5769	
604	5D-fusion imaging for surface shape, polarization, and hyperspectral measurement.	
603	Experimental study on flat plate skin friction control by porous media based on global fluorescent oil film measurement technology.	
602	Build a Multi-Sensor Dataset for Autonomous Driving in Adverse Weather Conditions. <b>2022</b> , 17, 245-254	
601	Advanced pavement distress recognition and 3D reconstruction by using GA-DenseNet and binocular stereo vision. <b>2022</b> , 201, 111760	1
600	Automatic measuring shrimp body length using CNN and an underwater imaging system. <b>2022</b> , 221, 224-235	1
599	Enhancing Single Thermal Image Depth Estimation via Multi-Channel Remapping for Thermal Images. <b>2022</b> , 17, 314-321	
598	Reinforcement learning-based calibration method for cameras with large FOV. <b>2022</b> , 202, 111732	0
597	Learning-Based Distortion Correction and Feature Detection for High Precision and Robust Camera Calibration. <b>2022</b> , 7, 10470-10477	

596	Review of optical measurement techniques for measuring three-dimensional topography of inner-wall-shaped parts. <b>2022</b> , 202, 111794	2
595	Adaptive Autonomous Navigation of Multiple Optoelectronic Microrobots in Dynamic Environments. <b>2022</b> , 7, 11102-11109	
594	Extrinsic Camera Calibration From a Moving Person. <b>2022</b> , 7, 10344-10351	1
593	High-precision visual imaging model and calibration method for multi-depth-of-field targets. <b>2022</b> , 268, 169788	
592	Performance of a scintillation imaging system for relative dosimetry in pencil beam scanning proton therapy. <b>2022</b> , 1040, 167293	
591	Vision occlusion solution for line-structured light measurement system based on a plane mirror. <b>2022</b> , 268, 169767	
590	Flexible and stone pavements distress detection and measurement by deep learning and low-cost detection devices. <b>2022</b> , 141, 106714	1
589	Low-cost camera based sense and avoid in unmanned aerial vehicles: Sensing and control methods. <b>2022</b> , 87, 102876	
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587	Target-free 3D tiny structural vibration measurement based on deep learning and motion magnification. <b>2022</b> , 538, 117244	O
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585	Digital image correlation-aided non-destructive buckling load prediction of cylindrical shells. <b>2022</b> , 254-255, 111941	1
584	FPGA-based multi-view stereo system with flexible measurement setup. <b>2022</b> , 24, 100425	О
583	Fruit detection and positioning technology for a Camellia oleifera C. Abel orchard based on improved YOLOv4-tiny model and binocular stereo vision. <b>2023</b> , 211, 118573	11
582	A novel hierarchical iterative hypothesis strategy for intrinsic parameters calibration of laser structured-light weld vision sensor. <b>2023</b> , 160, 107255	О
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580	Using Cameras for Precise Measurement of Two-Dimensional Plant Features: CASS. <b>2022</b> , 87-94	О
579	A Practical Micro Fringe Projection Profilometry for 3-D Automated Optical Inspection. <b>2022</b> , 71, 1-13	O

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577	Easy and Flexible Calibration Approach for Deflectometry-based VR Eye-Tracking systems. <b>2022</b> ,	Ο
576	Mobile Device Camera Calibration Using Building Images and Onboard Accelerometer. <b>2022</b> , 71, 1-8	0
575	Sporthesia: Augmenting Sports Videos Using Natural Language. <b>2022</b> , 1-11	O
574	Towards Accurate Reconstruction of 3D Scene Shape from A Single Monocular Image. <b>2022</b> , 1-21	0
573	Shadow Extraction Method Based on Multi-Information Fusion and Discrete Wavelet Transform. <b>2022</b> , 71, 1-15	O
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571	A Real-Time Robotic System for Sewing Personalized Stent Grafts. <b>2022</b> , 837-858	O
570	Towards Multi-modal Self-supervised Video and Ultrasound Pose Estimation for Laparoscopic Liver Surgery. <b>2022</b> , 183-192	O
569	A Smartphone-Based Six-DOF Measurement Method With Marker Detector. <b>2022</b> , 71, 1-14	O
568	Improved Kernel Correlation Filter Based Moving Target Tracking for Robot Grasping. 2022, 71, 1-12	O
567	Immediate Vehicle Movement Estimation and 3D Reconstruction for Mono Cameras by Utilizing Epipolar Geometry and Direction Prior. <b>2022</b> , 1-11	O
566	Fast Intra-Frame Video Splicing for Occlusion Removal in Diminished Reality. 2022, 111-134	0
565	Scalable Building Height Estimation from Street Scene Images. 2022, 1-1	O
564	Phenotypic Parameters Estimation of Plants Using Deep Learning-Based 3-D Reconstruction From Single RGB Image. <b>2022</b> , 19, 1-5	0
563	Novel precision vision measurement method between area-array imaging and linear-array imaging especially for dynamic objects. <b>2022</b> , 1-1	O
562	Two Novel Methods for 'Multiple Kinect v2 Sensor Calibration. <b>2022</b> , 403-414	О
561	Closed-Form Solution of Principal Line for Camera Calibration based on Orthogonal Vanishing Points. <b>2022</b> , 1-1	O

560	The Architecture, Methodology and Implementation of STEP-NC Compliant Closed-Loop Robot Machining System. <b>2022</b> , 10, 100408-100425	1
559	Multimodal Material Segmentation. 2022,	1
558	Input-level Inductive Biases for 3D Reconstruction. 2022,	1
557	Unsupervised Homography Estimation with Coplanarity-Aware GAN. 2022,	1
556	Sports Camera Pose Refinement Using an Evolution Strategy. <b>2022</b> ,	0
555	Vision Localization and Compensation Technology for Clamping Error in Faucet Robotic Grinding. <b>2022</b> ,	O
554	Vision-based spatial damage localization method for autonomous robotic laser cladding repair processes. <b>2023</b> , 80, 102452	O
553	Single feature constrained manual registration method for Augmented Reality applications in gynecological laparoscopic interventions. <b>2022</b> ,	O
552	3D Geographic Trajectories Generation and Visualization of Dynamic Objects in Surveillance Videos. <b>2022</b> ,	O
551	Systematic Motion Integration with Multiple Depth Cameras Allowing Sensor Movement for Stable Skeleton Tracking. <b>2022</b> ,	O
550	Traffic vehicle detection by fusion of millimeter wave radar and camera. 2022,	O
549	Research on Fault Detection System of Vertical Shaft Hoisting Cage Shoes Based on Machine Vision. <b>2022</b> ,	O
548	A-pillar Blind Spot Display Algorithm Based on Line of Sight. <b>2022</b> ,	O
547	Indoor Passive Visual Positioning by CNN-Based Pedestrian Detection. 2022, 13, 1413	1
546	Immersive Human-Robot Interaction for Dexterous Manipulation in Minimally Invasive Procedures. <b>2022</b> ,	O
545	Petroleum Pipeline Interface Recognition and Pose Detection Based on Binocular Stereo Vision. <b>2022</b> , 10, 1722	O
544	Infrastructure camera calibration with GNSS for vehicle localisation.	0
543	BeeingIthe Invisible: Under Vehicle Reconstruction (UVR) for Surround View Visualization. <b>2022</b> , 2330, 012015	O

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541	Open-VICO: An Open-Source Gazebo Toolkit for Vision-based Skeleton Tracking in Human-Robot Collaboration. <b>2022</b> ,	О
540	Camera calibration based on improved differential evolution particle swarm. 002029402211018	0
539	Research on the Visual Guidance System of Zoning Casting Grinding Based on Feature Points. <b>2022</b> , 12, 8771	O
538	Multi-Camera Digital Image Correlation in Deformation Measurement of Civil Components with Large Slenderness Ratio and Large Curvature. <b>2022</b> , 15, 6281	О
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534	Vision-based displacement measurement using a camera mounted on a structure with stationary background targets outside the structure.	2
533	High-precision camera calibration based on a 1D target. <b>2022</b> , 30, 36873	О
532	Automated wall-climbing robot for concrete construction inspection.	1
531	An Experimental Study of a 3D Bone Position Estimation System Based on Fluoroscopic Images. <b>2022</b> , 12, 2237	1
530	Pixel-wise structured light calibration method with a color calibration target. <b>2022</b> , 30, 35817	0
529	Accurate Measurement of Virtual Image Distancefor Near-Eye Displays Based on Auto-Focusing.	o
528	Real-time 3D scans of cardiac surgery using a single optical-see-through head-mounted display in a mobile setup. 3,	О
527	Smart optical coordinate and surface metrology.	o
526	Multi-camera Metrology System for Shape and Position Correction of Large Fuselage Components in Aircraft Assembly. <b>2023</b> , 194-204	0
525	Potential Obstacle Detection Using RGB to Depth Image EncoderDecoder Network: Application to Unmanned Aerial Vehicles. <b>2022</b> , 22, 6703	O

