

INDEX TO  
PHOTOGRAMMETRIC ENGINEERING & REMOTE SENSING  
VOLUME XLI, 1975\*

A

- Abdel-Aziz, Dr. Youssef I.*  
distortion, 613  
lens distortion, 337
- Abrams, Dr. Talbert*, award donor, 899, 904
- ABSOLUTE ORIENTATION FROM INDEPENDENT-MODEL DATA,  
*Jeyapalan & Vivoli*, 217
- ABSTRACTS OF CONVENTION PAPERS, 771
- Accuracy  
*Forster*, triangulation, 533  
*Jones*, measurements, 331  
*Wong*, ERTS, 621
- ACCURATE PHOTOGRAMMETRY AND PHOTOGRAPHIC  
NONLINEARITIES, *Jones*, 331
- Ackermann, Prof. Dr.-Ing. F.*, aerotriangulation, 91
- ACTIVITIES AND WORK OF SUSTAINING MEMBERS OF ASP,  
842
- Adams, Fred*, award donor, 899, 907
- ADDRESS OF INCOMING PRESIDENT, *Wickham*, 925
- Aerial cameras, *Clegg et al.*, 1487
- Aerial photographs, urban health, *Rush & Vernon*,  
1149
- AERIAL PHOTOGRAPHY IN THE NOS COASTAL MAPPING  
DIVISION, *Keller*, 1005
- Aerial photography, cost, *Ulliman*, 491
- Aerotriangulation  
*Ackermann*, systematic errors, 91  
*Anderson*, Stuttgart symposium, 465  
*Elphinstone*, large block, 101  
*Erio*, independent models, 1117  
*Hou*,  
independent models, 347  
three pointings?, 539  
*Leberl*, interpolation, 603  
*Meehan*, production, 759  
*Shmutter*, adjacent models, 617  
*Wong*, variance, covariance, 82
- Aerotriangulation accuracy, *Forster*, 533
- Affine deformation, *Schoeler*, 764
- Agfacontour fulm, density slicing, *Rodriguez-Bejarano*,  
1031
- AIL award, 907
- AIRBORNE INFRARED THERMAL DETECTION OF CAVES AND  
CREVASSES, *Rinker*, 1391
- Aircraft fly-in, *Landen*, 183
- Airfield runway condition, *Gaucher*, 1259
- Airport  
*Gaucher et al.*, runway conditions, 1259  
*Keller*, charts, 1011
- Aldrich, Robert C.*, forest inventory, 39
- Allen, Dr. James R.*, ocean outfall, 721
- American Society of Photogrammetry, aims, (see also  
ASP), 831
- Analytical in-flight calibration, *Anderson & Lee*, 1337
- Analytics, *Leberl*, interpolation, 603
- Anderson, Arthur T.*, ERTS mosaic of U. S., 463
- Anderson, Dr. James M.*  
Comm. III symposium, 465  
in-flight calibration, 1337
- AN IMPROVED METHOD OF DIGITAL IMAGE CORRELATION,  
*Keating et al.*, 993
- ANOTHER MULTIBAND CAMERA FOR ARCHAEOLOGY,  
*Whittlesey*, 731
- Anson, Abraham*, photo use index, 225
- Archaeology, multiband, *Whittlesey*, 731
- Architecture, *Carbournell*, 1513
- Are three pointings necessary?, *Hou*, 539
- Artificial limbs, *Kratky*, 741
- Ashley, Marshall D.*, seasonal differences, 713
- ASP  
aims, 831  
corporate member list, 361  
emeritus members, 919  
financial statement for 1974, 976  
honorary members, 901  
mailing address, 5

- President *Wickham*, 320, 920, 925  
student members, 415  
sustaining members, 839
- ASYMMETRICAL LENS DISTORTION, *Abdel-Aziz*, 337
- AUTOCORRELATION FUNCTIONS IN STEREOSCOPY, *Trinder*,  
325
- AUTOMATED EDITING OF DIGITAL GRAPHIC DATA, *Sippel*,  
1047
- Automated interpretation, *Ulaby & McNaughton*,  
physiography, 1026
- AUTOMATED PATTERN RECOGNITION WITH THERMAL-IR  
IMAGERY, *Hsu*, 647
- Automatic camera, *Vigneron*, 1285
- AUTOMATIC EXPOSURE CONTROL FOR DUPLICATE FILM  
PROCESSING, *Lyon & Wakeman*, 1385
- AUTOMATIC PHOTOGRAMMETRIC CARTOGRAPHY *Dubuisson*,  
65
- AUTOMATIC RESEAU MEASURING EQUIPMENT, *Roos*, 1109
- Automation, *Masry et al.*, difference detection, 1145
- Autometric-Raytheon award, 910
- AWARDS AND CITATIONS OF ASP, 899
- AWARDS OF ISP, 921

