

13. Congress Time Table-Emploi du Temps du Congrès-Zeitplan des Kongresses

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|---------------|------------------------------------|---|
| June 30, Thu. | 10 : 00—16 : 00 | Registration at KICH |
| July 1, Fri. | 9 : 00—16 : 00 | Registration at KICH |
| | 10 : 00—12 : 00 | Opening Ceremony (Main Hall) |
| | 12 : 00—13 : 30 | Lunch Party for Accompanying Persons |
| | 13 : 30—17 : 00 | Plenary Session 1 : Introduction of New Instruments (Main Hall) |
| | 17 : 30— 18 : 30—21 : 00 | Opening of Commercial Exhibition Exhibitors Party at KICH |
| July 2, Sat. | 9 : 00—10 : 30 | Technical Sessions : T-1, T-2, T-3 |
| | 11 : 00—12 : 30 | Technical Sessions : T-4, T-5, T-6 |
| | 13 : 30—15 : 00 | Technical Sessions : T-7, T-8, T-9 |
| | 15 : 30—17 : 30 | Poster Session : P-1 |
| | 15 : 30—18 : 00 18 : 30—21 : 00 | General Assembly : G-1 Welcome Party at KICH |
| July 3, Sun. | 9 : 00—10 : 30 | Technical Sessions : T-10, T-11, T-12 |
| | 11 : 00—12 : 30 | Technical Sessions : T-13, T-14, T-15 |
| | 13 : 30—15 : 00 | Technical Sessions : T-16, T-17, T-18 |
| | 15 : 30—17 : 30 | Poster Session : P-2 |
| | 15 : 30—18 : 00 | General Assembly : G-2 |
| July 4, Mon. | 9 : 00—10 : 30 | Technical Sessions : T-19, T-20, T-21 |
| | 11 : 00—12 : 30 | Technical Sessions : T-22, T-23, T-24 |
| | 13 : 30—15 : 00 | Technical Sessions : T-25, T-26, T-27 |
| | 15 : 30—17 : 30 | Poster Session : P-3 |
| | 18 : 30—21 : 00 | Beer Party |
| July 5, Tue. | | Technical Tours |
| July 6, Wed. | 9 : 00—10 : 00 | Business Meetings : B-1, 2, 3 |
| | 11 : 00—12 : 30 | Business Meetings : B-4, 5, 6, 7 |
| | 13 : 30—15 : 00 | Technical Sessions : T-28, T-29, T-30 |
| | 15 : 30—17 : 30 | Poster Session : P-4 |
| | 15 : 30—18 : 00 | General Assembly : G-3 |
| July 7, Thu. | 9 : 00—10 : 30 | Technical Sessions : T-31, T-32, T-33 |
| | 11 : 00—12 : 30 | Technical Sessions : T-34, T-35, T-36 |
| | 13 : 30—15 : 00 | Technical Sessions : T-37, T-38, T-39 |
| | 15 : 30—17 : 30 | Poster Sessions : P-5 |
| | 18 : 30—21 : 00 | Yakitori Party |
| July 8, Fri. | 9 : 00—10 : 30 | Technical Sessions : T-40, T-41, T-42 |
| | 11 : 00—12 : 30 | Technical Sessions : T-43, T-44, T-45 |
| | 13 : 30—15 : 00 | Technical Sessions : T-46, T-47, T-48 |
| | 15 : 30—17 : 30 | Poster Session : P-6 |
| | 15 : 30—18 : 00 | General Assembly : G-4 |
| July 9, Sat. | 9 : 00—10 : 30 | Technical Sessions : T-49, T-50, T-51 |
| | 11 : 00—12 : 30 | Technical Sessions : T-52, T-53, T-54 |
| | 13 : 30—15 : 00 | Technical Sessions : T-55, T-56, T-57 |
| | 15 : 30—17 : 30 | Poster Session : P-7 |
| | 18 : 30—21 : 00 | Banquet |
| July 10, Sun. | 9 : 00—10 : 30 | Plenary Session 2 : Technical Advancements |
| | 11 : 00—12 : 30 | Closing Ceremony |
| July 11, Mon. | | Technical Tours in Tokyo Area |
| July 12, Tue. | | Technical Tours in Tokyo Area |

July 2, 1988 Saturday
09:00—10:30

Room A

T01 Commission VII
Human Settlements
Co-Chairmen: W.G. Collins(United Kingdom)
B.C. Forster (Australia)
Detection of City Growth Areas Using SPOT Image Interpretation
V.F.L. Polle(The Netherlands)
On the Estimation of Energy Losses from Municipal Heating Networks by Using IR-Thermography
S.R.J. Axelsson(Sweden)
Urban Density Monitoring Using High Resolution Spaceborne Systems
B.C. Forster and C. Jones(Australia)
Environmental Impact of the Urban Growth on the Western Sao Paulo Metropolitan Area
C. Foresti(Brazil)
A Raster Approach to Population Estimation Using High-Altitude Aerial and Space Photographs
C.P. Lo(U.S.A.)

Room B-1

T02 Commission III
Mathematical Analysis of Data
Chairman: E. Kilpelä(Finland)
Report on the Activities of Commission III 1984—1988
E. Kilpelä(Finland)
Bandwidth Minimization Using the Method of Simulated Annealing
J.M. Goldfarb and M.A. Chapman(Canada)
Object-Oriented Approaches in the Design of More Capable (Adjustment) Systems
T. Sarjakoski(Finland)
Progress in Knowledge Engineering for Image Interpretation and Classification
N.J. Mulder, H. Middelkoop and J. Miltenburg (The Netherlands)
Computer Graphics Techniques for Generating Terrain and Landscape Visualisations
R.A. McLaren and T.J.M. Kennie(United Kingdom)

Room B-2

T03 Commission VI
History/Professional Practice and Technical Cooperation
Chairman: Z. Sitek(Poland)
From the Balloon Camera to the Micro-processor—controlled LMK Aerial Survey Camera System
N. Dietsch(German Dem.Rep.)
Consulting Activities at ITC
E.W. Holland(The Netherlands)
Development of Photogrammetry in the Republic of Korea
B. Yeu, J. Choi and J. Yom(Korea)

July 2, 1988 Saturday
11:00—12:30

Room A

T04 Commission VII
High Spectral Resolution, Atmospheric Effects and Radiometry
Chairman: G. Guyot(France)
Review of the Calibration of Radiometric Measurements from Satellite to Ground Level
P.N. Slater(U.S.A.)
Simulation of ERS-1/OPS by the Use of Airborne Spectroradiometer
H. Watanabe and T. Osanai(Japan)
Detection of Spectral Effects in Individual Tree Crowns of Metal-Injected Trees Using High-Resolution Push-broom Imagery
J.R. Miller, M.G. Boyer(Canada), J. Wu(China Beijing), R.P. Gauthier, E. W. Hare and M. Belanger(Canada)
High Spectral Resolution: Determination of Spectral Shifts between the Red and Near Infrared
G. Guyot, F. Baret(France) and D.J. Major(Canada)
On a Conversion of Airborne MSS Data into Reflectance by Using a Simulation Model
M. Shikada, K. Miyakita and Y. Haba(Japan)

Room B-1

T05 Commission III
Integrated Network Design/Point Positioning Using Linear Array Imagery
Chairman: H. Ebner(F.R. Germany)
A Planning Strategy for Combined Photogrammetric Blocks and Terrestrial Networks
M. Molenaar(The Netherlands)
On the Reliability of Additional Parameters
D. Li and W. Foerstner(China)
Combined Point Determination Using Digital Data of Three Line Scanner Systems
O. Hofmann and F. Müller (F.R. Germany)
SPOT Imagery Orientation with Auxiliary Satellite Position and Attitude Data
R. Shibasaki, S. Murai and T. Okuda(Japan)

Room B-2

T06 Commission VI
Status of Education in Photogrammetry and Remote Sensing
Chairman: A.J. Brandenberger (Canada)
An Analysis of Photogrammetry and Remote Sensing Education in Australasia and Oceania
A. Adamec and G.P. Ellis(Australia)
The Education of Surveying Engineers at the Universities of the Federal Republic of Germany in the Special Section of Photogrammetry and Remote Sensing
H. Kantelhardt(F.R. Germany)
Teaching Photogrammetry in Developing Countries
J. Badekas(Greece)

July 2, 1988 Saturday
13:30—15:00

Room A

T07 Commission VII
Spatial Information Extraction
Chairman: F. Quiel(Sweden)
Satellite Environmental Monitoring in Support of Global Food Security and Desert Locust Plague Prevention at FAO: the ARTEMIS System
J.U. Hielkema(Italy/FAO)
Region Extraction in SPOT Data
H. Egawa and T. Kusaka(Japan)
Topographic Feature Extraction Based on Context Dependant Filters
B.G.H. Gorte and N.J. Mulder(The Netherlands)
Comparative Analysis of Landsat-5 TM and SPOT HRV Data in Kanazawa Region
S. Ueno, Y. Kawata and T. Kusaka(Japan)
Linear Feature Extraction and Road Recognition from Large Scale Digital Aerial Images
M.J.P.M. Lemmens, E.W. Bruel and F. Fennis(The Netherlands)

Room B-1

T08 Commission III
Aerial Triangulation Using GPS, INS and DTM Data
Chairman: M. Molenaar(The Netherlands)
Combined Adjustment of Airborne Navigation Data and Photogrammetric Blocks
F. Ackermann(F.R. Germany)
GPS in Large Scale Photogrammetry, Practical and Simulated Investigations
G.H. Ligterink(The Netherlands)
Feasibility of Using Auxiliary Data from an Inertial Navigation System for Aerial Triangulation
J.E. Julia, C.A. Lizana, E. Rolle and W.O. Williams(Argentina)
Combined Point Determination Using Digital Terrain Models as Control Information
H. Ebner and G. Strunz(F.R. Germany)
The Accuracy Potential of Self-Calibrating Aerial Triangulation without Control
A. Gruen and A. Runge(Switzerland)