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522	Spatial feature point measurement on large-curved surfaces: A portable mobile measurement method based on monocular multi-angle points. <b>2022</b> ,	О
521	A cyber-physical prototype system in augmented reality using RGB-D camera for CNC machining simulation.	O
520	Shape Reconstruction for Deflectometry based on Chebyshev Polynomials and Iteratively Reweighted Least Squares Regression.	O
519	Novel Optimization Approach for Camera Calibration in Traffic Scenes. 036119812211212	O
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517	In Situ Measurement of Cyclic Plastic Zone and Internal Strain Response of Q&P Steel near Fatigue Crack Tip Region Based on Micro-DIC. <b>2022</b> , 15, 6114	O
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511	Extrapolating distortion correction with local measurements for space-based multi-module splicing large-format infrared cameras. <b>2022</b> , 30, 38043	O
510	Growth parameter acquisition and geometric point cloud completion of lettuce. 13,	0
509	A high-accuracy camera calibration method based on coded concentric ring center extraction.	O
508	Novel Methodology to Recover Road Surface Height Maps from Illuminated Scene through Convolutional Neural Networks. <b>2022</b> , 22, 6603	0
507	An Efficient Method for Document Correction Based on Checkerboard Calibration Pattern. <b>2022</b> , 12, 9014	O

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505	Volumetric Shrinkage Monitoring of Compacted Soil Specimens Using Image Based Modeling Technique.	O
504	Fuzzy Membership Grade-Based Binocular Line-Structured Light Parameter Calibration Algorithm.	О
503	Projected augmented reality assembly assistance system supporting multi-modal interaction.	O
502	The Development and Evaluation of a Fully Automated Markerless Motion Capture Workflow. <b>2022</b> , 111338	O
501	Extracting Vessel Speed Based on Machine Learning and Drone Images during Ship Traffic Flow Prediction. <b>2022</b> , 2022, 1-12	O
500	Hand-eye calibration for an unfocused light-field camera. <b>2022</b> , 39, 1946	О
499	KaliCalib: A Framework for Basketball Court Registration. <b>2022</b> ,	Ο
498	Real-time automatic crack detection method based on drone.	0
497	A plantar surface shear strain methodology utilising Digital Image Correlation. <b>2022</b> , 136, 105482	O
496	Preliminary Study on 3D Dose Measurement using Scintillation Gel and Optical Emission Computed Tomography. <b>2021</b> ,	O
495	Cameras in Advanced Driver-Assistance Systems and Autonomous Driving Vehicles. <b>2022</b> , 213-243	Ο
494	HydraMarker: Efficient, Flexible, and Multifold Marker Field Generation. 2022, 1-12	О
493	Stitching Based on Corrections to Obtain a Flat Image on a Curved-Edge OLED Display. <b>2022</b> , 71, 1-12	Ο
492	An Efficient Optical Mura Compensation System for Large Liquid-Crystal Display Panels. <b>2022</b> , 71, 1-13	0
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489	Object Recognition and Localization Based on Binocular Stereo Vision. 2022,	О

488	Adaptive Control Algorithm for Uncalibrated Position-based Visual Servoing. 2022,	O
487	Vibration Mode Identification Method of Large-scale Flexible Structure Based on Computer Vision. <b>2022</b> ,	O
486	A human-robot collision avoidance method using a single camera. <b>2022</b> , 66, 2244-2248	O
485	Underwater visual mapping of curved ship hull surface using stereo vision.	O
484	Comparison Study of Three Camera Calibration Methods Considering the Calibration Board Quality and 3D Measurement Accuracy.	0
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480	MONA: The Munich Motion Dataset of Natural Driving. 2022,	0
479	Experimental investigation of stereocamera's error to optimize dust observation on HL-2A tokamak. <b>2022</b> , 88,	1
478	Mechanical Property Test of Grass Carp Skin Material Based on the Digital Image Correlation Method. <b>2022</b> , 22, 8364	0
477	Accelerating off-lattice kinetic Monte Carlo simulations to predict hydrogen vacancy-cluster interactions in <b>E</b> e. <b>2022</b> , 118452	O
476	Close encounters of three kinds: impacts of leg, wing, and body collisions on flight performance in carpenter bees.	O
475	A vision-based container position measuring system for ARMG. 002029402211109	2
474	Fast and Accurate Pose Estimation with Unknown Focal Length Using Line Correspondences. <b>2022</b> , 22, 8253	1
473	An Al-Based Curling Game System for Winter Olympics. <b>2022</b> , 2022, 1-17	O
472	A projector calibration method for fringe projection system. 2022,	O
471	Real-Time Inspection of Rod Straightness and Appearance by Non-Telecentric Camera Array. <b>2022</b> , 34, 975-984	O

470	Automatic Recognition and Geolocation of Vertical Traffic Signs Based on Artificial Intelligence Using a Low-Cost Mapping Mobile System. <b>2022</b> , 7, 133	0
469	Is low-cost motion capture with artificial intelligence applicable for human working posture risk assessment during manual material handling? A pilot study. <b>2022</b> , 1-11	О
468	iMarker: Instant and True-to-scale AR with Invisible Markers. <b>2022</b> ,	0
467	Analysis and measurement of the shape of spinning balloons. 004051752211305	O
466	Experimental Investigation of a Roughness Element Wake on a Hypersonic Flat Plate. 2022, 9, 574	0
465	Experimental Study of Radial Distortion Compensation for Camera Submerged Underwater Using Open SaltWaterDistortion Data Set. <b>2022</b> , 8, 289	O
464	Estimation of skeletal kinematics in freely moving rodents. <b>2022</b> , 19, 1500-1509	O
463	Improved Wearable Devices for Dietary Assessment Using a New Camera System. <b>2022</b> , 22, 8006	О
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460 459 458	A RANSAC based phase noise filtering method for the camera-projector calibration system. 2022, 18, 618-622  The Center of the Circle Fitting Optimization Algorithm Based on the Hough Transform for Crane. 2022, 12, 10341  3D velocity field reconstruction of gas-liquid two-phase flow based on space-time multi-scale binocular-PIV technology. 2022, 18, 613-617  Infra2Go: A Mobile Development Platform for Connected, Cooperative and Autonomous Driving.	0 0
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451	Safety Warning of Mine Conveyor Belt Based on Binocular Vision. <b>2022</b> , 14, 13276	О
450	Robust autonomous landing of UAVs in non-cooperative environments based on comprehensive terrain understanding. <b>2022</b> , 65,	0
449	Projecting Product-Aware Cues as Assembly Intentions for Human-Robot Collaboration. 2023, 146-159	O
448	Automatic concrete defect detection and reconstruction by aligning aerial images onto semantic-rich building information model.	O
447	Robot-world and handBye calibration based on motion tensor with applications in uncalibrated robot. <b>2022</b> , 204, 112076	O
446	3D Reconstruction Using 3D Registration-Based ToF-Stereo Fusion. <b>2022</b> , 22, 8369	0
445	Experimental investigation on evolution characteristics of high- and low-speed streaks in supersonic turbulent boundary layer. <b>2022</b> , 12, 115204	O
444	Monitoring multiple geometrical dimensions in WAAM based on a multi-channel monocular visual sensor. <b>2022</b> , 204, 112097	O
443	An Uncertainty Weighted Non-Cooperative Target Pose Estimation Algorithm, Based on Intersecting Vectors. <b>2022</b> , 9, 681	O
442	Road defect detection from on-board cameras with scarce and cross-domain data. 2022, 144, 104628	1
441	Geometry, calibration, and robust centering procedures for refractive dome-port based imaging systems. <b>2022</b> , 194, 132-151	1
440	Motion compensation system for robotic based in situ bioprinting to balance patient physiological movements. <b>2022</b> , 28, e00248	О
439	Robot-world and handBye calibration based on quaternion: A new method and an extension of classic methods, with their comparisons. <b>2023</b> , 179, 105127	O
438	Vision-Based Measurements to Quantify Bridge Deformations. <b>2023</b> , 28,	О
437	An efficient point-set registration algorithm with dual terms based on total least squares. <b>2023</b> , 134, 109124	O
436	Clean affinity matrix learning with rank equality constraint for multi-view subspace clustering. <b>2023</b> , 134, 109118	О
435	Fast Two-Step Blind Optical Aberration Correction. <b>2022</b> , 693-708	O

