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Deformation Analysis by Close-Range Photogrammetry

An in-depth analysis of the potentials of close-range photogrammetry in the study of deformations by a novel method is presented.

Haim B. Papo1561

Photogrammetric Measurement of Thermal Deformation of a Large Process Compressor

Dimensional changes between the cold and hot running states were measured to 0.1-mm accuracy.

Clive S. Fraser1569

Photogrammetric Measurement of Microwave Antennae

Utilizing the program GEBAT, which allows for full self-calibration and the use of externally measured information, the RMS of residuals of targeted points did not exceed 0.01 mm.

S. F. El-Hakim1577

An Analytical System for Close-Range Photogrammetry

Experimental results indicate that the system, consisting of non-metric cameras and data reduction software, provided an accuracy of 1 part in 7000 of the largest dimension of the object space.

John N. Hatzopoulos1583

Stereo Photogrammetry in Geotechnical Engineering Research

Stereoscopy was used to determine disturbance around probes penetrated into soil.

J. L. Davidson1589

Stereo Camera and Stereo X-Ray Devices: Comparison of Biostereometric Measurements

Distance and coordinate errors are generally less than 0.2 mm, which is more than adequate for craniofacial mapping.

S. Curry, J. M. Anderson, S. Baumrind, and B. Wand1597

Simplified Rasterstereography Using a Metric Camera

The automatic processing of rasterstereographs is considerably simplified because only one initial calibration of the recording system is needed.

W. Frobin and E. Hierholzer1605

COVER PHOTO—Close-range photogrammetry was used to measure the efficiency of the sail design for the sailboat "Intrepid" prior to competing in the America's Cup Race. Stereo photography was obtained with a metric camera under actual performance conditions and a contour map of the sail area was compiled at a scale of 1:50 with a 5 cm contour interval using a Wild A-10 stereo plotting instrument. The project was accomplished under the supervision of Jack Van Eden and Dudley W. Line of Airborne Systems, Inc., Cypress, California.

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Highway Dimensions from Photolog	
Accuracies on the order of 0.5 feet in elevation and offset and 3 percent in station distance were obtained.	
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Structural Trends in Borrego Valley, California: Interpretations from SIR-A and SEASAT SAR	
This imagery has proven valuable in the determination of regional fault and joint patterns, to allow extension of the traces of unknown faults, and to delineate regional fold patterns not readily apparent from air photos and field studies.	
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Priorities for Worldwide Remote Sensing of Agricultural Crops	
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Calibrating Stereo Plotter Encoders	
Determining the scale factors for digitizer measurements on a stereo plotting instrument.	
Gerry Salsig	1635
Is Your Contact Printer Really a "Contact" Printer?	
The one used for this test appeared <i>not</i> to be a "contact" printer to the extent of causing significant stereo model deformations at optimum C-factor.	
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