Room B-2

T09 Commission VI
New Trends in Photogrammetry and Remote Sensing Education
Chairman: J. Hothmer(F.R. Germany)
Curriculum in Photogrammetry-A World Consensus
S.K. Ghosh(Canada)
L'Enseignement du Pointe Stereoscopique: Une Solution Nouvelle a un Probleme Permanent
J.-P. Agnard and P.-A. Gagnon(Canada)
Interactive Training System Using a Personal Computer
K. Cho(Japan)
Task of Photogrammetric and Remote Sensing Education (Activity Report of ISPRS Working Group VI-7)
S.K. Ghosh(Canada)
Tuition Concept and Learning Aids in Modern Application Software Using PHOCUS as an Example
H. Rosengarten(F.R. Germany)
Education in Photogrammetry at ITC, a New Concept, a New Programme
R. Groot and C. Paresi(The Netherlands)

July 3, 1988 Sunday
09:00—10:30

Room A

T10 Commission IV
SPOT-ON!—10m Mapping from Space?
Chairman : A. Baudoin(France)
Working Group Report
A. Baudoin(France)
Applications Topographiques de SPOT a l'IGN-France
P. Denis and A. Baudoin(France)
Universal Photogrammetric Approach to Geometric Processing of SPOT Images
V. Kratky(Canada)
The Contribution of TM and SPOT Data to the Content of 1:50 000 and 1:25 000 Scale Maps
G. Peacegood and I.J. Dowman(United Kingdom)
Usefulness of Automatically Generated Height Information for Topographic Mapping and Land Information Purposes-With Emphasis on Data Extracted from SPOT-
D.G. Rosenholm(Sweden)
Improvement of Mapping Accuracy by Applying Triplet Matching to SPOT Imagery
R. Shibasaki and S. Murai(Japan)

Room B-1

T11 Commission II
Analytical Instruments
Chairman : M.L. McKenzie(U.S.A.)
Working Group Review
M.L. McKenzie(U.S.A.)
The States of the Art and Trends of Analytical Instruments
G. Petrie(United Kingdom)
Progressive Sampling-A New Realization of a Method for Interactive Data Collection for Digital Elevation Models on Analytical Plotters
H. Mann(Austria)
Handling of Panoramic and Extreme High Oblique Photographs in Analytical Plotters
K. Jacobsen(F.R. Germany)
Stability Testing of Analytical Plotters
A. Laiho and E. Kilpelä(Finland)
On-Line Aspects of Stereophotogrammetric Processing of SPOT Images
V. Kratky(Canada)

Room B-2

T12 Commission V
Low-Altitude Aerial Photogrammetry
Chairman : W. Wester-Ebbinghaus(F.R. Germany)
Report on the Activities of Working Group V/2, 1980—1988 (Low Altitude Aerial Photogrammetry)
L. Mauelshagen(F.R. Germany)
Luftaufnahmen aus Geringer Flughöhe-Flugsysteme, Sensoren und Anwendungen
J. Peipe(F.R. Germany)
Cameraplatforms for Low Altitude Aerial Photogrammetry at the Deutsches Bergbau-Museum
K.L. Busemeyer, J. Heckes, M. Kugelgen and L. Mauelshagen(F.R. Germany)
New Heliborne Equipment and Photogrammetric Survey Technique
G. Bozzolato and M. Carabelli(Italy)
Low Altitude Aerial Photogrammetry Using a Kite Balloon
T. Oshima and K. Miyashita(Japan)
Applications of Low Altitude Photogrammetry to Digital Mapping and Heritage Recording
M.R. Shortis and C.L. Ogleby(Australia)

July 3, 1988 Sunday
11:00—12:30

Room A

T13 Commission IV
Effective Techniques for Developing Countries
Chairman : A.S. McDonald(United Kingdom)
Working Party Report
A.S. McDonald(United Kingdom)
Simple Photogrammetric Methods for Registration of Rural Land in African Countries
A. Bujakiewicz(Zimbabwe)
Cadastral Mapping Methodology for Developing Countries
G. Konecny, W. Kost(F.R. Germany), P.N. Ayudhya(Thailand) and W. Schuhr(F.R. Germany)
The Use of Remote Sensing Products from Space for Cartographic Applications in Developing Countries of Relatively Small Area
M.A. Murad-Al-Shaikh(Iraq)

Room B-1

T14 Commission II
Photogrammetric Digital Image Processing Systems
Chairman : Z. Jaksic(Canada)
Working Group Review
Z. Jaksic(Canada)
On System Concepts for Digital Automation
U.V. Helava(U.S.A.)
Digital Stereophotogrammetry- Experience with and Experimental System
G. König, W. Nickel and J. Storl (F.R. Germany)
The Design and Implementation of a Digital Photogrammetric Stereo-Workstation
P. Lohmann, G. Picht, J. Weidenhammer, K. Jacobsen(F.R. Germany) and L. Skog(Sweden)
A Digital Reseau-Scanning Comparator System
T. Luhmann(F.R. Germany)

Room B-2

T15 Commission V
Unconventional Technologies and Applications
Chairman : S.K. Ghosh(Canada)
X-Ray Photogrammetry, State of the Art
S.A. Veress(U.S.A.)
Automated Pavement Evaluation Using Photogrammetry and Remote Sensing
K. Jeyapalan(U.S.A.)
Accuracy of Stereo Matching Using Color CCD Camera
T. Hoshi, T. Matsushita and Y. Koishikawa(Japan)
Application of Thermal Infrared Video System in Spiral Flow Image Tracing for the Water Flow Velocity Distribution Measurement
K. Narigasawa, Y. Gomi, K. Komiya, K. Fujisawa, I. Nakamura and M. Kudo(Japan)
Results of a Sequential Adjustment Procedure for Ultrasonography Using an Oscilloscope Camera
M.S. Elghazali(Kuwait) and Z. Elwishahy(Egypt)
Prototype of a Metric Projector
E. Baj(Italy)

July 3, 1988 Sunday
13:30—15:00

Room A

T16 Commission IV
Map Revision in the Digital Age
Chairman : J. Manning(Australia)
Working Group Report
J. Manning(Australia)
Revision of Large Scale Maps at the Ordnance Survey
D.W. Proctor and P.R.T. Newby(United Kingdom)
Map Revision with Satellite Imagery: A Powerful Alternative
J.R.R. Gauthier(Canada)
Map Revision Supported by Digital Vector/Raster Techniques
Ch. Eidenbenz and A. Perret(Switzerland)
Error Propagation in Digital Maps
O. Jacobi(Denmark)
Maintenance of Urban Information Systems Using Photogrammetric Superimposition Technique
A. Östman(Sweden) and M. Tujunen(Finland)

Room B-1

T17 Commission II
Integrated Photogrammetric Systems
Chairman : B. Makarovic(The Netherlands)
Context and Integration of Photogrammetric Production Lines
B. Makarovic(The Netherlands)
The Effect of Digital Photogrammetry on Existing Photogrammetric Concepts, Procedures and Systems
T. Schenk(U.S.A.)
Factors Influencing the Design of Modern Photogrammetric systems
A.A. Elassal(U.S.A.)
The Role of Integrated Photogrammetric Systems in GIS Technology
M.M. Allam(Canada)
A Digital Image Mapping System
G. Konecny, P. Luhmann(F.R. Germany) and L. Skog(Sweden)
A Digital Three Line Stereo Scanner System
O. Hofmann(F.R. Germany)

Room B-2

T18 Commission V
Biostereometrics
Chairman : I. Newton(United Kingdom)
Biostereometrics in Japan
Y. Yamashita(Japan)
Mensuration of Body Shapes Using an Automated Photogrammetric Approach
G. Robertson(U.S.A.)
Analyse de Gestes par Videogrammetrie Automatisée
A. Coblenz and R. Molland(France)
Photogrammetric Measurements of the Optic Disc Cupping and Retinal Nerve Fiber Layer Thickness
T. Takamoto and B. Schwartz(U.S.A.)
Use of Tomodensitometric Imagery for Prostheses of Human Knee
M. Bougouss(Morocco) and S.K. Ghosh(Canada)

July 4, 1988 Monday
09:00—10:30

Room A

T19 Commission I
Space Sensors (I)
Co-Chairmen : R. Welch(U.S.A.)
Ph. Hartl
(F.R. Germany)
Recent Advances in the Quality of
Remotely Sensed Imagery
R. Welch(U.S.A.)
SPOT 1 : Eighteen Months of Opera-
tion and 450,000 Images of the Earth
Surface
G. Brachet(France)
The SPOT 1 Image Quality : Two Years
of Experience
G. Begni and PH. Henry(France)
The New Generation SPOT Satellites
SPOT 4 and 5
M. Arnaud and M. Leroy(France)
Use of the Variable Gain Setting on
SPOT
P.S. Chavez Jr.(U.S.A.)