434	High-dynamic-range 3D shape measurement with adaptive speckle projection through segmentation-based mapping. <b>2022</b> , 1-1	О
433	On the scientific work of Victor Isakov. <b>2022</b> , 0-0	О
432	Real-Time Suture Reconstruction in Rat Skin Stretching Experiments With Multiocular Stereo Vision Measurement System. <b>2022</b> , 71, 1-14	О
431	Quadrotor Autonomous Landing on Moving Platform. <b>2022</b> , 209, 40-49	О
430	Integrated structural monitoring method of photogrammetry and fiber Bragg grating sensors with two cases study. <b>2022</b> , 1-1	О
429	Neural Network Calibration of Star Trackers. <b>2022</b> , 71, 1-10	Ο
428	HuMMan: Multi-modal 4D Human Dataset for Versatile Sensing and Modeling. <b>2022</b> , 557-577	О
427	Camera Auto-calibration from the Steiner Conic of the Fundamental Matrix. 2022, 431-446	O
426	Polarimetric Pose Prediction. <b>2022</b> , 735-752	O
425	Calibration of ring multicamera system with transparent target for panoramic measurement. <b>2022</b> , 1-1	Ο
424	Probabilistic Framework for HandEye and RobotWorld Calibration \$AX = YB\$. 2022, 1-16	О
423	Autonomous Landing System of a VTOL UAV on an Upward Docking Station Using Visual Servoing. <b>2022</b> , 55, 108-113	1
422	Multi-level curvature-based parametrization and model updating using a 3D full-field response. <b>2023</b> , 187, 109927	О
421	Development of a novel hand-eye calibration for intuitive control of minimally invasive surgical robot. <b>2022</b> , 17,	O
420	Posture Estimation System for Excavator Manipulator Using Deep Learning and Inverse Kinematics. <b>2022</b> ,	О
419	Multimodal Object Detection and Ranging Based on Camera and Lidar Sensor Fusion for Autonomous Driving. <b>2022</b> ,	Ο
418	Bolt Loosening Angle Detection Based on Binocular Vision.	О
417	Decreasing the Commissioning Time of Optical Multi-Camera Inspection Systems by Simulating Surface Coverage Using the Example of Formed Bipolar Plates.	О

416	In-situ 3D contour measurement for laser powder bed fusion based on phase guidance. <b>2022</b> , 100405	O
415	VDI/VDE 2634¶ performance evaluation tests and systematic errors in passive stereo vision systems. <b>2022</b> ,	O
414	Assessment of imaging models for volumetric tomography of fluid flows. <b>2022</b> , 204, 112174	Ο
413	3D Radiometric Mapping by Means of LiDAR SLAM and Thermal Camera Data Fusion. <b>2022</b> , 22, 8512	O
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411	Correction of perspective distortion and intensity errors in projected fringe patterns in phase-measuring deflectometry. <b>2022</b> , 61,	O
410	Dynamic Monitoring of the Standard Penetration of PHC Tubular Piles and Analysis of the Construction Effect Based on Monocular Visual Digital Photography. <b>2022</b> , 12, 11468	1
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408	Research on vision measurement method based on binocular structured light. 2022,	0
407	Extending Vision Ray Calibration by Determination of Focus Distances.	O
406	An Efficient Model for a Camera Behind a Parallel Refractive Slab.	0
405	Using Optical Flow Trajectories to Detect Whitecaps in Light-Polluted Videos. <b>2022</b> , 14, 5691	O
404	A non-iterative calibration method for the extrinsic parameters of binocular stereo vision considering the line constraints. <b>2022</b> , 205, 112151	О
403	Motion Arc Analysis in Virtual Reality Environment. 2022,	O
402	Enhanced RGB Image Processing Method for Automatic 2D and 3D Defect Inspection on Shiny Surfaces. <b>2023</b> , 139-150	0
401	Spatio-Temporal Calibration of Multiple Kinect Cameras Using 3D Human Pose. <b>2022</b> , 22, 8900	O
400	The validity and reliability of wearable devices for the measurement of vertical oscillation for running. <b>2022</b> , 17, e0277810	1
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397	Depth-Resolved Localization Microangiography in the NIR-II Window. 2204782	О
396	Visual inertial odometry based gait analysis using waist-attached RGB-D camera and inertial sensors. <b>2022</b> , 1-1	О
395	Image Undistortion and Stereo Rectification Based on Central Ray-Pixel Models. 2022, 40-55	O
394	Measurement of garment dimension based on switching median filter used in image processing. <b>2022</b> ,	О
393	3D-Producer: A Hybrid and User-Friendly 3D Reconstruction System. <b>2022</b> , 526-531	O
392	Recursive System Identification of Story Stiffness and Dynamic Properties Using a Single Moving Image of Seismic Response of Building. <b>2022</b> , 22, 5_60-5_78	О
391	Robust heading measurement based on improved Berry model for bionic polarization navigation. <b>2022</b> , 1-1	O
390	Tightly Coupled Binocular Vision-DVL Fusion Positioning Feedback for Real-time Autonomous Sea Organism Capture. <b>2022</b> , 1-1	О
389	Free vibration and stability of a fully submerged pipe aspirating water: An experiment and new physical insights. <b>2023</b> , 116, 103789	0
388	3D structural deformation monitoring of the archaeological wooden shipwreck stern investigated by optical measuring techniques. <b>2023</b> , 59, 102-112	О
387	Three dimensional deformation measurement method based on image guided point cloud registration. <b>2023</b> , 161, 107399	O
386	Visual measurement method for three-dimensional shape of underwater bridge piers considering multirefraction correction. <b>2023</b> , 146, 104706	О
385	Morphological measurement for carrot based on three-dimensional reconstruction with a ToF sensor. <b>2023</b> , 197, 112216	O
384	Full-body pose estimation for excavators based on data fusion of multiple onboard sensors. <b>2023</b> , 147, 104694	О
383	Development of a low-cost vision-based real-time displacement system using Raspberry Pi. <b>2023</b> , 278, 115493	O
382	Evaluating parametric uncertainty using non-linear regression in fringe projection. 2023, 162, 107377	О
381	Flexible generation-on-demand multistation for non-cooperative 6DOF pose measurement. <b>2023</b> , 80, 57-71	O

380	A flexible lateral chromatic aberration correction method for a color-encoded fringe projection system. <b>2023</b> , 162, 107425	o
379	A Refractive Stereo Structured-Light 3D Measurement System for Immersed Object. <b>2022</b> , 1-1	О
378	A precise calibration method for the underwater binocular camera with unknown refractive index. <b>2022</b> , 1-1	0
377	Motion trajectory estimation of salmon using stereo vision. <b>2022</b> , 55, 363-368	О
376	Vision-Based Target Detection and Positioning Approach for Underwater Robots. 2022, 1-12	О
375	Perception-Free Calibration of Eye Opening and Closing Threshold for Driver Fatigue Monitoring. <b>2022</b> , 10, 125469-125476	O
374	Shape Sensing of Flexible Robots Based on Deep Learning. <b>2022</b> , 1-14	0
373	Camera Calibration Based on Phase Estimation. <b>2022</b> , 1-1	О
372	Planar Test Objects for Photogrammetric Calibration of Enhanced Vision Systems Cameras: Application Practice. <b>2022</b> ,	o
371	Multi-Spectral Imaging for Weed Identification in Herbicides Testing. <b>2022</b> , 771-793	О
370	The Depth Measurement of Digital Stereomicroscope System. <b>2022</b> , 34, 198-207	О
369	Design and Implementation of a Vision Based In-Situ Defect Detection System of Automated Fiber Placement Process. <b>2022</b> ,	О
368	Object Detection in 3D Coral Ecosystem Maps from Multiple Image Sequences. <b>2022</b> ,	О
367	On Depth Error from Spherical Camera Calibration within Omnidirectional Stereo Vision. 2022,	o
366	Multi-View Auto-Calibration Method Based on Human Pose Estimation. 2022,	o
365	A Visual Contour-based Detection Method for Orthodontic Archwire during Robotic Bending. 2022,	o
364	Edge Computing-Enabled Multi-Sensor Data Fusion for Intelligent Surveillance in Maritime Transportation Systems. <b>2022</b> ,	О
363	Responses of Preview-based Vehicle Suspension System on Discrete Impact Roads. 2022,	О