B

- Bair, George L.*, stereoradar, 167
- Baker, Ralph N.*, geology, 1233
- Bartlett, D.*, coastal zone, 499
- Bathymetry, coastal mapping, *Keller*, 1009
- Bausch & Lomb award, 914
- Baxter, F. P.*, soil, land cover, 1519
- BAYESIAN DECISION THEORY AND REMOTE SENSING,  
*Jackson & Ragan*, 1139
- Beazley, Jan S.*, region of the year award, 917
- Beeman, William*, coal refuse, 1163
- Bendix OP-C, orthophoto printer, *Scarano & Jeric*, 991
- Bernstein, Ralph*, image processing, 1465
- Bidwell, Timothy C.*, remote sensing information, 1273
- Blink principle, *Masry et al.*, 1145
- Block triangulation, *Wong*, 821
- Bowker, Harold C.*, recipient of Bartlett award, 916
- Brock gold medal award, ISP, 921
- Brooks, D. J.*, water clarity, 1269
- Bundle adjustment, *Erio*, 1117

C

- Calibration, camera  
*Abdel-Aziz*, lens distortion, 337  
*Anderson & Lee*, in flight, 1337  
*Rampal*, ground control, 113
- CALIBRATION OF CLOSE-RANGE PHOTOGRAMMETRIC  
SYSTEMS: MATHEMATICAL FORMULATION, *Faig*, 1479
- Camera  
*Clegg et al.*, focal lengths, 1487  
*Keller*, coastal mapping, 1005  
*Vigneron*, automatic, 1285
- Carbournell, Maurice*, architecture, 1513
- Carlson, Gordon E.*, stereoradar, 167
- Cartographic accuracy, ERTS, *Wong*, 621
- Case, Dr. James B.*  
division report, 928  
new editor, 48, 601, 661
- Census, population, *Ogrofsky*, 707
- Chlorophyll detection, *Tucker et al.*, 1157
- Church, Prof. Earl, memorial address, *Quinn*, 595
- Circulatory surveys, *Keller*, 1009
- Citrus tree decline, *Edwards et al.*, 653
- Clapp, Dr. James L.*, water quality, 285
- CLASSIFICATION OF PHYSIOGRAPHY FROM ERTS IMAGERY,  
*Ulaby & McNaughton*, 1019
- Clegg, Capt. Robert H.*, cameras., 1487
- Close-range photogrammetry  
*Carbournell*, architecture, 1513  
*Faig*, calibration, 1479  
*Newton*, marine structures, 1541  
*Takasaki*, human body, 1527  
*Wong*, mathematics, 1355

\* An index is included in the last issue of each volume. Cumulative indexes were prepared for 1934-1948 and 1949-1958.

CLOSE-RANGE PHOTOGRAMMETRY AS AN AID TO MEASUREMENT OF MARINE STRUCTURES, *Newton*, 1501  
 COAL REFUSE SITE INVENTORIES, *Wobber* et al., 1163  
 COASTAL ZONE CLASSIFICATION FROM SATELLITE IMAGERY, *Klemas* et al., 499  
 Coastal zone  
   *Keller*, mapping photos, 1005  
   *Wobber*, remote sensing, 736  
 CODE OF ETHICS, ASP, 832  
 Coherent optics, *Gates*, 1349  
 COLLEGE AND UNIVERSITY SOURCES OF REMOTE SENSING INFORMATION, *Bidwell*, 1273  
 Color image maps, ERTS, *McEwen* et al., 479  
 Color infrared, *Wobber* et al., coal refuse, 1163  
 COLOR NEGATIVE AS A MULTIPURPOSE TOOL, *Jeter*, 1003  
 Color, runway conditions, *Gaucher* et al., 1259  
 Commission III symposium, *Anderson*, 465  
 Commission V papers, ISP, *Carbonnell*, etc., 1513  
 COMMITTEES OF THE SOCIETY (ASP), 801, 833  
 A COMPARISON OF 9-INCH, 70-MM AND 35-MM CAMERAS, *Clegg*, et al., 1487  
 Conformal adjustment, *Erio*, 1117  
 CONNECTING ADJACENT MODELS, *Shmutter*, 607  
 Contents (3rd of each issue), 3  
 Convention papers, abstracts, 771  
 CORPORATE MEMBERS, ASP, 361  
 Corrections, Skylab imagery, *Lockwood & Sauer*, 523  
 Correlation Image, *Keating* et al., 993  
 COST OF AERIAL PHOTOGRAPHY, *Ulliman*, 491  
 Council of ISP, 837  
 Cox, T. L., soil, land cover, 1519  
 Crawley, B. G., difference detection, 1145  
 Crops, from space, *Leamer* et al., 471  
*Cuellar, J. A.*, row crops, 1401  
 Curriculum, *Ghosh*, 1013  
 Currents, ocean, tidal, *Keller*, 1009  
 Currents, lake, *Yeske* et al., 637