Room B-1

T20 Commission VII
Hydrology (Oceanography and Coastal
Zone)
Chairman : K.A. Ulbricht(F.R.
Germany)
Natural Environment Research of
Coastal Sea Area from the Air
Y. Kumaki(Japan)
The Use of the Thematic Mapper for
Coastal Water Analysis
S. Tassan(Italy)

Room B-2

T21 Commission III
Image Matching
Chairman : W. Förstner(F.R. Ger-
many)
Results of Test on Image Matching of
ISPRS WG III/4
E. Guelch(F.R. Germany)
Stereo Matching Using Transputer
Arrays
J.-P. Muller, K.A. Collins, G.P. Otto
and J.B.G. Roberts
(United Kingdom)
Digital Stereo Image Matching Tech-
niques
M.J. Hannh(U.S.A.)
Least Squares Methods for Surface
Reconstruction from Images
B. Wrobel(F.R. Germany)

July 4, 1988 Monday
11:00—12:30

Room A

T22 Commission I
Camera Developments
Chairman : H. Ziemann(F.R.
Germany)
Electro-Optical Sensors--
Specifications and Standards
C.L. Norton and L.C. Peck(U.S.A.)
A Practical Method of Remotely Sen-
sed Digital Image's Resolving Power
I. Kamiya(Japan)
Measures for Geometric Resolution of
Digital Cameras
H.-P. Bähr(F.R. Germany)
The Precision of a Digital Camera
G. Vosselman and W. Förstner(F.R.
Germany)
Test Technique for Checking the For-
ward Motion Compensation Device in
the LMK Aerial Survey Camera System
U. Zeth and N. Diete(German Dem.
Rep.)
The Effect of Forward Motion Compens-
ation (FMC) on Resolving Power of
Aerial Photographs
J. Hakkarainen(Finland) and M.
Schroeder(F.R. Germany)

Room B-1

T23 Commission VII
Spectral Characterization of Vegetation
and Soil
Chairman : G. Guyot(France)
On Soil Moisture Mapping Using IR-
Thermography
S.R.J. Axelsson(Sweden)
The Spectral-Agronomic Multisite-
Multicrop Analysis (SAMMA) Project
C.L. Wiegand and J.L. Hatfield
(U.S.A.)
Study of the Spectral Response of
Soybeans
G.T. Batista and B.F.T.
Rudorff(Brazil)
Radiometric Predictions for Agronomic
Variables of Rice Canopies Using a
Visible to Mid-infrared Spectror-
adiometer
M. Shibayama(Japan), C.L.
Wiegand(U.S.A.), T. Akiyama and
Y. Yamagata(Japan)
The Application of the Weighted Near-
Infrared Vegetation Index for Estimat-
ing LAI at the Vegetative and Genera-
tive Statge of Cereals
J.G.P.W. Clevers(The Netherlands)

Room B-2

T24 Commission III
Image Analysis
Chairman : E. Mikhail(U.S.A.)
DEM-Based Image Processing
Methods for SAR Images
Y. Rauste(Finland)
Pixel Swapping-A New Technique for
Spatial Data Analysis
J. Iisaka, R. Saper and D.G.
Goodenough(Canada)
Automatic Recognition of Road Infor-
mation on Medium Scale Topographi-
cal Maps
A. Yaguchi, H. Murakami, K.
Kamada, Y. Ohsawa and M.
Sakauchi(Japan)
Photogrammetric Treatment of Linear
Features
D.C. Mulawa and E.M. Mikhail
(U.S.A.)
Structural Matching of Digital Images
and Terrain Models
K. Papanikolaou and E.
Derenyi(Canada)

July 4, 1988 Monday
13:30-15:00

Room A

T25 Commission I
Aerial Survey
Co-Chairman : R. Brossier(France)
M. Schroeder
(F.R. Germany)
Photogrammetric Applications of SER-
CEL GPS TR5SB Receiver at Institute
Geographique National-France
R. Brossier, C. Million and A.
Reynes(France)
A Comparative Study of Dynamic
Positioning by GPS
E. Cortes and F.J. Heimes(The Neth-
erlands)
Experimental GPS-Supported Aerial
Triangulation
E. Dorrer and C. Schwierz
(F.R. Germany)
High Accuracy X, Y, Z, Positioning in
Flight
F.L.J.H. Corten(The Netherlands)
Modelling Orientation Parameters of
Sensor Platforms
J. Lindenberger(F.R. Germany)
Aerial Photography from Very High
Altitude in Sweden
L. Ottoson(Sweden)

Room B-1

T26 Commission VII
Non Renewable Resources
Chairman : D. Mouat(U.S.A.)
Introducing ARGUS, an Operational
Remote Sensing System for Ground-
water Exploration
P.I. Fergestad and W.D.
Langeraar(The Netherlands)
Application of Landsat TM Data into
Regional Exploration of Lead-Zinc
Deposits
P. Wang(China Beijing)
Development of Borehole Scanner for
Underground Geological Survey
S. Murai, C. Tanimoto, Y.
Matsumoto and K. Nagata(Japan)
Analysis of Multitemporal Airborne
Remote Sensing Data for the Location
of Solution Features in the Chalk of
Southern England
T.J.M. Kennie, M.S. Rosenbaum
and C.N. Edmonds
(United Kingdom)

Room B-2

T27 Commission III
DTM-Data Acquisition
Chairman : O. Jacobi(Denmark)
Progress in Digital Terrain Model
K. Kubik(Australia)
On Line Generation and Verification of
Digital Terrain Models
W. Reinhardt(F.R. Germany)
Derivation of a Digital Terrain Model by
Dynamic Programming
O. Kölbl and I. da Silva(Switzerland)
Automatic Assignment of Height Val-
ues to Digitized Contour Data
A. Yaguchi, S. Okuyama, K.
Kamada and H. Murakami(Japan)

July 6, 1988 Wednesday
13:30-15:00

Room A

T28 Commission VI
ISPRS Bibliographic Data Base/Multi-
Lingual Dictionary
Chairman : T. Oshima(Japan)
Status 1987 of ISPRS-Dictionary
G. Lindig(F.R. Germany)
Constitution de la Partie Francaise du
Dictionnaire Multilingue de la Societe
Internationale de Photogrammetrie et
de Teledetection (SIPT)
S. Paul(France)
Prospective Study for an ISPRS
Database
D. Burette, CH.-H. Latache, D.
Pouyllau(France) and J.H. Ten
Haken(The Netherlands)
Toward an ISPRS Bibliographic Infor-
mation Retrieval System
J.E. Clark and L.W. Fritz(U.S.A.)
Information Retrieval for Literature and
Factual Data in Photogrammetry and
Remote Sensing
J. Hothmer(F.R. Germany)

Room B-1

T29 Commission IV
Impact of Digital Data on Mapping
Specifications
Chairman : J. Kure(The Netherlands)
Guidelines in Establishing Mapping
Specifications
J. Kure(The Netherlands)
Specification for Mapping at Scales
between 1:1,000 and 1:10,000 Sec-
ond Edition March 1988
J. Leatherdale(United Kingdom)
ASPRS' Tentative Map Accuracy Stan-
dards for Large-Scale Maps
D.C. Merchant(U.S.A.)
Standard Procedure and Data Format
for Digital Mapping
M. Akiyama, N. Takayama, S.
Okuyama, F. Hisamatsu, R. Kojiro
and T. Kiuchi(Japan)
The Danish Geographic Exchange For-
mat A Format for the Exchange of
Topographic, Cadastral and Utility
Information
V.W. Laursen(Denmark)

Room B-2

T30 Commission II Panel Discussion
Photogrammetric System for Data
Processing and Analysis
Chairman : L.W. Fritz(U.S.A.)

July 7, 1988 Thursday
09:00—10:30

Room A

T31 Commission II
Systems for Analysis of Remotely Sensed Data
Chairman : D.G. Goodenough
(Canada)
A Proposed Standard Test Procedure for Conversion between Raster and Vector Data
J.M. Piwowar and E.F. LeDrew(Canada)
Associative Memory for Pattern Recognition—An Implementation
J.B. Escada Jr.(Brazil)
Automatic Generation of Image Ground Control Features from a Digital Map Database
A. Stevens, A.C. Morris, T.J. Ibbs, M.J. Jackson and J.-P. Muller(United Kingdom)
Development of a Man-Machine Interactive System to Detect Land Use Changes by Using Remote Sensing Data
R. Matsuoka, H. Hasegawa and I. Ikeshima(Japan)
Landsat TM Image Recognition by Use of Power Spectrum Analysis
Q. Liu, J. Xu and Y. He(China Beijing)

Room B-1

T32 Commission V
Analytics of Non-Topographic Photogrammetry
Chairman : C.S. Fraser(U.S.A.)
Analytics in Non-Topographic Photogrammetry
W. Wester-Ebbinghaus (F.R. Germany)
Lens Distortion and Film Flattening: Their Effect on Small Format Photogrammetry
J. Fryer(Australia)
A Singularity Free Algorithm for Spatial Orientation of Bundles
L. Hinsken(F.R. Germany)
An Unconventional Application of Analytical Plotters to Architectural Photogrammetry: Projection, Plotting and Digitizing on Non Plane Surfaces
S. Dequal(Italy)
Phototriangulation in Multi-Media Photogrammetry
R. Kotowski(F.R. Germany)

Room B-2

T33 Commission IV
Large Scale Applications of Photogrammetry
Chairman : R.R. Chamard(U.S.A.)
Working Group Report
R.R. Chamard(U.S.A.)
FMC Camera, High Resolution Films and Very Large Scale Mapping
K. Tachibana and H. Hasegawa(Japan)
Bestimmung von Meerestiefen und Ihre Praktischen Probleme
J. Höhle(Denmark)
Modern Methods of Photogrammetry in the Field of Glaciology
H. Rentsch(F.R. Germany)
The Swedish Progress from an Analogous System to a Digital Photogrammetric System in Road Design
P. Erixon(Sweden)

July 7, 1988 Thursday
11:00—12:30

Room A

T34 Commission II
National Programs for Handling Large Volumes of Satellite Data
Chairman : J.A. Koepfen(U.S.A.)
Working Group Review
J. Koepfen(U.S.A.)
Technical Conditions for Large Volume Data Handling on Future Earth Observation Ground System
T. Tanaka, S. Miida, Y. Suzuki, K. Arai, H. Sato and N. Tanioka(Japan)
National Program for Handling Large Volumes of Satellite Data
B.L. Deekshatulu(India)
Some Methods for Standardization Enhancement and Handling of Satellite Data in China RSGS
Y. Gu and Z. Dai(China)
The Brazilian Experience in Handling 15 Years of Remote Sensing Satellite Data
M.N. Barbosa and S. de P. Pereira(Brazil)
ESA's Activities and Plans for Remote Sensing Data Systems
L. Marelli(Italy)

Room B-1

T35 Commission V
Close-Range Photogrammetry in Industry and Applied Science
Chairman : H. Rüter(South Africa)
State of the Art in Industrial Photogrammetry
C.S. Fraser(U.S.A.)
Commercial Underwater Photogrammetry—The First Decade
J. Leatherdale and J. Turner(United Kingdom)
Photogrammetric Close-range CAD System
R. Larsson(Sweden)
Motography and Photogrammetry for the Study of Movements
K. GÜthner and J. Peipe (F.R. Germany)
Deformation Measurement of the Bandai Bridge by Close-range Photogrammetry
T. Kawame, F. Koga, S. Matsumoto, S. Ishiguro, Y. Watanabe, A. Tsubouchi and S. Murai(Japan)

Room B-2

T36 Commission IV
Trends in Mapping from Space Imagery
Chairman : A. Colvocoresses(U.S.A.)
Comparison of High Resolution Satellite Imagery for Mapping
G. Konecny, K. Jacobsen, P. Lohmann and W. Müller(F.R. Germany)
The Brazilian Experience on Mapping from Satellite Data
M.N. Barbosa and P.R.M. Serra(Brazil)
Planetary Mapping with Photogrammetry
S.S.C. Wu(U.S.A.)
Image Mapping from Space
A.P. Colvocoresses(U.S.A.)