362	Automatic Method of Camera Calibration for The Traffic Surveillance. 2022,	O
361	Sidewinder: Snake Robot⊠ Stereo Vision System for Rescue in Collapsed Debris at Disaster Sites. <b>2022</b> ,	O
360	Calibration and Definition of a System for Automated Ship Length Measurement. 2022,	O
359	Gait Monitoring Using An Ankle-Worn Stereo Camera System. <b>2022</b> ,	O
358	Distortion Correction using Virtual PCG Pattern for Precise Stereo-based Large-scale 3D Measurement. <b>2022</b> ,	O
357	Improving Monocular Depth Estimation in Traffic Scenarios by Polarization. 2022,	O
356	Are Realistic Training Data Necessary for Depth-from-Defocus Networks?. 2022,	0
355	Unified Calibration Technique for Augmented-Reality Ultrasound-Guided Interventions. 2022,	O
354	Evaluation of Feature Detection Algorithms and Epipolar Geometry Based Camera Pose Estimation. <b>2022</b> ,	O
353	Three-Dimensional Transparent Soil Imaging and Processing. 2023, 175-196	O
352	Farmland Soil Block Identification and Distribution Statistics Based on Deep Learning. 2022, 12, 2038	O
351	A Three-Camera Digital Image Correlation System For Full-Field 3D Shape and Motion Measurement. <b>2022</b> , 80, 34-41	O
350	Robust Camera Calibration with a Single Image by Planar Homography. 2022,	О
349	Indoor 3D Reconstruction of Buildings via Azure Kinect RGB-D Camera. <b>2022</b> , 22, 9222	1
348	The TinyV3RSE Hardware-in-the-Loop Vision-Based Navigation Facility. <b>2022</b> , 22, 9333	0
347	Extrinsic Calibration for LiDARCamera Systems Using Direct 3DDD Correspondences. 2022, 14, 6082	O
346	Computer Vision Interface for Symbolic Programming of Cartesian Motion to introduce Visually Impaired Children into Robotic Sciences. <b>2022</b> ,	0
	imparred Children into Robotic Sciences. 2022,	

344	Robot vision-based control strategy to suppress residual vibration of a flexible beam for assembly.	O
343	Application of Convolutional Neural Networks for Three-Dimensional Reconstruction of the Geometry of Objects in the Image. <b>2022</b> ,	O
342	Multi-view traffic sign localization with high absolute accuracy in real-time at the edge. 2022,	О
341	Dynamic Characteristic Monitoring of Wind Turbine Structure Using Smartphone and Optical Flow Method. <b>2022</b> , 12, 2021	O
340	A deep learning framework for inference of single-trial neural population dynamics from calcium imaging with subframe temporal resolution. <b>2022</b> , 25, 1724-1734	O
339	Design and Implementation of 3-D Measurement Method for Container Handling Target. <b>2022</b> , 10, 1961	4
338	A stereo camera self-calibration method using DIC-based planar feature matching. 2022,	O
337	A novel motionless calibration method for augmented reality surgery navigation system based on optical tracker. <b>2022</b> , 8, e12115	O
336	Fast Recognition and Pose Estimation Algorithm for Space Cooperative Target via Mono-vision. <b>2022</b> , 2405, 012021	O
335	An Improved Synthesis Phase Unwrapping Method Based on Three-Frequency Heterodyne. <b>2022</b> , 22, 9388	1
334	MANGO: low-cost open source needle guidance. 1-7	O
333	Estimation of Human Body Height Using Consumer-Level UAVs. <b>2022</b> , 14, 6176	O
332	High-Precision Wafer Bonding Alignment Mark Using Moir[Fringes and Digital Grating. 2022, 13, 2159	O
331	3D full-field fringe projection measurement based on imaging view transformation.	O
330	Interpretation and Transformation of Intrinsic Camera Parameters Used in Photogrammetry and Computer Vision. <b>2022</b> , 22, 9602	O
329	Research on Calibration Methods of Long-Wave Infrared Camera and Visible Camera. <b>2022</b> , 2022, 1-13	O
328	A High-flexibility and High-accuracy Phase DelayCalibration Method for MEMS-based FringeProjection Systems.	2
327	Multi-Objective Association Detection of Farmland Obstacles Based on Information Fusion of Millimeter Wave Radar and Camera. <b>2023</b> , 23, 230	Ο

326	Sample balancing of curves for lens distortion modeling and decoupled camera calibration. <b>2022</b> , 129221	O
325	Efficient detection of crossing pedestrians from a moving vehicle with an array of cameras. <b>2022</b> , 62,	О
324	Automatic robotic trajectory planning assisted by laser projection measurement. 2022,	0
323	The design of miniaturized in-situ shadow photographic imaging system for plankton research. <b>2022</b> ,	O
322	Modified HandEye Calibration Using Dual Quaternions. <b>2022</b> , 12, 12480	O
321	A Three-Dimensional Structured Light Vision System by Using a Combination of Single-Line and Three-Line Lasers. <b>2023</b> , 23, 13	1
320	Vision measurement system for geometric parameters of tubing internal thread based on double-mirrored structured light. <b>2022</b> , 30, 47701	0
319	Synthetic River Flow Videos for Evaluating Image-Based Velocimetry Methods. <b>2022</b> , 58,	Ο
318	Design of a Machine Vision-Based Automatic Digging Depth Control System for Garlic Combine Harvester. <b>2022</b> , 12, 2119	1
317	Two-step calibration method of the extrinsic parameters with high accuracy for bistatic non-orthogonal shafting laser theodolite system.	O
316	Intelligent height measurement technology for ground encroachments in large-scale power transmission corridor based on advanced binocular stereovision algorithms.	0
315	A 3D reconstruction method for rapid warehousing and acceptance of satellite batch production lines. <b>2022</b> , 2395, 012071	О
314	A Stratified Camera Calibration Algorithm based on the Calibrated Conic.	O
313	Prediction and Optimization Algorithm for Intersection Point of Spatial Multi-Lines Based on Photogrammetry. <b>2022</b> , 22, 9821	O
312	Calibration method of relative pose between monopulse rangefinder and visible light array camera. <b>2022</b> ,	0
311	Research on Vision Measuring Technology for Position Degree of Hole Group.	O
310	Object Pose Estimation Using Edge Images Synthesized from Shape Information. <b>2022</b> , 22, 9610	О
309	A sensor enabled robotic strategy for automated Defect-Free Multi-Pass High-Integrity welding. <b>2022</b> , 224, 111424	Ο

308	Research on Road Condition Sensing Technology based on Vision and Radar Information. <b>2022</b> , 2400, 012032	O
307	Camera-based radiotherapy dosimetry using dual-material 3D printed scintillator arrays.	O
306	Real-time fusion of multiple videos and 3D real scenes based on optimal viewpoint selection.	O
305	An automatic alignment method for discharge arm of mobile crushing station based on binocular vision and fuzzy control. 014233122211369	O
304	A precise 3D scanning method using strero vision with multipoint markers for rapid workpiece localization. <b>2022</b> , 36, 6307-6318	O
303	Three-Dimensional Digital Image Correlation Based on Speckle Pattern Projection for Non-Invasive Vibrational Analysis. <b>2022</b> , 22, 9766	1
302	Assembly Status Detection Based on Step-by-step Strategy for Robotic Assembly. <b>2022</b> , 2402, 012040	О
301	Rotation Axis Calibration of 3D Scanning System based on Dual-Turntable Angle Cancellation.	O
300	Deep CNN-Based Materials Location and Recognition for Industrial Multi-Crane Visual Sorting System in 5G Network. <b>2023</b> , 13, 1066	O
299	The Optics of Augmented Reality Displays. <b>2023</b> , 187-209	O
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298	Educational Mechatronics Training System Based on Computer Vision for Mobile Robots. <b>2023</b> , 15, 1386	0
298 297	Educational Mechatronics Training System Based on Computer Vision for Mobile Robots. <b>2023</b> , 15, 1386  High-accuracy calibration method for underwater one-mirror galvanometric laser scanner.	0
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298 297 296 295	Educational Mechatronics Training System Based on Computer Vision for Mobile Robots. 2023, 15, 1386  High-accuracy calibration method for underwater one-mirror galvanometric laser scanner.  Calibration Procedure of a Multi-Camera System: Process Uncertainty Budget. 2023, 23, 589  Specular Surface Shape Measurement with Orthogonal Dual-Frequency Fourier Transform Deflectometry. 2023, 23, 674  Development of automatic puncture method to simulated blood vessel in semi-transparent skin model by noncontact position estimation using IR cameras. 2023,  A Novel Method for LCD Module Alignment and Particle Detection in Anisotropic Conductive Film	O O O O