## D

Data editing, graphic, *Sippel*, 1047  
 Decision theory, *Jackson & Ragan*, 1139  
 Deformation correction, *Schoeler*, 761  
 Deformations of structures, *Erlandson & Veress*, 1375  
 Densitometry  
   *Ashley & Rea*, seasonal change, 713  
   *Keating* et al., image correlation, 993  
   *Psuty & Allen*, ocean outfall, 723  
 DENSITY SLICING APPLIED TO FOREST TYPE DELINEATION, *Rodriguez-Bejarano*, 1029  
 DETECTING DISTURBANCES IN A FOREST ENVIRONMENT, *Aldrich*, 39  
 Development, photo corrections, *Lockwood & Sauer*, 523  
 Difference detection, *Masry* et al., 1145  
 Digital  
   *Keating* et al., image correlation, 993  
   *Sippel*, graphic data editing, 1047  
   *Wong*, close-range analysis, 1355  
 DIGITAL IMAGE PROCESSING, *Bernstein* et al., 1465  
 DIGITAL MODELING OF LIMBS IN ORTHOPAEDICS, *Kratky*, 741  
 Dilemma, teacher's, *Ghosh*, 1013  
 Distortion  
   *Abdel-Aziz*  
     film, 613  
     lens, 337  
   *Nielsen*, focal plane shutters, 199  
   *Schoeler*, correction, 761  
   *Wong*, ERTS imagery, 621  
 DMAAC, data editing, *Sippel*, 1047  
*Dobyns, S. W.*, recipient of Bartlett award, 916  
*Doyle, Irving*, Fairchild award donor, 899, 902  
*DuCharme, E. P.*, citrus trees, 653  
*Dubuisson, Dr. B. L. Y.*, automatic cartography, 65  
 Duplicate film processing, *Lyon & Wakeman*, 1385  
*Duys, F. P. Van der*, stereo field viewer, 1477

## E

Economics, aerial photography, *Ulliman* 491  
 Editing digital graphic data, *Sippel*, 1047  
*Edwards, George J.*, citrus trees, 653  
 Election results, ASP, 920  
*Eliel, Leon T.*, obituary, 498  
*Elphinstone, Gerald M.*, triangulation, 101  
 EMERITUS MEMBERS OF ASP, 919  
 ENGINEERING REPORTS, *Heath*, (in each issue), 112

*Erb, D. K.*, recipient of Bartlett award, 916  
*Erio, George*, independent models, 1117  
*Erlandson, J. P.*, structure deformations, 1375  
 EITORS  
   *Ackermann*, systematic, 91  
   *Jones*, nonlinear, 331  
   *Wong*  
     ERTS imagery, 621  
     propagation, 75  
 ERTS COLOR IMAGE MAPS, *McEwen & Schoemaker*, 479  
 ERTS  
   *Anderson*, mosaic of U.S., 463  
   *Ashley & Rea*, seasonal differences, 713  
   *Gausman* et al., iron-deficient sorghum, 177  
   *Klemas* et al., coastal zone, 499  
   *Lawrence & Herzog*, geology, forestry, 1241  
   *Ulaby & McNaughton*, physiography, 1019  
   *Wong*, accuracy, 621  
 EXECUTIVE DIRECTOR REPORT, *Jacobs*, 925  
 Exposure control, dup. film, *Lyon & Wakeman*, 1385  
 Eye, human, mapping, *Kratky*, 49

## F

*Faig, Prof. Dr.-Ing. Wolfgang*, close-range, 1479  
 Fairchild award, 902  
*Fernyhough, Dallam G., Jr.*, image processing, 1465  
 FILM DISTORTION IN NON-METRIC CAMERAS, *Abdel-Aziz*, 613  
 Film  
   *Lockwood & Sauer*, corrections to, 523  
   *Lyon & Wakeman*, exposure control, 1385  
 FINANCIAL STATEMENT, ASP, 1974, 976  
 FIRST ERTS-1 MOSAIC OF THE U.S., *Anderson*, 463  
*Fischer, William A.*, honorary doctorate, 1065  
 FLIGHT PLANNING FOR STEREO RADAR MAPPING, *Graham*, 1131  
 Fly-in, remote sensing, *Landen*, 183  
 Focal-plane shutter distortion, *Nielsen*, 199  
 FORD BARTLETT AWARD, 916  
 Forest(ry)  
   *Aldrich*, inventory, 39  
   *Lawrence & Herzog*, ERTS data, 1241  
   *Myers*, rock outcrops, 515  
   *Nielsen*, focal-plane shutters, 199  
   *Rodriguez-Bejarano*, delineation, 1029  
*Forster, Bruce C.*, triangulation, 533  
*Foster, H. Dell*, recipient of Fairchild award, 902  
 FOURIER SPECTRA FOR NON-HOMOGENEOUS PATTERNS, *Polis*, 321