July 7, 1988 Thursday
13:30-15:00

Room A

T37 Commission II
Systems and Instrumentation for Synthetic Aperture Radar Processing
Chairman : A.D. Goldfinger(U.S.A.)
Working Group Review
A.D. Goldfinger(U.S.A.)
Radar System Design for the Magellan Radar Mission to Venus
W.T.K. Johnson(U.S.A.)
ERS-1 SAR Processing with CESAR
E. Herland(Norway)
Performance Evaluation of ERS-1 Synthetic Aperture Radar Fast Delivery Processor
J.P. Guignard(The Netherlands) and P. Hasan(Canada)
Real Time SAR Processing Techniques
R. Schotter(F.R. Germany)

Room B-1

T38 Commission I/II
Space Photography
Chairman : A.A. Drazhnyuk(U.S.S.R.)
Earth Space Sensing for the Interests of the Development of the Economy
Yu.P. Kienko(U.S.S.R.)
Mapping with the NASA Large Format Camera
F.J. Doyle(U.S.A.)
The Information Potential of Space Photographs
K.-H. Marek(German Dem.Rep.)
Reflight of the Metric Camera on the ATLAS-1 Mission
M. Schroeder and R. Stätter(F.R. Germany)
High Resolution Soviet Space Photographs for Topographic Mapping
R. Kaczynski and J. Konieczny(Poland)
Geometric Potential of Space Images
K. Jacobsen and W. Müller
(F.R. Germany)

Room B-2

T39 Commission VI
Inventory of Manpower, Education and Research Facilities
Chairman : S.K. Ghosh(Canada)
Photogrammetry & Remote Sensing: Manpower, Education & Research Facilities, International Documentation Center (General Summary Report of ISPRS Working Group (WG) VI-1)
A.J. Brandenberger(Canada)
Report of Working Group VI/1 Eastern Asian Countries : Inventory of Manpower and Education and Research Facilities
T. Oshima and K. Maruo(Japan)
Cartography and Remote Sensing Education in Africa
O.O. Ayeni(Nigeria)

July 7, 1988 Thursday
15:30-17:00

Room B-1

T58 Commission VII
Renewable Resources (Forest and Vegetation)
Chairman : J. Besenicar(Yugoslavia)
Looking Back and Ahead-Developments and Forecast of Applied Remote Sensing
G. Hildebrandt(F.R. Germany)
Evaluation of Grazing Areas for Reindeer on Svalbard, Arctic Norway, Using LANDSAT 5-TM Data
B. Johansen, A. Elvebakk and S. Spjelkavik (Norway)
Application of Infrared Color Photographs on the Study of Effects of Acid Rain on Forest Ecosystem
T. Ueda and K. Waki(Japan)



July 8, 1988 Friday
09:00—10:30

Room A

T40 Commission V
Real-Time Close-Range Photogrammetry I
Chairman : S.F. El-Hakim(Canada)
On the Accuracy of Videometry
R. Lenz and D. Fritsch(F.R. Germany)
Linejitter and Geometric Calibration of CCD-Cameras
H.A. Beyer(Switzerland)
Geometrical Calibration and Online Stability Control of Photogrammetric Solid State Camera Station
J. Heikkilä and H. Haggren(Finland)
Automated Three-Dimensional Measurement Using Multiple One-Dimensional Solid-State Image Sensors and Laser Spot Scanners
Y. Yamashita, N. Saeki, K. Hayashi and N. Suzuki(Japan)
Real-Time-Photogrammetry by Means of High-Speed-Video
W. Wester-Ebbinghaus and H. Zamzow (F.R. Germany)
A Survey on Stereo Matching Techniques
M.J.P.N. Lemmens
(The Netherlands)

Room B-1

T41 Commission III/IV
Techniques for the Management of Topographic Information
Chairman : R. Welch(U.S.A.)
Working Group Report
R. Welch(U.S.A.)
Mapping with SPOT Imagery and Integrated Data Sets
R. Simard, G. Rochon and A. Leclerc(Canada)
An Expert System for Satellite Image Interpretation and G.I.S. Based Problem Solving
J. Desachy, P. Debord and S. Castan(France)
The Integration of Image Processing and Topologically Structured GIS; One Company's Solution
J. Dykstra, O. Long and K. Smith (U.S.A.)
Visualisation of Topographic Data Using Video Animation
J.-P. Muller, T. Day, J. Kolbusz, M. Dalton, S. Richards and J.C. Pearson(United Kingdom)

Room B-2

T42 Commission I
Space Sensors (II)
Chairman : G. Brachet(France)
The Three-Line Stereo Camera MEOSS and Its Application in Space
F. Lanzl(F.R. Germany)
MOMS-02—A Sensor for Combined Stereoscopic and Multispectral Earth Observation
F. Ackermann, J. Bodechtel, D. Meissner, P. Seige and H. Winkenbach(F.R. Germany)
Studies on Object Reconstruction from Space Using Three Line Scanner Imagery
H. Ebner, F. Müller(F.R. Germany) and S. Zhang(China Beijing)
Outline of MOS-1 Verification Program (MVP)
K. Maeda, H. Wakabayashi, K. Tasaki, M. Shimada and H. Sato(Japan)
A Conceptional Study of Optical Earth Observation from Geosynchronous Orbit
H. Koshiishi and K. Homma(Japan)

July 8, 1988 Friday
11:00—12:30

Room A

T43 Commission V
Real-Time Close-Range Photogrammetry II
Chairman : K.W. Wong(U.S.A.)
3-D Metric Vision for Engineering Construction
K.W. Wong, M. Lew and A.G. Wiley(U.S.A.)
Realtime Positioning of Moving Objects by Dynamic Target Tracking
G. Bayer, P. Krzystek and W. Möhlenbrink(F.R. Germany)
A. Concept for Automated 3-D Measurement of Objects in Motion
H. Schaefer and S. Murai(Japan)
Experience with InduSURF in 3D Measurement of Industrial Surfaces
M. Claus(F.R. Germany)
The Application of Real-Time and Near Real-Time Photogrammetry in Industry: A Test of Accuracy
P.C. Gustafson(U.S.A.)
Derivation of Approximate Values by Recognition of Circular Targets
I. Hadem(Norway)

Room B-1

T44 Commission III/IV
Systematic Approaches to GIS and Digital Data
Chairman : H. Shimoda(Japan)
Integrated Classifiers for GIS and Remote Sensing
D.G. Goodenough, J. Iisaka, A. Menard, M. Robson and R. Saper(Canada)
Projection of Topographic Data into Remote Sensing Images
J. Besenicar and B. Kengen
(The Netherlands)
Errors due to Integration of Image Data to Geographical Information Systems
G. Schweinfurth(F.R. Germany)
The Application of Integrated Raster-Vector Techniques to Cartographic and Photogrammetric Data in Map Revision Process Oriented to GIS Implementation
L. Surace(Italy)
Integration of a GIS and a DTM
J. Sandgaard(Denmark)
Total Utility Management System in Kuwait (KUDAMS)
K. Ikeda(Japan)
Geographical Information System with Remote Sensing Data and Its Application in Land Use Planning
E. Shimizu and H. Nakamura(Japan)

Room B-2

T45 Commission I/II/VII
Radar/Microwave Remote Sensing Systems
Chairman : J.P. Guignard(The Netherlands)
Experiences in Implementing an Expert System Supported Man-Machine-Interface for the Configuration of the Intelligent SAR Processor
W. Noack, A. Popella and R. Konjack(F.R. Germany)
Mapping Accuracy Using Side-Looking Radar Images on the Analytical Stereoplotter
S.S.C. Wu, F.J. Schafer and A. Howington-Kraus(U.S.A.)
Design Assessment of a High Precision SAR Processor Employing the Transputer Based Meiko Computing Surface
J.J.W. Wilson(United Kingdom)
Data Processing and Calibration of SAR Data in Japan
K. Maeda and H. Sato(Japan)
Towards a Polarimetric C-Band Aircraft SAR in the Netherlands
P. Hoogeboom(The Netherlands)

July 8, 1988 Friday
13:30—15:00

Room A

T46 Commission VII
Renewable Resources (Landuse and Agriculture)

Chairman : J. Besenicar(Yugoslavia)
Crop Monitoring for Agricultural Propositions

J.G.P.W. Clevers(The Netherlands)
Optical and Digital Interpretation of "SPOT" Imagery for Land Resources Planning and Management in North-eastern Brazil

H.S. Teotia, W.C. Kennard and D.L. Civco(U.S.A.)

Passive Microwave Remote Sensing of Soil, Vegetation and Waters

N.A. Armand and A.M. Shutko(U.S.S.R.)