290	Automatic buckling system of micro terminals combined vision and force signals. 002029402211444	О
289	Tire deformation measurement technology based on digital image correlation method. 095440702211462	Ο
288	3D Reconstruction of Wrist Bones from C-Arm Fluoroscopy Using Planar Markers. <b>2023</b> , 13, 330	0
287	An Open-Source Package for Thermal and Multispectral Image Analysis for Plants in Glasshouse. <b>2023</b> , 12, 317	O
286	A Simple Way to Reduce 3D Model Deformation in Smartphone Photogrammetry. 2023, 23, 728	О
285	An Underwater Structured Light Vision Calibration Method Considering Unknown Refractive Index Based on Aquila Optimizer. <b>2023</b> , 72, 1-12	1
284	Nondestructive discrimination of analogous density foreign matter inside soy protein meat semi-finished products based on transmission hyperspectral imaging. <b>2023</b> , 135431	О
283	A novel calibration method for a uniaxial MEMS-based 3D reconstruction system. <b>2023</b> ,	O
282	Extrinsic Calibration of the Multi-line LiDAR and Camera. <b>2023</b> , 331-349	0
281	Vision-based structural displacement measurement under ambient-light changes via deep learning and digital image processing. <b>2023</b> , 112480	O
280	A Cross-Line Structured Light Scanning System Based on a Measuring Arm. <b>2023</b> , 7, 5	0
279	Reconstruction of the Instantaneous Images Distorted by Surface Waves via HelmholtzHodge Decomposition. <b>2023</b> , 11, 164	O
278	Research on the Method of Monocular Camera Calibration. <b>2023</b> , 12, 32-39	О
277	Calibration method of line-structured light sensors base on a hinge connected target with arbitrary pinch angles.	O
276	Deep Reinforcement Learning for Parameter Tuning of Robot Visual Servoing.	O
275	A high-accuracy online calibration method for structured light 3D measurement. <b>2023</b> , 112488	Ο
274	Gradient-Based Automatic Exposure Control for Digital Image Correlation. 2023, 15, 1149	O
273	Cyber-Physical Platform with Miniature Robotic Vehicles for Research and Development of Autonomous Mobile Systems. <b>2023</b> , 897-908	O

272	Decision Method of Optimal Needle Insertion Angle for Dorsal Hand Intravenous Robot. <b>2023</b> , 23, 848	0
271	Excavator 3D pose estimation using deep learning and hybrid datasets. <b>2023</b> , 55, 101875	Ο
270	Artificial Intelligence in Manufacturing Equipment, Automation, and Robots. 2023, 41-78	0
269	A Large-Scale Calibration Method for MEMS-based Projector 3D Reconstruction.	O
268	Accurate and flexible calibration method for a 3D microscopic structured light system with telecentric imaging and Scheimpflug projection. <b>2023</b> , 31, 3092	0
267	A systematic strategy of pallet identification and picking based on deep learning techniques.	Ο
266	An Accurate, Efficient, and Stable Perspective-n-Point Algorithm in 3D Space. <b>2023</b> , 13, 1111	0
265	Quadcopter Drone for Vision-Based Autonomous Target Following. <b>2023</b> , 10, 82	O
264	Clinical prototype implementation enabling an improved day-to-day mammography compression. <b>2023</b> , 106, 102524	0
263	GRACO: A Multimodal Dataset for Ground and Aerial Cooperative Localization and Mapping. <b>2023</b> , 8, 966-973	O
262	Screen-monitored stitching deflectometry based on binocular stereo vision. <b>2023</b> , 207, 112440	0
261	Three-dimensional visual mapping of underwater ship hull surface using image stitching geometry. <b>2023</b> , 269, 113575	O
260	High-precision projection moir[measurement method for the large depth of field with significant distortion. <b>2023</b> , 207, 112437	O
259	Defocused calibration for large field-of-view binocular cameras. 2023, 147, 104737	O
258	Binocular video-based 3D reconstruction and length quantification of cracks in concrete structures. <b>2023</b> , 148, 104743	0
257	Target-free vision-based approach for modal identification of a simply-supported bridge. <b>2023</b> , 279, 115586	O
256	Non-destructive robotic sorting of cracked pistachio using deep learning. 2023, 198, 112229	0
255	Determination of the statistical distribution of drag and lift coefficients of refuse derived fuel by computer vision. <b>2023</b> , 338, 127122	O

254	Three-dimensional reconstruction for highly reflective diffuse object based on online measurement. <b>2023</b> , 533, 129276	О
253	A Skeleton-based View-Invariant Framework for Human Fall Detection in an Elevator. 2022,	O
252	Automatic Targetless Extrinsic Calibration between a Spinning Actuated LiDAR and a Camera. 2022,	O
251	Multi-Camera-LiDAR Auto-Calibration by Joint Structure-from-Motion. 2022,	O
250	Online Extrinsic Correction of Multi-Camera Systems by Low-Dimensional Parameterization of Physical Deformation. <b>2022</b> ,	O
249	Multical: Spatiotemporal Calibration for Multiple IMUs, Cameras and LiDARs. 2022,	О
248	Research on Ground Cloud Image Segmentation Technology Based on Bilateral Feature Fusion. <b>2022</b> ,	O
247	Multi-robot Cooperative Object Attitude Measurement in Disturbance Environment. 2022,	O
246	A Flexible Calibration Algorithm for High-speed Bionic Vision System based on Galvanometer. <b>2022</b> ,	1
245	An Efficient and Accurate Solution to Camera Pose Estimation Problem from Point and Line Correspondences Based on Null Space Analysis. <b>2022</b> ,	О
244	A Model for Floating Garbage Detection and Quantification Using Fixed Camera. 2022,	O
243	Software Tool for the Extrinsic Calibration of Infrared and RGBD Cameras Applied to Thermographic Inspection. <b>2023</b> , 28, e18145	O
242	Simulation-based test methods with an automotive camera-in-the-loop for automated driving algorithms. <b>2022</b> ,	O
241	Cross line structured light scanning system based on measuring arm. 2022,	O
240	Computer-vision-guided semi-autonomous concrete crack repair for infrastructure maintenance using a robotic arm. <b>2022</b> , 1,	О
239	A Practical Multi-Stage Grasp Detection Method for Kinova Robot in Stacked Environments. <b>2023</b> , 14, 117	O
238	A Noval Building Vibration Measurement system based on Computer Vision Algorithms. 2022,	O
237	Bin-Picking Solution for Industrial Robots Integrating a 2D Vision System. 2022,	О

236	Measurement Sensitivity Analysis and On-Orbit Calibration of Systematic Errors for a Narrow Field-of-View Camera.	О
235	Research on Stereo 3D Display for Augmented Reality Surgical Navigation. 2022,	О
234	Computing Thermal Point Clouds by Fusing RGB-D and Infrared Images: From Dense Object Reconstruction to Environment Mapping. <b>2022</b> ,	0
233	A Novel Method of Situ Measurement Algorithm for Oudemansiella raphanipies Caps Based on YOLO v4 and Distance Filtering. <b>2023</b> , 13, 134	O
232	A Target-based Calibration Method for LiDAR-Visual-Thermal Multi-Sensor System. 2022,	O
231	A LiDAR-Camera Calibration and Sensor Fusion Method with Edge Effect Elimination. 2022,	O
230	Hex nut screwing with a high-speed vision and a high-speed robot hand. 2022,	О
229	A tool-free neuronavigation method based on single-view hand tracking. 1-9	О
228	Autonomous Manipulator of a Mobile Robot Based on a Vision System. <b>2023</b> , 13, 439	О
227	A non-contact measurement method for rock mass discontinuity orientations by smartphone. <b>2022</b> ,	О
226	Evaluation of the Quality of a Checkerboard Camera Calibration Compared to a Calibration on a Laboratory Test Field. <b>2022</b> , 16, 21-28	0
225	3D Gaze Estimation Using RGB-IR Cameras. <b>2023</b> , 23, 381	O
224	Feather Damage Monitoring System Using RGB-Depth-Thermal Model for Chickens. <b>2023</b> , 13, 126	0
223	Point Cloud Segmentation Algorithm Based on Deep Learning and 3D Reconstruction. 2022,	О
222	Monocular In-flight Measurement of Airfoil Deflections.	О
221	Uncertainty and validation of unsteady pressure-sensitive paint measurements of acoustic fields under aero engine-like conditions. <b>2023</b> , 64,	О
220	A Method for IR Measurement of Large Scale Roughened Surfaces in Hypersonic Flow. 2023,	0
219	A Method of Improving the Length Measurement Accuracy of Metal Parts Using Polarization Vision. <b>2023</b> , 11, 145	O