## G

*Gates, J. W. C.*, laser, 1349  
*Gaucher, David W.*, runway conditions, 1259  
*Gausman, H. W.*  
   row crops, 1401  
   sick sorghum detection, 177  
*Gebermann, A. H.*  
   row crops, 1401  
   sick sorghum detection, 177  
 GEOLOGY AND FORESTRY CLASSIFICATION FROM ERTS-1 DIGITAL DATA, *Lawrence & Herzog*, 1241  
 Geology  
   *Baker*, Landsat data, 1233  
   *Lawrence & Herzog*, classification, 1241  
   *Qiel*, thermal-IR, 341  
 Geography, population, *Ograsky*, 707  
 GEOMETRIC AND CARTOGRAPHIC ACCURACY OF ERTS-1 IMAGERY, *Wong*, 621  
*Ghosh, Dr. Sanjib K.*  
   Krakow symposium, 1144  
   teacher's dilemma, 1013  
*Gill, M. Charlene*, newsletter editor, 121, 239, 661  
*Graham, L. C.*, radar mapping, 1131  
 Graphic data editing, *Sippel*, 1047  
*Green, Dr. Theodore, III*  
   lake currents, 637  
   thermal plumes, 1223  
*Greer, J. D.*, radar, 1043  
 GROUND DIMENSION FROM SLANT-RANGE RADAR, *Greer*, 1043  
 Gruber, Otto von, award, ISP, 923

## H

*Halonon, Prof. R. S.*, obituary, 1171  
*Harley, Ian A.*, recipient of Bartlett award, 916  
 Health, urban, *Rush & Vernon*, 1149