Evaluations of Unsupervised Methods for Landcover/use Classifications of Landsat TM Data

K. Fukue, H. Shimoda, Y. Matsumae, R. Yamaguchi and T. Sakata(Japan)

Room B-1

T47 Commission III
On-Line Photogrammetric Triangulation

Chairman : A. Gruen(Switzerland)
Current Status of On-line Point Positioning in Commercial Systems

E. Dorrer(F.R. Germany)
Further Use of Givens Transformations in On-Line Phototranslation

K.R. Holm(Norway)
Optimal Computer Support of Photo Coordinate Measurements and On-Line Data Check

K. Jacobsen(F.R. Germany)
Photogrammetric Analysis of Stereo SPOT Imagery

F.C. Padered Jr. and E.M. Mikhail(U.S.A.)

Block Adjustment on Personal Computers

H. Klein(F.R. Germany)

Room B-2

T48 Commission I/II
Use of Space Photography for Mapping

Chairman : K. Szangolies(German Dem.Rep.)

Intercommission I/II Report
K. Szangolies(German Dem.Rep.)
The Restitution of Metric Photography Taken from Space

I. Dowman(United Kingdom)
Spaceborne Stereo-Photography for Mapping of High Mountain Terrain

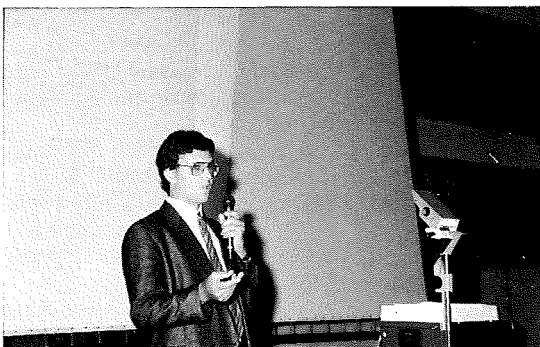
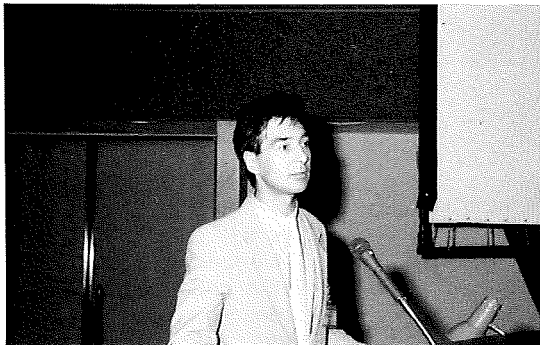
M.F. Buchroithner(Austria)
Map Production and Revision with Satellite Photographs Taken by the MKF-6 Camera and by the Cameras KATE-140, KATE-200 and KFA-1000

J. Kraemer(German Dem.Rep.)

Cosmic Mapping of Antarctica
A.A. Drazhnyuk(U.S.S.R.)

Generation of DTM's with Space Photographs

A. Elmhorst and W. Müller(F.R. Germany)



July 9, 1988 Saturday
09:00—10:30

Room A

T49 Commission VII
Hydrology (Ice, Snow and Ground-water)
Chairman : K.A. Ulbricht(F.R. Germany)
The Application of an Atmospheric Correction and Chlorophyll Algorithm on a TM Image of Central Lake Tanganyika : Techniques and Observations
P. I. Vanouplines(Belgium)
On the Regional Characteristics of Actual Evapotranspiration Derived from LANDSAT MSS and Elevation Data
S. Uchida and T. Hoshi(Japan)

Room B-1

T50 Commission I
Specification and Calibration
Chairman : R.W. Lorenz(The Netherlands)
A Survey of Aerial Image Quality Assessment Methods
A. Boberg(Sweden)
System Calibration versus Photogrammetric Refraction
J.B. de Andrade and E. Mitishita(Brazil)
Full Geometrical System Calibration at the Test Range Brecherspitze
K.H. Ellenbeck and G. Kupfer(F.R. Germany)
Specification for Vertical Aerial Photogrammetry Results of a Questionnaire
F.J. Worton(United Kingdom)
Aerial Photography, Specifications, Camera Calibration and Recommended Procedures—Present Status and Outlook—A Critical View
R.W. Lorenz(The Netherlands) and H. Ziemann(F.R. Germany)

Room B-2

T51 Commission II/III/V
Fast Processing of Photogrammetric Data
Chairman : Z. Jaksic(Canada)
Digital Photogrammetric Processing Systems—Current Status and Prospects
A.W. Gruen(Switzerland)
Limiting Factors of Real-Time Image Metrology
S.F. El-Hakim(Canada)
Future Oriented Scenarios for Cross-Range Photogrammetric Instrumentation
H. Haggren(Finland)
Graphics Workstations for Integrated Data Collection, Simulation and Analysis
J.-P. Muller and V. Paramananda(United Kingdom)
Experiments on Target Location and Image Matching
J.C. Trinder(Australia)

July 9, 1988 Saturday
11:00—12:30

Room A

T52 Commission VII
Microwave Data
Chairman : Thuy le Toan(France)
An Overview of the Recent Progress on Microwave Remote Sensing
Thuy le Toan(France)
Oceanic Remote Sensing
F.V. Bunkin and K.I. Volyak (U.S.S.R.)
Caracterization d'une Region Agricole a Partir d'un Radar Bande C et d'un Radiometre dans l'Infrarouge Thermique Aeroportes
J.V. Soares, R. Bernard and D. Vidal-Madjar(Brazil)

Room B-1

T53 Commission III
Digital Terrain Modelling
Chairman : K. Kubik(Australia)
The Alberta Digital Elevation Model
M.A.G. Toomey(Canada)
Automated Generation of DTM from Existing Topographic Map
S. Viseshsin, S. Murai and S. Yanagida(Japan)
DTM Generation Using SPOT Digital Data
L. Chen, L. Lee and S. Lee(China Taipei)
Manual or Automatic Measurements of Digital Elevation Models in SPOT Images
D.G. Rosenholm(Sweden)
A Multigrid Approach for the Stereo Problem with Depth-Discontinuities
J. Dengler and M. Schmidt(F.R. Germany)

Room B-2

T54 Commission II
Emerging Technology for Handling Large Volumes of Satellite Data
Chairman : F. Billingsley(U.S.A.)
Optical Storage Technologies for Remote Sensing
J. Iisaka(Canada)
Local Area Network and Data Network for the Advanced Earth Observing Satellite, ADEOS System
K. Arai(Japan)
On-Line Data Services of NOAA AVHRR Images through Value Added Networks
S. Saitoh, Y. Hashimoto, M. Koga and M. Shimizu(Japan)
Concurrent Architectures and High Rate Data Processing
M. Lee(U.S.A.)
Expert Systems for Image Processing: Past, Present and Future Needs
B.P. Clark(U.S.A.)

**July 9, 1988 Saturday
13:30—15:00**

Room A

- T55 Commission V
Architectural and Heritage Recording through Photogrammetry
Chairman : L. Mauelshagen(F.R. Germany)
Photogrammetry for Preservation of Cultural Heritage
E. Lundemo and O. Ofsti(Norway)
The Photogrammetric Survey of the Coliseum in Rome
G. Birardi, R. Carlucci, E. Ferrara, U. Giannoni and G. Maruffi(Italy)
Analytical Approaches to the Problem of Architectural Restitution
A. Georgopoulos, C. Ioannidis, C. Potsiou and J. Badekas(Greece)
Digital Orthophoto Mapping Using a Simple Camera
P.R. Wolf(U.S.A.) and H. Huang(China Taipei)
Recording the Damages of Natural Stones
J. Heckes, L. Mauelshagen and M. Skalli(F.R. Germany)
Pour une Nouvelle Technologie Photogrammetrique: Les 4 Dimensions de l' Architecture
J.-P. Saint-Aubin(France)

Room B-1

- T56 Commission I
Microwave Systems
Co-Chairmen : J. Curlander(U.S.A.) Ph. Hartl (F.R. Germany)
The Shuttle Imaging Radar (SIR-C): New Techniques in SAR Data Acquisition
J. Curlander(U.S.A.)
TARRI-Terrain and Rain Radar Imager
Ch. Elachi(U.S.A.) and Ph. Hartl (F.R. Germany)
KRAS-A Danish High Resolution Airborne SAR
S.N. Madsen, E.L. Christensen and N. Skou(Denmark)
Scanning Beam Radar Altimetry for Land Surface Monitoring
S.R.J. Axelsson(Sweden)
Scientific Objectives of the Magellan Mission to Venus
S.D. Wall(U.S.A.)
A Bistatic Parasitical Radar (BIPAR)
Ph. Hartl and H.M. Braun(F.R. Germany)
Reliability of Radar Image Data
G. Konecny and W. Schuhr(F.R. Germany)

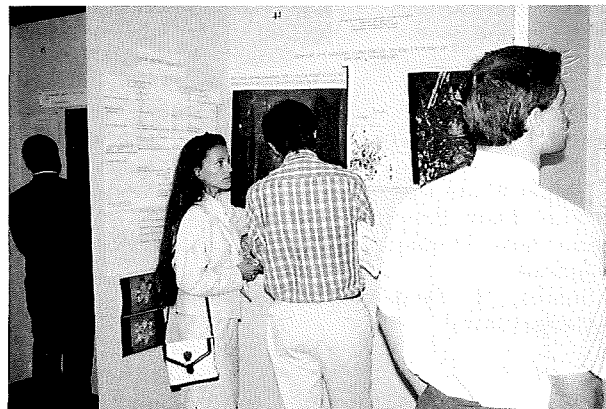
Room B-2

- T57 Commission II
Image Processing Instruments for Teaching
Chairman : I.J. Dowman(United Kingdom)
An Image Processing System Which You Can Make
T. Liao, W. Hao, S. Chang and M. Wu(China Taipei)
Digital Mapping System for Educational Purposes
J. Besenicar, M. Radwan and A. Tuladhar(The Netherlands)
Use of Personal Computer for Image Processing in Education
T. Oshima, S. Tanaka and T. Sugimura(japan)
A Distributed Information Processing System
D. Zhu, W. Ni, Z. Ye and Y. Wang(China)