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217	In-Silico and In-Vitro Analysis of the Novel Hybrid Comprehensive Stage II Operation for Single Ventricle Circulation. <b>2023</b> , 10, 135	O
216	Grain loading condition monitoring based on dual cameras in intelligent cluster grain truck. 2023,	0
215	Global Reconstruction Method of Maize Population at Seedling Stage Based on Kinect Sensor. <b>2023</b> , 13, 348	O
214	Stereoscopic Camera-Sensor Model for the Development of Highly Automated Driving Functions within a Virtual Test Environment. <b>2023</b> , 13, 87-114	0
213	BSV System with MSC and Its Application in the Measurement of Surface Cracks. <b>2023</b> , 2023, 1-8	1
212	Computer Stereo Vision for Autonomous Driving: Theory and Algorithms. 2023, 41-70	0
211	Autonomous Visual Navigation System Based on a Single Camera for Floor-Sweeping Robot. <b>2023</b> , 13, 1562	O
210	Light field processing for media applications. 2023, 227-264	O
209	Construction of features database using different platform navigation solutions for aiding PDR algorithm. <b>2023</b> , 102163	O
208	Real-Time Computer Vision for Tree Stem Detection and Tracking. 2023, 14, 267	O
207	Investigating Photogrammetric Accuracy of a Lunar-lander-induced Crater Measurement System. <b>2023</b> ,	O
206	Transformer High-Voltage Primary Coil Quality Detection Method Based on Machine Vision. <b>2023</b> , 13, 1480	О
205	Calibrating a Three-Viewpoints Thermal Camera with Few Correspondences.	O
204	Unsteady Pressure Sensitive Paint Camera Calibration Improvements. 2023,	O
203	Variable Baseline and Flexible Configuration Stereo Vision Using Two Aerial Robots. <b>2023</b> , 23, 1134	O
202	Research on 3D Phenotypic Reconstruction and Micro-Defect Detection of Green Plum Based on Multi-View Images. <b>2023</b> , 14, 218	1
201	Measurement of transparent profile using multispectral 3D digital image correlation. 2023,	0

200	PlantStereo: A High Quality Stereo Matching Dataset for Plant Reconstruction. 2023, 13, 330	0
199	Identification of Underwater Structural Bridge Damage and BIM-Based Bridge Damage Management. <b>2023</b> , 13, 1348	1
198	Ground Testing Facility for Scaled Thrust Reverser. 2023,	0
197	A Novel Ship-Height Measurement System based on Optical Axes Collinear Stereo Vision. <b>2023</b> , 1-1	O
196	Sparse accelerometer-aided computer vision technology for the accurate full-field displacement estimation of beam-type bridge structures. <b>2023</b> , 112532	1
195	Whole-body movement modeling in realistic environments for understanding performance and injury. <b>2023</b> , 709-765	O
194	ALIEN: Assisted Learning Invasive Encroachment Neutralization for Secured Drone Transportation System. <b>2023</b> , 23, 1233	0
193	General framework of a two-dimensional complex wavelet for fringe projection profilometry. <b>2023</b> , 31, 5257	0
192	Comparison of three grain size measuring methods applied to coarse-grained gravel deposits. <b>2023</b> , 106340	0
191	Flexible and fast calibration method for uni-directional multi-line structured light system. <b>2023</b> , 164, 107525	O
190	High-spatial-resolution retrieval of cloud droplet size distribution from polarized observations of the cloudbow. <b>2023</b> , 16, 645-667	0
189	Three-dimensional structural displacement measurement using monocular vision and deep learning based pose estimation. <b>2023</b> , 190, 110141	0
188	Visualization experiments of a solid cylinder suspended by laminar flow. 2023, 191, 325-337	0
187	Planar image-space trajectory planning algorithm for contour following in robotic machining. <b>2023</b> , 42, 1-11	O
186	??????????. <b>2022</b> , 51, 20210955	0
185	Real-time Rendering of Virtual-viewpoint Images from Multi-view Camera Images Using Projection Mapping. <b>2011</b> , 10, 263-275	O
184	A Hand-Eye Calibration Method based on Nonlinear Joint Optimization for RGBD Cameras. 2022,	0
183	A Calibration System of Intelligent Driving Vehicle Mounted Scene Projection Camera Based on Zhang Zhengyou Calibration Method. <b>2022</b> ,	O

182	Cross-Spectral Neural Radiance Fields. 2022,	0
181	Lidar-Camera Fusion Based on KD-Tree Algorithm. <b>2022</b> ,	O
180	Combining Monocular Camera and 2D Lidar for Target Tracking Using Deep Convolution Neural Network based Detection and Tracking Algorithm. <b>2022</b> ,	0
179	Wavefront measurement of a multilens optical system based on phase measuring deflectometry. <b>2023</b> , 21, 041201	O
178	An Embedded Monocular Vision Approach for Ground-Aware Objects Detection and Position Estimation. <b>2023</b> , 100-111	0
177	Binocular Structured Light 3-D Reconstruction System for Low-Light Underwater Environments: Design, Modeling, and Laser-Based Calibration. <b>2023</b> , 72, 1-14	O
176	Learning Camera Parameters With Weighted Edge Attention From Single-View Images. 2023, 11, 16896-1	69060
175	????????????. <b>2023</b> , 50, 0604002	O
174	A Tiny Defect Detection System for Tire Mold Surfaces Based on Consecutive Frames. <b>2023</b> , 72, 1-8	0
173	Error Model and Two-Phase Correction Method for Indirect Illumination. <b>2023</b> , 72, 1-9	O
172	Sensor-Aided Calibration of Relative Extrinsic Parameters for Outdoor Stereo Vision Systems. <b>2023</b> , 15, 1300	0
171	Hemisphere Tabulation Method: An Ingenious Approach for Pose Evaluation of Instruments Using the Electromagnetic-Based Stereo Imaging Method. <b>2023</b> , 14, 446	O
170	A Combined Physical and Mathematical Calibration Method for Low-Cost Cameras in the Air and Underwater Environment. <b>2023</b> , 23, 2041	0
169	A Minimal Solution for Image-Based Sphere Estimation.	O
168	AcTrak: Controlling a Steerable Surveillance Camera using Reinforcement Learning.	0
167	SEpi-3D: soft epipolar 3D shape measurement with an event camera for multipath elimination. <b>2023</b> , 31, 13328	O
166	High-precision single-axis rotation measurement method of multi-rudders based on monocular vision.	0
165	Open source video-based hand-eye calibration. <b>2023</b> ,	O

164	Energy-Efficient Relay Tracking and Predicting Movement Patterns with Multiple Mobile Camera Sensors. <b>2023</b> , 12, 35	О
163	Pose and Focal Length Estimation Using Two Vanishing Points with Known Camera Position. <b>2023</b> , 23, 3694	О
162	Augmented reality guidance platform for epicardial access: a phantom study. 2023,	O
161	2D DIC from single moving camera by homographies compensation. <b>2023</b> , 211, 112594	O
160	Single-shot dense depth sensing with a tricolor RGB fringe pattern. <b>2023</b> , 102441	О
159	A digital close range photogrammetric observation system for measuring soil surface morphology during ongoing rainfall. <b>2023</b> , 620, 129427	O
158	Landslide surface horizontal displacement monitoring based on image recognition technology and computer vision. <b>2023</b> , 431, 108691	О
157	Structural modal identification using a portable laser-and-camera measurement system. <b>2023</b> , 214, 112768	O
156	Development of an intelligent underwater recognition system based on the deep reinforcement learning algorithm in an autonomous underwater vehicle. <b>2023</b> , 214, 112844	О
155	A calibration methodology of ultrasonic transducers: Evaluation of spatial propagation characteristics of pulse-echo. <b>2023</b> , 214, 112783	O
154	Iteration of B-spline surface based deflectometric method for discontinuous specular surface. <b>2023</b> , 165, 107533	O
153	Complex-surface 360° panoramic measurement using mirror-assisted multiview 3D laser scanning system. <b>2023</b> , 167, 107598	O
152	A 3D reconstruction method of bubble flow field based on multi-view images by bi-direction filtering maximum likelihood expectation maximization algorithm. <b>2023</b> , 165, 104480	О
151	Design of Monocular Distance Measurement System based on Face Recognition. 2022,	O
150	Surface reconstruction in three-dimensional space using structured illumination. 2023, 64,	О
149	Reconstruction of the sound radiation field from flexural vibration measurements with multiple cameras. <b>2023</b> , 195, 110289	О
148	Thermal reality capturing with the Microsoft HoloLens 2 for energy system analysis. 2023, 288, 113020	O
147	CSIE: Coded strip-patterns image enhancer embedded in structured light-based methods. <b>2023</b> , 166, 107561	О