Heath, Gordon R., engineering reports (in each issue), 112

HEIGHT MEASUREMENT WITH STEREO-RADAR, *Bair & Carlson*, 167

Henderson, Dr. Floyd M., radar, land use, 307

Herzog, James H., geology, forestry, 1241

Hilborn, W. H., difference detection, 1145

Hitchcock, H. C., soil, land cover, 1519

Hobbie, Dr.-Ing. Dierk recipient of Abrams honorable mention award, 905

HONORARY MEMBERS OF ASP, 901

award for 1975, 900

Hou, Dr. Michael Cheng-Yeh, aerotriangulation

independent models, 347

three pointings?, 539

Hsu, Shin-yi, pattern recognition, 647

Human measurement, *Takasaki*, 1527

## I

Image

*Bernstein* et al., processing, 1465

*Keating* et al., correlation, 993

*Wong*, ERTS, accuracy, 621

IMPROVED METHOD OF DIGITAL IMAGE CORRELATION,

*Keating* et al., 993

Increasing productivity in photogrammetry, *Meehan*, 753

Index to Advertisers (9th page of each issue), 9

Index, photogrammetric uses, *Anson*, 225

Independent models

*Erio*, transformations, 1117

*Hou*, A-7 and A-8, 347

*Jeyapalan* et al., orientation, 217

*Shmutter*, adjacent, 617

INDEPENDENT MODELS WITH THE A-7 AND A-8, *Hou*, 347

Infrared

*Jeter*, color negative, 1003

*Rinker*, ice caves, crevasses, 1391

*Wobber* et al., coal refuse, 1163

In-situ rock reflectance, *Raines & Lee*, 189

INSTALLATION OF ASP OFFICERS, 920

INTERNATIONAL SOCIETY OF PHOTOGRAMMETRY, 465, 836,

921, 1144

Interpretation

*Edwards* et al., citrus tree decline, 653

*Hsu*, automated, 647

*Klemas* et al., coastal zone, 499

*Leamer* et al., soils, crops, 471

*Masry* et al., difference detection, 1145

*Myers*, forestry, 515

*Ulaby & McNaughton*, physiography, 1019

Interpolation, *Leberl*, 603

Inventories, *Wobber*, coal refuse, 1163

ISP, 465, 836, 921, 1144

ISP COMMISSION III SYMPOSIUM, *Anderson*, 836

## J

*Jackson, Thomas J.*, decision theory, 1139

*Jacobs, Lawrence P.*, executive director's report, 924

*Jawalai, Wicha*, recipient of Wild-Heerbrugg award, 913

*Jeric, Anthony*, orthophoto, 977

*Jeter, Fred P.*, color negative, 1003

*Jeyapalan, Dr. K.*, absolute orientation, 217

*Jones, Robert A.*, accuracy, 331

JOURNAL STAFF, 832

*Judkins, Rex G.*, region of the year award, 917

## K

*Karara, Prof. Houssam M.*, 1974 recipient of Fairchild award, 903

*Keating, Dr. Terrence J.*, image correlation, 993

*Keller, Morton*

circulatory surveys, 1123

aerial photography, 1005

Kern PG-2 plotter, *Meehan*, 753

*Kilgore, Timothy R.*, recipient of Bausch & Lomb award, 914

*Klemas, V.*, coastal zone, 499

*Koopmans, B. N.*, SLAR flights, 299

Krakow symposium, *Ghosh*, 1144

*Kratky, Dr. Vladimir*

ophthalmology, 49

orthopaedics, 741

## L

Land cover analysis, *Hitchcock* et al., 1519

Land use

*Henderson*, mapping, 307

*Klemas* et al., coastal zone, 499

*Nichol*, photomorphologic mapping, 1253

*Landen, David*, remote-sensing fly-in, 183

Landing strip condition, *Gaucher* et al., 1259

LANDSAT DATA: A NEW PERSPECTIVE FOR GEOLOGY, *Baker*, 1233

LANDSAT MEASURES OF WATER CLARITY, *Brooks*, 1269

LARGE BLOCK SAPGO PROGRAM, *Elphinstone*, 101

Laser, measurement, *Gates*, 1349

*Laurence, Robert D.*, geology, forestry, 1241

*Leamer, Ross W.*, soils, crops, 471

*Leberl, Dr. Franz*, interpolation, 603

*Lee, Clement*, in-flight calibration, 1337

*Lee, Dr. Keenan*, rock reflectance, 189

Lens distortion, asymmetric, *Abdel-Aziz*, 337

*Leshendok, Thomas*, coal refuse, 1163

*Lillesand, Dr. Thomas M.*, water quality, 285

Limbs, artificial, *Kratky*, 741

*Lockwood, Harold E.*, Skylab imagery, 523

LogE printer, *Meehan*, 753

*Loving, Hugh B.*, ASP first vice president, 920

LUIS STRUCK AWARD, 912

*Lyon, Ruth*, film exposure control, 1385

## M

*Madding, Dr. R. P.*, thermal plumes, 1223

*Makarovic, Branko*, recipient of Bartlett award, 916

Management, resources, *Wobber*, 735

MANUAL OF REMOTE SENSING, 1039

Mapping

*Nichol*, land use, 1253

*Wobber* et al., coal refuse, 1163

Maps, ERTS color image, *McEwen* et al., 479

*Martin, Frank H.*, obituary, 662

*Masry, Dr. Salem E.*, difference detection, 1145

MATHEMATICAL FORMULATION AND DIGITAL ANALYSIS IN CLOSE-RANGE PHOTOGRAMMETRY, *Wong*, 1355

MATRA TYPE 910 AUTOMATIC THIRD CAMERA, *Vigneron*, 1285

*McEwen, Robert B.*, ERTS color images, 479

*McNaughton, James*, ERTS physiography, 1019

*McNeil, Gomer T.*, recipient of honorary member

MEASUREMENT OF LAKE CURRENTS, *Yeske* et al., 637

*Meehan, Ray J.*, productivity, 753

Members of ASP

Emeritus, 919

Honorary, 899

Regular, corporate, 361

Student, 415

Sustaining, 839

Memorial address, Prof. Church, *Quinn*, 595

*Merchant, Prof. Dean C.*, recipient of Abrams award, 904

*Miller, George S.*, obituary, 793

*Miller, Lee D.*, prairie spectra, 1157

Mixing zone, water quality, *Lillesand* et al., 285

Modulation transfer functions, *Norton*, 203

Moiré topography, *Takasaki*, 1527

MONITORING DEFORMATIONS OF STRUCTURES, *Erlandson* et al., 1375

Monocomparator

*Meehan*, productivity, 753

*Roos*, reseau measuring, 1111

MORE ON DISTORTIONS BY FOCAL-PLANE SHUTTERS

*Nielsen*, 199

Mosaics, ERTS

*Anderson*, of the U. S., 463

*McEwen* et al., color, 479

Multiband camera, archaeology, *Whittlesey*, 731

Multipurpose negative, *Jeter*, 1003

MULTISPECTRAL SENSING OF CITRUS YOUNG TREE DECLINE,

*Edwards* et al., 653

*Myers, Brian J.*

forestry, 515

stereo-field viewer, 1477

## N

NAMES & ADDRESSES OF SUSTAINING MEMBERS OF ASP, 839

Newsletter (near end of each issue), 119

*Newton, Ian*, marine structures, 1501

*Nichol, Janet E.*, land use, 1253

*Nielsen, U.*, focal-plane shutters, 199

NOMENCLATURE COMMITTEE OF ASP, 926  
Nonlinearities, errors, *Jones*, 331  
*Norton, Clarice L.*, optical transfer functions, 203

## O

### Obituaries

*Eliel*, 498  
*Halonen*, 1171  
*Martin*, 662  
*Miller*, 793  
*Simpson*, 241  
*Smith, Sidney W.*, 548  
*Whelan*, 356

### Ocean

*Keller*, currents  
measurement, 1123  
photography, 1009  
*Psuty & Allen*, outfall plumes, 721

OFFICERS OF ASP (7th page of each issue), 7  
OFF-LINE ORTHOPHOTO PRINTER, *Scarano & Jeric*, 977  
*Ogrosky, Charles E.*, population estimates, 707  
ON PHOTOGRAMMETRIC DISTORTION, *Schaefer*, 761  
OPHTHALMOLOGIC STEREOPHOTOGRAPHY, *Kratky*, 49  
OPTICAL AND MODULATION TRANSFER FUNCTIONS, *Norton*, 203