**July 9, 1988 Saturday
15:30—17:00**

Room B-1

- T59 Commission VII
Remote Sensing Data for Geo Information Systems(GIS)
Chairman : W.D. Langeraar(The Netherlands)
ILWIS Geo Information System Overview
B.G.H. Gorte(The Netherlands)
Future Land Use Model Using Integrated Land and Watershed Management Information System (ILWIS)
C.R. Valenzuela(Bolivia) and A.M.J. Meijerink(The Netherlands)
The Use of Topographic Map Data to Achieve over 95% Significance in Information Extracted from Satellite Imagery
F.B. van der Laan(The Netherlands)
The Role of an Automated GIS in the Development and Management of Renewable Natural Resources of Northeastern Brazil
W.C. Kennard, H.S. Teotia and D.L. Civco(U.S.A.)
FEX: Automatic Planimetric Feature Extraction
J.S. Zelek, S. Paine, P. MacDonald and D. Hawkins(Canada)



July 2, 1988 Saturday (Poster Session)
Room : 552—557

P01 Time : 14:00—16:30

<Commission III>

The New Concept for Inter-Class Separability and Fast Maximum Likelihood Calculation

M. Akiyama(Japan)

Image Analysis Using Fuzzy Entropy and Possibility Function

V.S. Bansal(India)

Comparative Analysis of Information Measures for Digital Image Processing

J.A.R. Blais and M. Boulianne(Canada)

On the Restitution of Airborne Line Imager Data Using an Analytical Plotter

M.A. Chapman and J.R. Gibson(Canada)

Method for Combined Image Interpolation-Restoration through a FIR Filter Design Technique

L.M.G. Fonseca and N.D.A. Mascarenhas(Brazil)

Generation of DTM Using SPOT Image near Mt. Fuji by Digital Image Correlation

Y. Fukushima(Japan)

Automatic Classification Algorithm of Principal Ground Cover Pattern in Satellite Image

T. Hoshi, S. Zhang and K. Nishimura(Japan)

Experiments with Facets stereo Vision(FAST-Vision) for Object Surface Computations

Th. Kortén, B. Wrobel, M. Franek and M.

Weisensee(F.R. Germany)

On the Geometric Accuracy of Some Differential-Type of Edge Detectors and Non-Linear Smoothing Filters

M.J.P.M. Lemmens and C.S.L.A. Han(The Netherlands)

High Precision Relative Orientation Using the Feature Based Matching Techniques

M. Li(Sweden)

Contourlines from DEM-Grid Using Image Processing Techniques

H. Malmström(Sweden)

Satellite Image Processing Using Low Level Symbolic Structures

A.M.V. Monteiro and F.R.D. Velasco(Brazil)

Rectification of Spot Data for Stereo Image Matching

G.P. Otto(United Kingdom)

Image Segmentation in Unsupervised and Supervised Land Cover Classification from Satellite Images

E. Parmes and R. Kuittinen(Finland)

Transformation Matrix for Study and Evaluation of Projection Aspects of the Earth Observation Area

H. Sato, K. Maeda, K. Arai, H. Wakabayashi and S. Koizumi(Japan)

Comparison of Classification Methods for MSS Data by an Application of Detailed Digital Land-Use Data(10 m-sq. Resolution) Prepared by Japanese Geographical Survey Institute

S. Tanaka and K. Nakane(Japan)

Image Analysis Using the Random-Dot Screen Model: The Method and Results

K.I. Voliak, K.A. Boyarchuk and A.V.

Krasnoslobodtsev(U.S.S.R.)

Q01 Time : 16:30— * 13:00

<Commission III>

Enhancement of Satellite Image Data by Data Cumulation

J. Albertz and K. Zelianos(F.R. Germany)

Hierarchical Multiphoto Matching and D.T.M. Generation

E.P. Baltsavias(Switzerland)

Satellite Image Registration through Structural Matching

L.S.A. Bins and F.R.D. Velasco(Brazil)

Integration of Digital Image Matching and Object Surface Reconstruction

H. Ebner and C. Heipke(F.R. Germany)

Model Based Detection and Location of Houses as Topographic Control Points in Digital Images

W. Förstner(F.R. Germany)

Computer-Intelligent System for Remote Sensing Analysis

D.G. Goodenough and M. Robson(Canada)

Fast Geometric Correction Algorithm of NOAA AVHRR Image

T. Hosomura, H. Shimoda, Y. Matsumae and T.

Sakata(Japan)

DEM Generation from SPOT Multiple View Images, Using Correspondence Analysis

H.R. Kostwinder, N.J. Mulder and M.M. Radwan(The Netherlands)

A Simple Algorithm for Edge Detection

Y. Lü(China)

Interest Operator and Fast Implementation

Y. Lü(China)

Measures for the Structural Information Content of Binary Images

M. Molenaar(The Netherlands)

A Structural Approach to the Extraction of Texture Features from SPOT and CIR Photographs

N.J. Mulder, H. Pan and C. Austrom(The Netherlands)

Reduction of Atmospheric Scattering for Remote Sensing Data on the Sea Surface

S. Omatu, H. Koda and T. Yosida(Japan)

A New Approach of Epipolar-Line Image Matching for Improving the Performance of SODAMS System

Z. Zhang(China Beijing)

<Commission IV>

The Technical Map on the 1:500 Scale of Historic Centre in Alcamo(Italy)

V. Franco, A. Messina, A. Pinzino and B. Villa(Italy)

<Commission V>

Photogrammetry and Reconstruction of a Roman Cargo Vessel

M. Barbarella and G. Lombardini(Italy)

Compte Rendu d'Activite du Comite International de Photogrammetrie Architecturale(CIPA) Pendant la Periode 1984—1988

M. Carbonnell(France)

Results of a Sequential Adjustment Procedure for Ultrasonography Using an Oscilloscope Camera

M.S. Elghazali and Z. Wishahy(Egypt)

July 2, 1988 Saturday
Room : 552—557

P01 Time : 14:00—16:30

<Commission V>

Experiments of Architectural Survey with Mixed Methods
B. Astori and C. Sena(Italy)

Data Acquisition and Standard Metafile in Survey of
Monuments by Numerical Architectural Photogrammetry
R. Carlucci and A. Paoluzzi(Italy)

Data Reduction and Solid Modeling from a Photogram-
metric Acquisition of the Rome "Colosseo"
D. Del Bufalo, A. Nistri, A. Paoluzzi and M.
Rosina(Italy)

Aecheological Realtime Photogrammetry and Data Base
Y. Miyatsuka(Japan)

Photogrammetric and Photointerpretation Methods on
the Study of Monuments and Historical Centers in the
Greek Area Cases of Theaters

E. Patmios and M. Lasaridou(Greece)

<Commission VI>

Training and Education for Photogrammetry and Remote
Sensing in Korea

C. Ahn, B. Yeu and D. Shon(Korea)

Photogrammetry and Remote Sensing in the Cartographic
Engineering—UNESP/Brazil

J.F.C. da Silva and A.M.G. Tommaselli(Brazil)

<Commission VII>

Multisensor Image Fusion Techniques in Remote Sensing
M. Ehlers(U.S.A.)

Estimate of the Amount of Gravel Content in the Soil by
Airborne MSS Data

Y. Gomi, H. Yamamoto, S. Sato and S.
Ishiguro(Japan)

Discussions on a Phenomenon That Forest Edges Do Not
Accompany Radar Shadow in L-Band Airborne SAR
Images H. Hirosawa(Japan)

Information Content of Combined Radar and
Multispectral Scanner Data Obtained from Satellite Alti-
tude

R.M. Hoffer and F. Lozano-Garcia(U.S.A.)

The Determination of Sea Surface Temperature from
AVHRR Infrared Data in Cloudy Area

G. Liu and S. Tang(China Taipei)

Statistical Analysis of SPOT HRV/PA Data

M. Mori and K. Gotoh(Japan)

On Volcano Eruption Plumes Observed by Meteorological
Satellites K. Naito and Y. Sawada(Japan)

A Study Extracting Information on Ground Objects from
Characteristics of Space Thermal Distribution

A. Rikimaru, M. Kamijo and T. Oshima(Japan)

Interpretation of ERS-1 Windscatterometer Data: Wind
Field Extraction

K.J. Schwenzfeger(F.R. Germany)

Separability of Vegetation and Non-vegetation Using
MOMS-1 Visible and Infra-red Data

S. Tanaka, T. Sugimura(Japan) and S.H. Al-Sultan
(Saudi Arabia)

Observation of Submarine Volcanic Activities at the Kaito-
ku Seamount and the Hikutoku-Oka-no-Ba Seamount by
the Airborne Thermal Infrared Radiometer

M. Tsuchide and H. Sato(Japan)

Lidar Measurements of Sea Surface Waves

K.I. Voliak and M.V. Solntsev(U.S.S.R.)

Sea Spectra as Determined from Low-Altitude SLAR
Images K.I. Voliak(U.S.S.R.)

New Classification Algorithm Using Spatial Information
for High Resolution Image Data

Z. Zhang, H. Shimoda, K. Fukue, Y. Matsumae and T.
Sakata(Japan)

Q01 Time : 16:30— * 13:00

Photogrammetry as an Aid for the Analysis of the Per-
spective in Monumental Buildings

F. Guzzetti and C. Monti(Italy)

Solid Modeling and Computer Graphics Rendering of the
Coliseum in Rome

A. Paoluzzi, D. Del Bufalo, A. Nistri and M.
Rosina(Italy)

Recording of Monuments with Hand Operated Camera
Systems

M. Stephani and K. Eder(F.R. Germany)

Comprehensive Study Application of Photogrammetry in
Survey of Historical Monuments

P. Zhao and D. Song(China Beijing)

<Commission VI>

National Report of Polish Society of Photogrammetry and
Remote Sensing (Period: Jan. 1980—Dec. 1987)

Council of PSPRS(Poland)

Training Activities at the Regional Remote Sensing Cen-
tre, Ouagadougou (C.R.T.O.)