146	In-situ quality monitoring of laser hot wire cladding process based on multi-sensing diagnosis and machine learning model. <b>2023</b> , 87, 183-198	O
145	Defect classification for specular surfaces based on deflectometry and multi-modal fusion network. <b>2023</b> , 163, 107488	О
144	Construction of Automatic Hand-Eye Calibration System Based on ROS Platform. 2023, 50-57	О
143	Validating distortion measurements of wide-field-of-view near-eye displays. 2023,	O
142	Improving the localisation of features for the calibration of cameras using EfficientNets. 2023, 31, 7966	О
141	A camera calibration method based on scene and human semantics. <b>2022</b> ,	O
140	Ruler in Water: 6-DOF Underwater Rotating Platform Calibration for Laser Scanner. 2022,	O
139	Methodology and Tool Development for Mobile Device Cameras Calibration and Evaluation of the Results. <b>2023</b> , 23, 1538	1
138	Modeling of the Three-Dimensional Point Cloud Based on the Binocular Stereovision and Structure Identification. <b>2023</b> , 51, 20220383	О
137	Real-Time Monitoring System of Seedling Amount in Seedling Box Based on Machine Vision. <b>2023</b> , 13, 371	O
136	An image-based visual servo system to operate a flexible wire. <b>2023</b> , 43, 3-11	О
135	Research on aircraft descent speed measurement based on camera array. 2023,	O
134	Upper Body Pose Estimation Using a Visual <b>[</b> hertial Sensor System With Automatic Sensor-to-Segment Calibration. <b>2023</b> , 23, 6292-6302	О
133	A visual positioning method for wedge support robot based on Pruned-Ghost-YOLOv3. 095440622311521	О
132	Pre-flight Geometric and Optical Calibration of the Planetary Instrument for X-ray Lithochemistry (PIXL). <b>2023</b> , 219,	О
131	Panoramic Digital Image Correlation for 360-Deg Full-Field Displacement Measurement. <b>2023</b> , 13, 2019	Ο
130	TVCalib: Camera Calibration for Sports Field Registration in Soccer. 2023,	Ο
129	3D spatial distortion model based on the Lagrange difference in a binocular visual system. <b>2023</b> , 62, 1952	O

128	A Robot Manipulator Grasping Method Based on Improved YOLOX. 2022,	О
127	Comparison of Single-Camera-Based Depth Estimation Technology for Digital Twin Model Synchronization of Underground Utility Tunnels. <b>2023</b> , 13, 2106	Ο
126	High-precision projection moir[measurement method based on virtual reality bridging. 2023, 34, 055013	O
125	Demonstration of a simple and flexible calibration method for structured light system. <b>2023</b> , 276, 170650	O
124	Vision-based real-time structural vibration measurement through deep-learning-based detection and tracking methods. <b>2023</b> , 281, 115676	O
123	Real Time Intersection Traffic Queue Length Estimation System. 2023, 57-69	O
122	Vision-Based Robotic Object Grasping Deep Reinforcement Learning Approach. 2023, 11, 275	О
121	Teacher Attention Analysis Method Based on Face Three-Dimensional Feature Point Coordinate Transformation and Viewpoint Visualization and Applications. <b>2023</b> , 536-545	O
120	Quantitative Analysis of Classroom Attention Teaching Based on Stochastic Cascade Regression and PnP Method. <b>2023</b> , 596-604	Ο
119	Evaluation of a calibration rig for stereo laparoscopes.	O
118	LiDAR-assisted accuracy improvement strategy for binocular visual measurement. 2023, 62, 2178	O
117	Robot 3D spatial motion measurement via vision-based method. <b>2023</b> , 34, 065003	O
116	Monocular Feed-forward based 3D Target Aiming Using a 6-DOF Robotic Arm. 2022,	0
115	Accuracy Evaluation and Prediction of Single-Image Camera Calibration. <b>2023</b> , 11, 19312-19323	O
114	A Grasping Posture Judgment Algorithm Based on Feature Circumscribed Rectangle. 2022,	0
114	A Grasping Posture Judgment Algorithm Based on Feature Circumscribed Rectangle. 2022,  A Human-Machine Safety Distance Detection Method Based on Computer Vision. 2022,	0
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110	A High-accuracy Camera Calibration Method Based on Special Circular Target. 2022,	О
109	Sensor-Based Calibration of Cameral Extrinsic Parameters for Stereophotogrammetry. 2023, 23, 7776-7785	Ο
108	Combining Classical and Neural Approaches for Image Segmentation. 2023,	0
107	Projection Mapping-Based Interactive Gimmick Picture Book with Visual Illusion Effects. <b>2023</b> , 35, 125-135	O
106	Vehicle door frame positioning method for binocular vision robots based on improved YOLOv4. <b>2023</b> , 34, 065005	O
105	Development of Potato Mass Estimation System Based on Deep Learning. <b>2023</b> , 13, 2614	O
104	High-Speed Videogrammetry for Seismic Performance of the Spherical Reticulated Shell Structure on the Shaking Table. <b>2023</b> , 13, 553	0
103	Mallard landing behavior on water follows a -constant braking strategy. <b>2023</b> , 226,	O
102	Development of robot assisted hybrid additive manufacturing technology for the freeform fabrication of lattice structures. <b>2023</b> , 66, 103456	0
101	A Cuboid Volume Measuring Method Based on a Single RGB Image. <b>2023</b> , 547-554	O
100	End-to-End Detection of a Landing Platform for Offshore UAVs Based on a Multimodal Early Fusion Approach. <b>2023</b> , 23, 2434	2
99	High-precision single-pixel 3D calibration method using pseudo-phase matching. <b>2023</b> , 31, 9872	O
98	Action recognition based on multimode fusion for VR online platform.	0
97	Cost-Efficient and Bias-Robust Sports Player Tracking by Integrating GPS and Video. <b>2023,</b> 74-86	O
96	Powder bed monitoring via digital image analysis in additive manufacturing.	0
95	Improved image-based, full-field structural displacement measurement using template matching and camera calibration methods. <b>2023</b> , 211, 112650	O
94	DNN and Model Combined Passive Localization and Social Distancing with Partial Inertial Aiding. <b>2023</b> , 108-122	0
93	Real-time profile measurement method for a large-scale satellite antenna. <b>2023</b> , 62, 2338	О

92	High-Precision External Parameter Calibration Method for Camera and Lidar Based on a Calibration Device. <b>2023</b> , 11, 18750-18760	O
91	TouchRoller: A Rolling Optical Tactile Sensor for Rapid Assessment of Textures for Large Surface Areas. <b>2023</b> , 23, 2661	O
90	DUNE: Deep UNcertainty Estimation for tracked visual features. 2022,	О
89	Automatic Pico Laser Trimming System for Silicon MEMS Resonant Devices Based on Image Recognition. <b>2023</b> ,	O
88	A unified calibration method of 3D laser profile measurement with different of laser-line lengths. <b>2023</b> , 43, 53-64	О
87	High-Precision 3D Reconstruction Study with Emphasis on Refractive Calibration of GelStereo-Type Sensors. <b>2023</b> , 23, 2675	O
86	Gaze Tracking 3-D Reconstruction of Object With Large-Scale Motion. <b>2023</b> , 72, 1-12	0
85	Mirror-assisted multi-view high-speed digital image correlation for dual-surface dynamic deformation measurement. <b>2023</b> , 66, 807-820	O
84	Metrological support of video measuring systems. <b>2023</b> , 24-30	0
83	Rapid and flexible calibration of DFPP using a dual-sight fusion target. <b>2023</b> , 48, 2086	O
82	Binocular fringe projection profilometry for the metrology of meter-scale optical surfaces. 2023, 2, 697	O
81	Estimation of hourly black carbon aerosol concentrations from glass fiber filter tapes using image reflectance-based method.	O
80	A method for simultaneously calibrating projectors and correcting nonlinearities. <b>2023</b> , 2450, 012028	0
79	An Online 3D Modeling Method for Pose Measurement under Uncertain Dynamic Occlusion Based on Binocular Camera. <b>2023</b> , 23, 2871	O
78	On-axis deflectometric system for freeform surface measurement. <b>2023</b> , 48, 1986	0
77	Compact breast shape acquisition system for improving diffuse optical tomography image reconstructions. <b>2023</b> , 14, 1579	O
76	Flexible High-Resolution Continuous 3-D Scanning for Large-Scale Industrial Components. <b>2023</b> , 72, 1-16	O
	Vehicle Distance Measurement Method of Two-Way Two-Lane Roads Based on Monocular Vision.	