OPTIMUM GROUND CONTROL FOR CAMERA CALIBRATION,  
*Rampal*, 113

Orientation, absolute, *Jeyapalan et al.*, 217  
Orthopaedics, *Kratky*, 741  
Orthophoto printer, *Scarano & Jeric*, 977  
OTTO VON GRUBER AWARD, ISP, 923  
Outfall plumes, *Psuty & Allen*, 721

## P

*Palmer, C. Earl*, recipient of Bartlett award, 916  
Papers, convention, abstracts, 771  
Parallax, heights, radar, *Bair & Carlson*, 167  
PATTERN RECOGNITION OF SOILS AND CROPS FROM SPACE,  
*Leamer et al.*, 471  
Pattern recognition, *Hsu*, 647  
*Pearson, Robert L.*, prairie spectra, 1157  
*Peo, George E., Sr.*, recipient of Bartlett award, 916  
PHOTOGRAMMETRIC CIRCULATORY SURVEYS, *Keller*, 1123  
PHOTOGRAMMETRIC INTERPOLATION, *Leberl*, 603  
PHOTOGRAMMETRIC SURVEYS DIVISION, 223  
PHOTOGRAMMETRIC SURVEYS DIVISION REPORT, *Case*, 928  
Photogrammetric  
award, *Fairchild*, 902  
distortion, *Schoeler*, 761  
Engineering, definition (9th page of each issue), 9  
PHOTOGRAMMETRY AS A SCIENCE AND AS A TOOL (AN  
INDEX), *Anson*, 225  
PHOTOGRAPHY DIVISION REPORT, 927

### Photography

*Keller*, coastal mapping, 1005  
*Lockwood & Sauer*, corrections to, 523  
*Lyon & Wakeman*, film processing, 1385  
*Ulliman*, cost of aerial, 491  
PHOTOMORPHIC MAPPING FOR LAND-USE PLANNING, *Nichol*, 1253  
Physiography from ERTS, *Ulaby & McNaughton*, 1019  
*Piech, Kenneth R.*, runway conditions, 1259  
PLANT, SOIL, AND SHADOW REFLECTANCE COMPONENTS OF  
ROW CROPS, *Richardson et al.*, 1401

### Plotter

*Hou, Wild*, independent models, 347  
*Meehan, Kern*, productivity, 753

### Plumes

*Psuty & Allen*, ocean, 721  
*Scarpace et al.*, thermal, 1223  
*Polis, Dennis F.*, fourier spectra, 321  
Pollution  
*Brooks*, water, 1269  
*Lillesand et al.*, water, 285  
*Psuty & Allen*, ocean outfall, 721  
*Scarpace et al.*, air, 1223  
*Wobber et al.*, coal refuse, 1163