L. Okio and J.P. Okang(Burkina Faso)

Formation des Professionnels aux Applications de la
Teledetection

P.Y. Revillion(France)

<Commission VII>

Observation of the Bo-hai, China by NOAA/AVHRR and
MOSI/MESSR

K. Abe and S. Ogata(Japan)

Determination of Coastline Variations Using Aerial Photos
C. Ahn, B. Yeu and I. Kang(Korea)

Passive Microwave Remote Sensing of Soil, Vegetation
and Waters

N.A. Armand and A.M. Shutko(U.S.S.R.)

Etude Dynamics de Feux de Forêts par Scanneur Aeropor-
te Multibande dans le Visible et le Thermique

C. Goillot and P. Lagrave(France)

Change Detection Techniques to Assess Deforestation
Using Seasat and SIR-B Satellite Radar Data

R.M. Hoffer and K. Lee(U.S.A.)

Applications of False-Coloring of Black and White Imag-
ery by Optical Density Encoding Techniques

R. Hu and S. Yang(China)

Use of NASA's Airborne Thermal Infrared Multispectral
Scanner(TIMSS) for Geologic Problems

A.B. Kahle(U.S.A.)

Examples of Analysis of Aerial Photographs and Geo-
graphic Information System for Surveying Disasters

Y. Oyama and M. Setojima(Japan)

Forest Damage Inventory by Remote Sensing Methods.
Experiences from Sweden

L. Wastenson, G. Alm, J. Kleman and B.
Wastenson(Sweden)

P02 Time : 14:00-16:30

<Commission IV>

Les Possibilites d'Obtention de Produits Cartographiques avec l'Utilisation de Images du Satellite SPOT

L.A. Andrade(Brazil)

Sub-Pixel Accuracy in the Geometrical Correction of AVHRR Data

A.P. Cracknell and K. Paithoonwattanakij
(United Kingdom)

Incorporation of Texture Information as an Aid to the Feature Extraction and Classification with SPOT Data

M. Miehaelis(F.R. Germany)

Experiences Producing Small Scale Line Mapping from SPOT Imagery

K.J. Murray and J.E. Farrow(United Kingdom)

A study of Reducing Abnormal Elevations in Automatic Computation of Elevations from Satellite Data

M. Nagao, Y. Mukai, T. Sugimura, K. Ayabe, K. Arai and T. Nakazawa(Japan)

Cartographic Applications of SPOT Imagery

R. Priebbenow and E. Clerici(Australia)

Reduction of Ground Control Requirements by Pass Processing

B. Sharpe and K. Wiebe(Canada)

Planimetric Accuracy in Satellite Mapping

B. Shape and K. Wiebe(Canada)

The Application of Photogrammetric Methods in the Development of the Capital City of Prague

B. Skladalova and L. Skladal(Czechoslovakia)

Evaluation of SPOT Data for Topographic Mapping without GCP

R. Tateishi, Y. Kuronuma and F. Anzai(Japan)

SPOT Software for Wild Aviolyt BC2 Analytical Plotter

J.C. Trinder and B.E. Donnelly(Australia)

Terrain Height Extraction by the Use of Spot Data

M. Tsukada and H. Watanabe(Japan)

<Commission III/IV>

A Study on SPOT and DEM Data as Input to Geographic Information System Applying to an Inaccessible Region

E. Kim and M. Chung(Korea)

<Commission V>

Numerical Photogrammetry for Global Surveying of the Leaning Tower of Pisa

E. Baj and G. Bozzolato(Italy)

Unconventional Technologies in Close-Range Photogrammetry (Activity Report of ISPRS Working Group V-3)

S.K. Ghosh(Canada)

The Application of Underwater Stereophotogrammetry to Ecological Studies of Macrophytes

R. Kaczynski and J. Szmaja(Poland)

Three Dimensional Measurement of Metal Surface Shape by Using a Stereo Pair of SEM Photographs

J. Koseki, R. Matsuoka, K. Hirai and T. Yamamoto
(Japan)

The Application of the Panoramic Photograph by Fish Eye Lens in Close Range Photogrammetry

G. Li and W. Li(China)

Application of the Bayesian Inference in the Deformation Analysis by Close Range Photogrammetry

B. Yeu, H. Yoo and I. Yang(Korea)

<Commission VII>

Quelques Reflexions sur la Mise a Jour d'une Base de Donnes Urbaines a Partir des Images du Satellite SPOT

M. Armand(France)

Q02 Time : 16:30- * 13:00

<Commission IV>

Desert Areas at the Scale of 1:200 000 with the Use of TM Data

W. Bychawski, R. Gronet and R. Kaczynski(Poland)
Satellite Image Rectification Using Control Transferred from Digitized Aerial Triangulation Diapositives
M.A. Chapman, A.P. Tam, M. Boulianne and J.A.R. Blais(Canada)

Medium Scale Mapping Possibility Using LFC Data and SPOT Image near Mt. Fuji

Y. Fukushima and H. Murakami(Japan)

Digital Orthophotography at IGN-France

P. Houssay and R. Brossier(France)

Thailand Land Titling-A Photomapping Perspective

P. Kasiwat, N. Hongstong and K. Edwards(Thailand)

Mosaicing Digital Orthophotos

A. Klinting(Denmark)

Cartographic Systems for the Presentation of Geocoded Satellite Images

D. Kosmann, A. Roth and G. Schreier(F.R. Germany)

Digital Mapping in Norway-Experiences from an Accuracy Test

I. Maalen-Johansen(Norway)

Satellite Image Maps-An Alternative to the Systematic Mapping in Brazil

A.J.F. Machado e Silva, E.M.K. Mello nd S.P.B.G.R. Lima(Brazil)

A Contribution to Digital Orthophoto Generation

W. Mayr and C. Heipke(F.R. Germany)

Cartographic Accuracy and Information content of Space Imagery for Digital Map Compilation and Map Revision

A.A.C. Meneguette(Brazil)

Example of Practical Use of Color Orthophotomap

H. Nomura(Japan)

Satellite- and Thematic Orthophotomaps by Means of Image Optimization and Digital Cartography

G. Schweinfurth(F.R. Germany)

The Possibilities of Application of Satellite Data for Monitoring Ice Condition in the Antarctic Region

N.N. Shvyrkov(U.S.S.R.)

Maps Compilation of Open-Pit Mines Based on Orthophoto Technique

Z. Sitek(Poland)

Improving the Quality of Satellite Image Maps by Various Processing Techniques

R. Tauch and M. Kaehler(F.R. Germany)

<Commission V>

Spatial Directions from Panoramic Set of Photographs

E. Dorrer(F.R. Germany)

Calibration of an Amateur Camera for Various Object Distances

S.K. Ghosh, M. Rahimi and Z. Shi(Canada)

Rekonstruktion aus Historischen Night = Messbildern

K.U. Hansch(F.R. Germany)

The Well Sweep Type Photograph System

K. Kimata(Japan)

Development of a Simple CT Scanner for a Cultural Property

M. Kureya(Japan)

External Procedure of Oscilloscope's Images Refinement

Z.A. Wishahy(Egypt)

Phenomenon of Ultrasonic Distortions

Z.A. Wishahy(Egypt)

Gross Error Detection by Robust Estimation in DLT

B. Yeu and H. Park(Korea)

July 3, 1988 Sunday
552—557

P02 Time : 14:00—16:30

Satellite Measurements of the Surface Currents and the River Shannon Outflow Plume Movements off the West Coast of Ireland

A.P. Cracknell and W.G. Huang(United Kingdom)

Mathematical Modelling to Estimate the Contribution to the Radiance due to Scattering from Turbid Water : Case Study-Landsat MSS Data over the Tay Estuary

A.P. Cracknell and M. Ibrahim(United Kingdom)

Environmental Impact of the Urban Growth on the Western Sao Paulo Metropolitan Area

C. Foresti(Brazil)

Investigation of a Red Tide Pattern Observed in Osaka Bay by Landsat

S. Fujita(Japan)

Influence of Mixels on Land Cover Classification in Residential Areas Using Airborne MSS Data

A. Hoyano and Y. Komatsu(Japan)

Basin Streamflow Estimation Using the Landsat Data and Its Application to Optimum Control of Dam Water Level

Y. Kawata and S. Ueno(Japan)

Snowmelt Runoff Model Using Snow Covered Area

T. Koike and Y. Takahashi(Japan)

Determination of Snow Water Equivalents by Using NOAA-Satellite Images, Gamma Ray Spectrometry and Field Measurements

R. Kuittinen(Finland)

Estimation of Economic Data Based on Aerial-Photographic Information in Developing Countries

K. Miyamoto(Japan)

Extraction of Hydrological and Meteorological Information Using NOAA AVHRR Data with Geographical Information

K. Okuyama, T. Konno, S. Saitoh, K. Akatsu and R. Morimoto(Japan)

Shallow Water Mapping of Coral Reef Habitats: A Case Study from the Great Barrier Reef

R.E. Reichelt and S.J. Bainbridge(Australia)

The Estimation of Snow Depth Distribution by Satellite Data

Y. Takahashi, K. Suwabe and K. Hirono(Japan)

The Precision of the Sea Surface Temperature via NOAA-AVHRR Sensor

R. Yokoyama, S. Tanba, T. Souma and I. Yoshida (Japan)

Q02 Time : 16:30— * 13:00

<Commission VII>

Sunglint in AVHRR Data and the Determination of Near Surface Windspeeds

A.P. Cracknell, S. Khattak and R.A. Vaughan(United Kingdom)

On the Slopes Like Avalanche Chute and Their Distribution in Heavily Snowy Regions in Japan

T. Hoya, M. Sugiyama and T. Sekiguchi(Japan)

Detection and Mapping of the Disaster-Stricken Areas from LANDSAT Data

S. Kishi and H. Ohkura(Japan)

A Study on Information Analysis Aids for Sea Surface Temperature Image Data

H. Koshiishi, M. Naka, H. Yamamoto, K. Matsumoto, K. Homma, S. Matsumura, H. Takahashi, H. Tameishi, Y. Okada and . Okamoto(Japan)

