

Doctoral Dissertations Pertaining to Remote Sensing and Photogrammetry: A Selected Bibliography

This bibliography lists doctoral dissertations pertaining to remote sensing and photogrammetry written in the United States and Canada between 1945 and 1980. Over 300 dissertations from approximately 75 colleges and universities are included. The majority of these dissertations have been abstracted in *Dissertation Abstracts International (DAI)*, which can be found in most libraries. Copies of entire dissertations can be obtained through University Interlibrary Loan Programs or can be purchased from University Microfilms International.

The dissertations presented here were found through perusal of the subject indexes in the *Comprehensive Dissertation Index 1861-1972*; *Comprehensive Dissertation Index Five Year Cumulation 1973-1977*; *Comprehensive Dissertation Index 1978 Supplement*; and individual monthly *Indexes* for later dates (through Volume 41, No. 3; September, 1980). The keywords used for finding the dissertations were adjustment, aerial, aerotriangulation, airphoto, analytical, infrared, Landsat, mapping, microwave, multispectral, orthophoto, photogrammetry, photography, radar, remote sensing, satellite, stereo, thematic, thermal, and their derivatives. Subsequent revisions and updates to this bibliography, therefore, can be made by using these or other keywords with the subject indexes in later volumes of *DAI*.

The entries in this bibliography are arranged by year and present the following information (when available):

Author, *Title of dissertation*, University granting degree, year, number of pages. (Major advisor)
DAI Volume/Number, page number.

While a rather comprehensive search was made to compile this bibliography, unfortunately some dissertations may have been omitted (particularly those in geodesy, surveying, meteorology, geology, and other fields with overlap into remote sensing and photogrammetry). Therefore, the Editor welcomes information regarding missing dissertation titles so that an addendum can be published at a later date.

1945

Chu, Chung-Jui, *Another Method of Determining the Tilt of an Aerial Photograph and Some Suggestions on Improving the Stereocomparagraph Method of Mapping*, Cornell University, 1945, 186 pp.

Distribution of Parasites, The Catholic University of America, 1950.

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Chang, Wen-Han, *Design of the Stereorthographic Plotter for Photogrammetric Mapping*, Cornell University, 1952.