POPULATION ESTIMATES FROM SATELLITE IMAGERY,  
*Ogrosky*, 707

Prairie spectral measurements, *Tucker et al.*, 11157

PRESIDENT OF ASP *Wickham*, 320

PRESIDENTIAL CITATIONS, 918

PROCESSING CORRECTIONS FOR SKYLAB PHOTOGRAPHIC  
IMAGERY, *Lockwood & Sauer*, 523

Processing, image, *Bernstein et al.*, 1465

Productivity, employee, *Meehan*, 753

PROFESSIONAL DIRECTORY (approx. 32nd page of each  
issue), 36

PROFESSIONAL PLACEMENT (near end of each issue), 119

PROFESSOR EARL CHURCH, *Quinn*, 595

PROPAGATION OF VARIANCE AND COVARIANCE, *Wong*, 75

Prostheses, *Kratky*, 741

*Psuty, Dr. Norbert P.*, ocean outfall, 721

Public Health, *Rush & Vernon*, 1149

PUBLICATIONS OF ASP, 835

PUG, *Wild, Meehan*, 756

## Q

*Quiel, Fredrich*, geology, thermal-IR, 341

*Quinn, Alfred O.*

memorial address, Prof. Church, 595

recipient of honorary member award, 901

## R

RADAR FOR SMALL-SCALE LAND-USE MAPPING, *Henderson*, 307

### Radar

*Bair & Carlson*, heights, 167

*Graham*, mapping, 1131

*Greer*, slant-range, 1043

*Koopmans*, side-looking, 299

*Ragan, Robert M.*, decision theory, 1139

*Raines, Gary L.*, rock reflectance, 189

*Rampal, Kunwab K.*, camera calibration, 113

Range land, *Tucker et al.*, 1157

*Rea, James*, seasonal differences, 713

### Reflectance

*Raines*, rocks, 189

*Richardson et al.*, row crops, 1401

REGION OF THE YEAR AWARD, 917

REGIONAL CHAPTERS OF ASP, 834

REGULAR MEMBERS OF ASP, 361

REMOTE SENSING AND URBAN PUBLIC HEALTH, *Rush & Vernon*, 1149

REMOTE SENSING DIVISION REPORT, *McEwen*, 929

REMOTE-SENSING FLY-IN, *Landen*, 183

REMOTE SENSING TRENDS IN STATE RESOURCES  
MANAGEMENT, *Wobber*, 735

### Remote sensing

*Aldrich*, forestry, 39

*Bidwell*, information, 1273

*Edwards et al.*, citrus trees, 653

*Jackson & Ragan*, decision theory, 1139

*Rush & Vernon*, urban health, 1149

### Reseau

*Roos*, measuring, 1109

*Schoeler*, distortion, 767

Resources management, *Wobber*, 735

RESULTS OF RECENT TESTS IN AERIAL TRIANGULATION,  
*Ackermann*, 91

Retina, eye, mapping, *Kratky*, 49

*Reynolds, Kenneth E.*, award donor, 899, 913

*Richardson, A. J.*, row crops, 1401

*Rinker, Jack N.*, IR, caves, crevasses, 1391

ROCK OUTCROPS BENEATH TREES, *Myers*, 515

Rock reflectance, *Raines & Lee*, 189

*Rodriguez-Bejarano, Dario*, forestry, 1029

*Rogers, R.*, coastal zone, 499

ROOS, *Maurits*, reseau measurement, 1109

Root-mean-square errors, *Wong*, 75

Row crops, reflectance, *Richardson et al.*, 1401

*Rush, Dr. Marjorie*, public health, 1149

## S

*Saenz, Jose A.*, recipient of Luis Struck award, 912  
Satellite

*Klemas et al.*, imagery, coastal zone, 499

*Ogrosky*, population estimates, 707

*Sauer, Dr. Gerard E.*, skylab imagery, 523

Scale, remote sensing, *Jackson & Ragan*, 1139

SCANNING THERMAL PLUMES, *Scarpace et al.*, 1223

*Scarano, Frank*, orthophoto, 977

*Scarpace, Dr. Frank L.*

image correlation, 993

lake currents, 637

thermal plumes, 1223

water quality, 285

*Schehl, Tom*, citrus trees, 653

*Scherz, Prof. James P.*, cameras, 1487

*Schoeler, Horst*, distortion, 761

*Schoonmaker, James W., Jr.*, ERTS color images, 479

SEASONAL VEGETATION DIFFERENCES FROM ERTS IMAGERY,  
*Ashley & Rea*, 713

- SEMI-ANALYTIC AEROTRIANGULATION, *Hou* (see also INDEPENDENT MODELS), 347
- Sewage, ocean outfall, *Psuty & Allen*, 721
- Shadow reflectance, row crops, *Richardson et al.*, 1401
- Shmutter, B.*, model connection, 617
- Shoreline mapping, *Keller*, 1007
- SHORTGRASS PRAIRIE SPECTRAL MEASUREMENTS, *Tucker et al.*, 1157
- Shutter distortion, focal-plane, *Nielsen*, 199
- Side-looking radar  
*Koopmans*, flight parameters, 299  
*Leberl*, interpolation, 608
- Simpson, Albert Edward*, Obituary, 241
- SIMULTANEOUS ALL-AROUND MEASUREMENT OF A LIVING BODY BY MOIRÉ TOPOGRAPHY, *Takasaki*, 1527
- Sipple, James J.*, digital data, 1047
- SKYLAB  
*Klemas et al.*, coastal zone, 499  
*Lockwood & Sauer*, imagery, 523  
*Ogrosky*, population estimates, 707
- SLAR  
*Koopmans*, flight parameters, 299  
*Leberl*, interpolation, 608
- Small-scale photos, *Wobber et al.*, 1163
- Smart, C. W.*, soil, land cover, 1519
- Smedes, Dr. Harry W.*, recipient of AIL award, 907
- Smith, Sidney W.*, obituary, 1116
- SOIL AND LAND COVER OVERLAY ANALYSES, *Hitchcock et al.*, 1519
- Soil(s)  
*Leamer et al.*, from space, 471  