74	Crowd sensing and spatiotemporal analysis in urban open space using multi-viewpoint geotagged videos. <b>2023</b> , 27, 494-515	О
73	Encounter Risk Evaluation with a Forerunner UAV. <b>2023</b> , 15, 1512	O
72	A model-free block-based camera calibration method. 2022,	О
71	Multimedia-based Camera-Laser Joint Calibration. 2022,	O
70	IMPLEMENTATION OF THE SMARTPHONE CAMERA IN THE MEASURES OF NARROW STREET FACADES. <b>2023</b> , 49, 25-36	O
69	A high-precision measurement system with a large field of view. <b>2022</b> ,	O
68	Accurate Trajectory Extraction of Dynamic Targets for Driving Behaviour Analysis. 2022,	O
67	Remote 3D Displacement Sensing for Large Structures with Stereo Digital Image Correlation. <b>2023</b> , 15, 1591	O
66	Camera calibration as machine learning problem using dense phase shifting pattern, checkerboards, and different cameras. <b>2023</b> ,	O
65	A Multi-View Vision System for Astronaut Postural Reconstruction with Self-Calibration. <b>2023</b> , 10, 298	O
64	Decoupling calibration method of long focal length camera using vanishing point. 2023, 62,	O
63	DIC Measurement of Welding-Induced Deformation on a Train Bogie Moving Bolster Subassembly. <b>2023</b> , 13, 3846	O
62	Factor graph localization for mobile robots using Google Indoor Street View and CNN-based place recognition. <b>2023</b> , 11, 1-19	О
61	Reliability Assessment of a Vision-Based Dynamic Displacement Measurement System Using an Unmanned Aerial Vehicle. <b>2023</b> , 23, 3232	O
60	Novel Geometric Calibration Method for Pan-Tilt Camera With Single Control Point. 2023, 11, 34175-34185	O
59	3D infrared temperature maps measurements of ablative materials during plasma wind tunnel experiments. <b>2023</b> , 34, 075401	O
58	A Calibration and Real-Time Object Matching Method for Heterogeneous Multi-Camera System. <b>2023</b> , 72, 1-12	O
57	Kinematic Calibration of a Space Manipulator Based on Visual Measurement System with Extended Kalman Filter. <b>2023</b> , 11, 409	1

56	Object detection and localization algorithm in agricultural scenes based on YOLOv5. <b>2023</b> , 32,	0
55	Maritime Tracking With Georeferenced Multi-Camera Fusion. <b>2023</b> , 11, 30340-30359	O
54	Research on vision-based robot planar motion measurement method. 2023, 45,	О
53	Development of panorama vision ring for thoracoscopy. <b>2023</b> , 18, 945-952	O
52	Infrared Camera Geometric Calibration: A Review and a Precise Thermal Radiation Checkerboard Target. <b>2023</b> , 23, 3479	O
51	2D in situ determination of soot optical band gaps in flames using hyperspectral absorption tomography. <b>2023</b> , 112730	O
50	A Virtual Multi-Ocular 3D Reconstruction System Using a Galvanometer Scanner and a Camera. <b>2023</b> , 23, 3499	0
49	Real-time unmanned aerial vehicle surveying using spatial criteria: a simulated study. 2023, 17,	O
48	Computer Vision Observation for Progressive Failure Characteristics of a Moderately Weathered Red Mudstone Foundation: Design and Experiment. <b>2023</b> , 13, 864	0
47	Accurate Calibration of a Large Field of View Camera with Coplanar Constraint for Large-Scale Specular Three-Dimensional Profile Measurement. <b>2023</b> , 23, 3464	O
46	Head-Mounted Projector for Manual Precision Tasks: Performance Assessment. <b>2023</b> , 23, 3494	О
45	Measurement of Nonuniform Strain Distribution in CORC Cable Due to Bending Process by a Segmentation-Aided Stereo Digital Image Correlation.	O
44	3D Pot-Shaped Object Localization Based on RGB-Image and Point Clouds. <b>2023</b> , 12-22	O
43	Single-Camera Three-Dimensional Digital Image Correlation with Enhanced Accuracy Based on Four-View Imaging. <b>2023</b> , 16, 2726	O
42	Research on Camera Calibration Method Based on Homography Matrix. 2023,	O
41	An Improved Calibration Method of Grating Projection Measurement System. <b>2023</b> , 75, 3957-3970	O
40	An Improved Structural Displacement Monitoring Approach by Acceleration-Aided Tilt Camera Measurement. <b>2023</b> , 2023, 1-30	О
39	??????????????. <b>2023</b> , 43, 0412002	O

38	????????????. <b>2023</b> , 60, 0628010	Ο
37	??????????????????. <b>2023</b> , 60, 0312024	Ο
36	?????????????. <b>2023</b> , 60, 0312022	0
35	?????????????. <b>2023</b> , 43, 0512003	O
34	Evaluation of Camera Pose Estimation Using Human Head Pose Estimation. 2023, 4,	O
33	Investigation of Dynamic Characteristics Experiments and Stability Evaluation Criterion of Space Ball Bearing Cage. 1-13	O
32	A novel triangular stereo model for 3D reconstruction of uniaxial MEMS-based structured light system. <b>2023</b> , 166, 107596	0
31	Measurement of image sensor tilt based on amplitude and phase of image.	O
30	Research on 3D reconstruction method of cattle face based on image. <b>2023</b> , 1-13	0
29	Research on Mixing of Virtual and Actual Reality for Motor Augmented Assembly. 2023,	O
28	Suction Cup Quality Predication by Digital Image Correlation.	0
27	?????????????. <b>2022</b> , 51, 20210517	O
26	Stereo Gffitleme ile Aralbrfi fisi Efiliklerinin Tespiti.	0
25	3D Thermal Detection of Humans in Smoky Indoor Environments. <b>2022</b> ,	O
24	Research on Identification and Location of Charging Ports of Multiple Electric Vehicles Based on SFLDLC-CBAM-YOLOV7-Tinp-CTMA. <b>2023</b> , 12, 1855	0
23	Handheld Device Design for Robotic Teleoperation based on Multi-Sensor Fusion. 2023,	O
22	Close encounters of three kinds: impacts of leg, wing, and body collisions on flight performance in carpenter bees.	0
21	A new method for localized necking detection in uniaxial tensile testing based on a multi-camera DIC system. <b>2023</b> , 35, 106021	O

20	Visual Measurement Method and Application of Mobile Manipulator Pose Estimation based on PPMCC-IMM Filtering. <b>2023</b> , 1-1	0
19	A novel hand-eye calibration method using double-layer optimization and outlier sample screening for monocular vision robots. <b>2023</b> , 34, 075016	O
18	BirdViewAR: Surroundings-aware Remote Drone Piloting Using an Augmented Third-person Perspective. <b>2023</b> ,	O
17	Measurement of Six-Degree-of-Freedom Absolute Postures Using a Phase-Encoded Pattern Target and a Monocular Vision System.	O
16	Incorporation of motion prediction and state estimation to track dots for vision-based in-crash toeboard deformation measurement. <b>2023</b> , 112841	O
15	iBall: Augmenting Basketball Videos with Gaze-moderated Embedded Visualizations. 2023,	O
14	3-D and 2-D reconstruction of bladders for the assessment of inter-session detection of tissue changes: a proof of concept.	O
13	LiDAR and Camera Calibration Using Pyramid and Checkerboard Calibrators. 2023,	O
12	Full body video-based self-avatars for mixed reality: from E2E system to user study.	0
11	Automated coplanarity inspection of BGA solder balls by structured light. 2023, 105802	O
10	A novel calibration method for the zoom micro-vision system containing electrically tunable lens. <b>2023</b> , 167, 107620	0
9	Camera Calibration Without Camera Access - A Robust Validation Technique for Extended PnP Methods. <b>2023</b> , 34-49	O
8	A feasible region detection method for vehicles in unstructured environments based on PSMNet and improved RANSAC.	O
7	Dumping Point Localization of Autonomous Excavation Based on Vision in Trenching Tasks. 2023,	O
6	A Novel Dataset for Multi-View Multi-Player Tracking in Soccer Scenarios. 2023, 13, 5361	0
5	Prediction of Contaminated Areas Using Ultraviolet Fluorescence Markers for Medical Simulation: A Mobile Phone Application Approach. <b>2023</b> , 10, 530	O
4	Three-Dimensional Reconstruction of Secondary Arc Based on Improved Binocular Stereo Vision Method. <b>2023</b> , 72, 1-9	0
3	Calibration method for fringe projection profilometry based on rational function lens distortion model. <b>2023</b> , 217, 112996	O

2 Trinocular camera self-calibration based on spatio-temporal multi-layer optimization. **2023**, 113003

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Common pole-polar and common tangent properties of dual coplanar circles and their application in camera calibration.

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