- Mollard, John D. A., *Aerial Photographic Studies on the Central Saskatchewan Irrigation Project*, Cornell University, 1952.
- Roscoe, John H., *Contributions to the Study of Antarctic Surface Features by Photo-Geographical Methods*, University of Maryland, 1952.
- Schulte, Oswald W., *The Use of Panchromatic Color and Infrared Aerial Photography in the Study of Plant Distribution*, The Catholic University of America, 1952.
- Shaban, Mostafa K. I., *Errors of Simultaneous Magnification and Rectification of Photographs Having Large Differences in Flight Altitude*, Cornell University, 1952, 33 pp.
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- Brettler, Benjamin J., *Evaluation and Calibration of Photogrammetric Systems*, Massachusetts Institute of Technology, 1953.
- Yeh, Pai T., *Application of Airphoto Interpretation Techniques in Determining Runoff from Selected Watersheds*, Purdue University, 1953.
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- Goodman, Marjorie S., *The Aerial Photographic Identification of Farm Crops in Northern Illinois*, Northwestern University, 1954, 227 pp.
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- Liang, Ta, *Landslides—An Aerial Photographic Study*, Cornell University, 1954.
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- Howe, Robert H., *Prediction of Groundwater Conditions by Airphoto Interpretation*, Purdue University, 1955, 257 pp.
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- Meyer, Merle P., *Some Observed Effects of Variations in Photographic Papers Upon Image Perception in Stereo Vertical Aerial Photographs*, University of Minnesota, 1956, 111 pp. (Henry L. Hansen)
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- Willingham, James, *The Estimation of Forest Management Inventory Data from Aerial Photographic Measurements*, University of Minnesota, 1956, 85 pp.
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- Johnson, Evert W., *Evaluation of Site Index for Long Leaf Pine Using Aerial Photographic Evidence*, State University of New York College of Environmental Science and Forestry, 1957.
- Turpin, Robert D., *Evaluation of Photogrammetric Techniques for Engineering Measurements*, Ohio State University, 1957, 212 pp. (Frederick J. Doyle)
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- Avery, Thomas E., *Construction and Test of a Composite Aerial Volume Table for Southern Pines and Hardwoods*, University of Minnesota, 1958, 96 pp. (Merle P. Meyer)
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- Floyd, Barry N., *Changing Patterns of African Land Use in Southern Rhodesia [with] Atlas of Maps, Air and Ground Photographs, Illustrating Dissertation*, Syracuse University, 1960, 818 pp.
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- Mahoney, William C., *Proposal, Development, and Testing of a System of Analytical Triangulation for a Medium Scale Digital Computer*, Ohio State University, 1961. (Frederick J. Doyle)
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- Sahgal, Om S., *The Applications of Photogrammetry to Highway Engineering in the Southeast Asian Region*, Ohio State University, 1961, 508 pp.
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- Hoffer, Roger M., *Regime of Incoming and Net Radiation in Relation to Certain Parameters of Density in Lodgepole Pine Stands*, Colorado State University, 1962, 142 pp.
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- Gracie, Gordon, *A Statistical Investigation of the Propagation of Random Errors in Analog Aerotriangulation*, University of Illinois, 1963, 170 pp.
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- Knorr, Philip N., *The Effect of Flight Orientation Upon the Interpretability of Vertical Aerial Photographs of Forest Stands*, University of Minnesota, 1963, 168 pp.
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- Merifield, Paul M., *Geologic Information from Hyperal-titude Photography*, University of Colorado, 1963, 208 pp. (Lawrence A. Warner)
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- Fraser, John K., *The Physiography of Boothia Peninsula, Northwest Territories: A Study in Terrain Analysis and Air Photo Interpretation of an Arctic Area*, Clark University, 1964, 321 pp. (Rodman E. Snead)
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- Jonah, Maxwell V., *An Analytically Modified Analogue Solution for Aerial Triangulation and Block Adjustment*, Ohio State University, 1964, 312 pp. (A. J. Brandenberger)
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- Taylor, James I., *Photogrammetric Determinations of Traffic Flow Parameters*, Ohio State University, 1965, 199 pp. (Johannes F. Schwar)
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- Wolf, Paul R., *Lunar Control Coordinates from Ranger Photography*, University of Wisconsin, 1967, 146 pp. (Donald R. Graff)
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- Krakiwsky, Edward J., *Sequential Least Squares Adjustment of Satellite Triangulation and Trilateration in Combination with Terrestrial Data*, Ohio State University, 1968, 273 pp. (Ivan I. Mueller)
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- Tanguay, Marc G., *Aerial Photography and Multispectral Remote Sensing for Engineering Soils Mapping*, Purdue University, 1969, 362 pp. (Robert D. Miles)
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- Helmering, Raymond J., *Consideration of Fundamental Problems in On-Line Computational Photogrammetry*, Purdue University, 1970, 205 pp. (Edward M. Mikhail)
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- James, Wesley P., *Air Photo Analysis of Waste Dispersion from Ocean Outfalls*, Oregon State University, 1970, 150 pp. (Fred J. Burgess)
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- Korpijaakko, Erikki O., *Aerial Interpretation of Muskeg: A Critical Analysis of Form Features in the Canadian Muskeg Complex*, McMaster University, 1970.
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- Wing, Richard S., *Structural Analysis from Radar Imagery, Eastern Panamanian Isthmus*, University of Kansas, 1970, 192 pp. 31/11-B 6699
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- Okang, Joseph P., *Comparative Study of Point Marking Devices and Their Suitability for Photogrammetric Problems*, Ohio State University, 1972, 160 pp. (Sanjib K. Ghosh)
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- Philip, Aldwyn T., *Independent Model Aerial Triangulation—Refinements and Error Studies*, Ohio State University, 1973, 174 pp. (Sanjib K. Ghosh)
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- Stewart, Rae A., *Aerodist Controlled Photography for Topographic Mapping*, Ohio State University, 1973, 306 pp. (Sanjib K. Ghosh)
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- Vincent, Robert K., *A Thermal Infrared Ratio Imaging Method for Mapping Compositional Variations Among Silicate Rock Types*, University of Michigan, 1973, 110 pp. (Henry N. Pollack)
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- Yassa, Guirguis F., *Adjustment of Aerial Triangulation Using Orthogonal Transformations*, Cornell University, 1973, 138 pp.
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