*Richardson et al.*, reflectance, 1401
- Sorghum, iron deficient, *Gausman et al.*, 177
- Space  
*Aldrich*, forest imagery, 39  
*Leamer et al.*, crops, soils, 471  
*Klemas et al.*, coastal zone imagery, 499
- SPECTRAL COLOR ANALYSIS OF RUNWAY CONDITIONS, *Gaucher et al.*, 1259
- Spectral measurements, prairie, *Tucker et al.*, 1157
- State resources, *Wobber*, 735
- Steakley, Joe E.*, new journal name, 38
- Stereo radar mapping, *Graham*, 1131
- Stereomate, orthophoto, *Scarano & Jeric*, 977
- Stereoradar, *Bair & Carlson*, 167
- A STEREOSCOPIC FIELD VIEWER, *Meyers & Duys*, 1477
- Stereoscopy, autocorrelation, *Trinder*, 325
- Stockpile inventory, *Meehan*, 756
- Strip adjustment, *Ackermann*, 91
- Struck, Luis, Award, 912
- Structure deformations, *Ernandson & Veress*, 1379
- STUDENT MEMBERS OF ASP, 415
- Stuttgart symposium, *Anderson*, 465
- Symposiums, ISP  
*Anderson*, Comm. III, 465  
*Ghosh*, Comm. VI, 1144
- SUSTAINING MEMBERS OF ASP, 839
- Systematic errors  
*Ackermann*, aerotriangulation, 91  
*Wong*, variance, covariance, 75
- T**
- TABLE OF CONTENTS (3rd and 5th pages of each issue), 3
- Takasaki, Hiroshi*, close range, human body, 1527
- Talley, General B. B.*  
in Alaska, 356  
recent postal address, 1065
- Tangential distortion, *Schoeler*, 765
- Tayman, William T.*, book review, 111
- TEACHER'S DILEMMA, *Ghosh*, 1013
- TECHNICAL PROGRESS IN ARCHITECTURAL PHOTOGRAMMETRY, *Carbournell*, 1513
- Tewinkel, G. C.*, editorial consultant, 48
- THERMAL-IR IN GEOLOGY, *Quiel*, 341
- Thermal-IR, caves, crevasses, *Rinker*, 1391
- Thermal plumes, *Scarpace et al.*, 1223
- Third Camera, *Vigneron*, 1285
- THREE-DIMENSIONAL LOCATION AND MEASUREMENT BY COHERENT OPTICAL METHODS, *Gates*, 1349
- THREE-DIMENSIONAL TRANSFORMATIONS OF INDEPENDENT MODELS, *Erio*, 1117
- Tidal currents, *Keller*, 1123
- Transformations, 3-D, *Erio*, 1117
- Tree height, focal-plane shutters, *Nielsen*, 199
- TREND-SURFACE ANALYSIS OF OCEAN OUTFALL PLUMES, *Psuty & Allen*, 721
- Triangulation (see aerotriangulation)
- Trinder, Dr. J. C.*, stereoscopy, 325
- Tucker, Compton J.*, prairie, spectra, 1157
- Turinetti, Capt. James D.*, runway conditions, 1259
- U**
- Ulaby, Fawwaz T.*, ERTS, physiography, 1019
- Ulliman, Joseph J.*, cost of photos, 491
- United States, mosaic, *Anderson*, 463
- University remote sensing information, *Bidwell*, 1273
- Urban public health, *Rush & Vernon*, 1149
- Urner, Joseph*, award donor, 899, 900, 910
- USE OF ERTS-1 DATA TO DETECT CHLORIC GRAIN SORGHUM, *Gausman et al.*, 177
- V**
- VARIABLE FLIGHT PARAMETERS FOR SLAR, *Koopmans*, 299
- Vegetation differences, seasonal, *Ashley & Rea*, 713
- Ven Vertloh, Thomas*, award donor, 899, 914
- Veress, Dr. S. A.*, structure deformations, 1375
- Vernon, Sally*, public health, 1149
- Versamat processor, *Meehan*, 753
- Viewer, stereo, *Myers & Duys*, 1477
- Vigneron, C.*, automatic camera, 1285
- Vivoli, Pete*, absolute orientation, 217
- Vizy, Kalman N.*, recipient of Autometric-Raytheon award, 910
- VON GRUBER AWARD, ISP
- W**
- Wakeman, Robert*, film exposure control, 1385
- Waste  
*Lillesand et al.*, water, 285  
*Wobber et al.*, coal, 1163
- Water currents  
*Keller*, tidal, 1123  
*Yeske et al.*, lake, 637
- WATER QUALITY IN MIXING ZONES, *Lillesand et al.*, 285
- Water quality  
*Brooks*, LANDSAT, 1269  
*Psuty & Allen*, ocean outfall, 721
- Weber, Daniel A.*, crops, soils, 471
- Welch, Prof. Roy A.*, region of the year award, 917
- Wetlands mapping  
*Keller*, photography, 1005  
*Wobber*, remote sensing, 736
- Whelan, Daniel E., Jr.*, obituary, 356
- Whittlesey, Julian H.*, archaeology, multiband, 731
- Wickham, John H., Jr.*  
address of incoming president, 925  
ASP president, 320, 920
- Wiegand, Craig L.*  
sick sorghum detection, 177  
row crops, 1401  
soils, crops, 471
- Wier, Charles E.*, coal refuse, 1163
- WILD HEERBRUGG AWARD, 913
- Wobber, Dr. Frank J.*  
coal refuse, 1163  
resources management, 735
- Wolf, Dr. Paul R.*  
image correlation, 993  
photogrammetry textbook, 1011
- Wong, Dr. Kam W.*  
accuracy, 621  
close-range photogrammetry, 1355  
variance, covariance, 75
- X, Y, Z**
- Yassa, Dr. Guirguis*, recipient of Abrams award, 905
- Yearbook, July issue, 797
- Yesky, Lanny*, lake currents, 637
- Zoom lenses, *Clark*, book review, 111