Homogeneous Photographic Texture: An Instrument to Identify Different Urban Population Segments

M.L.N.O. Kurkdjian(Brazil)

The Use of SPOT and CIR Aerial Photography for Urban Planning

P. Lohmann and G. Altrogge(F.R. Germany)

A Study on Application of Remote Sensing Data for Urban Thermal Environment

M. Moriyama and T. Kawakami(Japan)

Detail Estimation of Snow Covered Area from NOAA AVHRR Data with New Extracting Method of Pixel Inside Information

A. Rikimaru, T. Oshima, T. Kuwabara and H. Mukai (Japan)

The Survey Method by Using Aero-Video Data and Its Application

Y. Takahashi(Japan)

Studies on the Estimation of the Land Use in the Tokyo Metropolitan Area by Landsat Thematic Mapper Data

H. Tarumi, S. Fujii and H. Kenmotsu(Japan)

July 4, 1988 Monday
Room : 552—557

P03 Time : 14:00—16:30

<Commission I>

Some Considerations about Inter-Satellite Calibration

G. Begni, M. Leroy and M. Dingirard(France)

Optimal Position Estimation in Digital Image Metrology

D.I. Havelock(Canada) and H. Ziemann(F.R. Germany)

MATRA's Thematic Multispectral Scanners

P. Lagrave(France)

Investigation of the Effectiveness and Applications of Japanese ERS-1 Stereoscopic Images

N. Mori, H. Takaoka, K. Tonoike, J. Komai and S. Murai(Japan)

Studies on the Automatic Control of an Aerial Camera

K.-H. Schmelovsky, St. Irmischer and J.

Winkler(German Dem.Rep.)

New Features of the LMK Aerial Camera System

G. Voss, U. Zeth and N. Diete(German Dem.Rep.)

<Commission III>

Digital Modelling by Using the Integrated Geodesy Approach

R. Barzaghi, B. Crippa, G. Forlani and L. Mussio(Italy)

Terrain Classification by Cluster Analysis

M. Crespi, G. Forlani, L. Mussio and F. Radicioni(Italy)

An Extension to Matrix Calculus and Its Application to Photogrammetry

E. Dorrer(F.R. Germany)

Graphical Solutions of Orientation Problems in Photogrammetry

W.N. Hanna(Egypt)

Photogrammetric Mapping of SPOT Images with BINGO in the PHOCUS System

E. Kruck(F.R. Germany)

Photogrammetric Adjustment of Triple Stereoscopic Imagery of an Airborne CCD Scanner

M. Lehner and R.S. Gill(F.R. Germany)

Photo-Geomorphic Clue to Detection of Landslide-Prone Slopes, Drawn from Notable Disasters in Postwar Japan

S. Hatano and N. Oyagi(Japan)

Discovery of a New Mineralized Area in Lombok Island of Indonesia Indicated by the Remotely Sensed Image Data

R. Kouda(Japan), Suwijanto, K. Suhariono(Indonesia),

Y. Miyazaki, H. Muraoka and Y. Ninomiya(Japan)

New Analytical Method of Geological Lineament by Using LANDSAT Imagery

M. Kuniyasu, A. Iwashita, H. Watanabe, Y. Mizuochi and Y. Maruyama(Japan)

Characteristics of Surficial Brightness Temperature and Reflective Spectrum in Sporadic Permafrost Region

F. Liang and Q. Zeng(China)

Application of TM Data to a Geologic Structure Study of the Eastern Liaoning Province, China

I. Sato(Japan), Z. Deng, P. Wang(China),

Y. Yamaguchi, M. Urai and Y. Ninomiya(Japan)

Investigation of Lineaments from Remote Sensing Data

S. Tsuchida, Y. Yamaguchi and H. Hase(Japan)

Development of a Field Radiometer as a Ground Truth Equipment for the Japanese ERS-1

Y. Yamaguchi, I. Sato and T. Ohkura(Japan)

P03 Time : 14:00—16:30

The Generation of Epipolar Synthetic Stereo Mates for SPOT Images Using a DEM

M.A. O'Neill and I.J. Dowman(United Kingdom)

Orientation Theory of CCD Line-Scanner Images

A. Okamoto(Japan)

General Free Net Theory in Photogrammetry

A. Okamoto(Japan)

Automatic Contour Drawing Programs "COP" and "COD"

N. Ölcüoğlu(Turkey)

Orientation by Complex Transformation for Incomplete Model

K.M. Phoneko(Singapore)

Compiler Positioning System: An Array Algebra Formulation of Digital Photogrammetry

U.A. Rauhala(U.S.A.)

The Bayesian Inference and Outliers Detection in Phototriangulation

J.F.C. da Silva and J.B. Lugnani(Brazil)

An Alternative Mathematical Model to the Collinearity Equation Using Straight Features

A.M.G. Tommaselli and J.B. Lugnani(Brazil)

<Commission IV>

Photogrammetric Use of SPOT Stereoscopic Imagery for Topographic Mapping

E. Onstein, O. Andersen and O. Eriksen(Norway)

<Commission VI>

Activities of the Egyptian Remote Sensing Center since 1984

A.S. Ayoub and M.A. Diefallah(Egypt)

<Commission VII>

Use of Digital Images as a Mineral Prospecting Tool in the Tin Province of Goias, Brazil

R.A. Filho(Brazil)



July 6, 1988 Wednesday
Room : 552-557

P04 Time : 14:00-16:30

<Commission II>

Terrain Height Estimation Using a HRV Stereo Pair
K. Arai, N. Fujimoto, H. Sato and S. Koizumi(Japan)
The New Kern DSR Series of First Order Analytical Plotters

A. Chapuis and J. van den Berg(Switzerland)
KRIS Kern Raster Image Superimposition System
L. Cogan, D. Harbour and C. Peny(Switzerland)

MATRA TRASTER T5S

H. Deheinzeln(France)

A Stereodigitizer for Rolleimetric System

G. Fangi(Italy)

Galileo DIGICART 40: An Analytical Instrument Based on a Personal Computer

C. Giancarlo, F. Nicola and F. Franco(Italy)

Stereo Transfer Master---A New Planimetric Plotter for One-Fourth Enlarged Photos of a Stereopair

R. Hu(China)

Orthophoto Production in the New Context MAPPER System

W. Müller(F.R. Germany) and H. Sauleda(Sweden)

The G3/PC Stereocord-A Simple Analytical Plotting Instrument on a PC Basis

R. Schwebel, H. Mohl and H.-W. Faust
(F.R. Germany)

<Commission III>

The Accuracy of Perspective Centers Determination and Their Role in Aerial Triangulation

M.E.O. Ali(Qatar)

Space Photogrammetry: Adjustment by the Program GLOBO

B. Betti and G. Forlani(Italy)

An Adjustment of Photogrammetry Combined with the Geodetic Data and GPS

H. Chikatsu, N. Kasugaya and S. Murai(Japan)

High Altitude Aerial Triangulation without Ground Control
I. Colomina(Spain)

A Proposed Polynomial for Geometric Rectification of Orbital SAR Imagery

M.A. Diefallah(Egypt)

An Out of Core Solution of Normal Equations Providing Also Accuracy and Reliability Data

M. Gsandtner and H. Kager(Austria)

Aerial Triangulation of SPOT and Aerial Photography

K. Jacobsen, H. Engel, P. Lohmann and G. Picht(F.R. Germany)

Bundle Adjustment of SPOT Imagery

D. Li and J. Cheng(China)

BLUH Bundle Block Adjustment Method Applied for Large Size Project in Middle East

H. Takahashi(Japan)

Comparisons of Orientation Accuracy between Types of Control Data for SPOT Imagery

O. Uchida and S. Viseshsin(Japan)

Results of Computer Simulation in Aerial Triangulation

S. Yagi(Japan)

Q04 Time : 16:30- * 13:00

<Commission II>

Digital Image Correlation on the Analytical Instrument Kern DSR11

U. Almroth(Sweden)

The Kern Digital Stereo Correlator in Close-Range Applications

U. Almroth(Sweden)

Experiences with the Wild System 9-AP and Its Stereo Image Injection System

J.-D. Bonjour, G. Eitel and O. Kölbl(Switzerland)

Intergraph's TIGRIS Software Family

J. Dykstra(U.S.A.)

MATRA TRASTER T10N Digital Stereoplotter

G. Euget and C. Vigneron(France)

Stereo Matching Project in Japan

S. Hattori, S. Murai, H. Ohtani and R. Shibasaki
(Japan)

1:50,000 Basemap Generation from Satellite Imagery

L. Heuse and D. Hawkins(Canada)

Image Orientation on the Kern DSR

D. Hunter and J. Smart(Switzerland)

Towards the Digital Future

S. Lutz(Switzerland)

A Universal Algorithm for Photogrammetric Computations

R.,-P. Mark and G. Bauer(German Dem. Rep.)

Digital Mapping System-PADMS-

T. Nakamura and H. Miyoshi(Japan)

Realisation of Automatic Correlation within a Digital Stereo Plotter

V. Sasse and G. Altrogge(F.R. Germany)

A Photogrammetric Monoplotter for Digital Map Revision Using the Image Processing System GOP-300

J. Stokes(Sweden)

<Commission III>

Sequential Satisfisition for a Photogrammetric Block Triangulation and a Geodetic Control Network

F. Crosilla and T. Russo(Italy)

Quality Analysis of Bundle Block Adjustment with Navigation Data

D. Li and J. Shan(China)

Fast Implementation for Generating Epipolar Line Images with One-Dimensional Resampling

Y. Lü and Z. Zhang(China)

A Sound Approach for Stereo Three-line Scanner's Images

J. Wu(China Taipei)

<Commission VII>

Mapping the Heterogeneity of Agricultural Fields by Means of Aerial Photography

J.G.P.W. Clevers, G.W.A.M. Heijden and D.L.C.B.

Swan(The Netherlands)

An Attempt of Suitable Land Selection for Regional Agricultural Development Using Remote Sensing Data and Geographical Information

K. Morimoto, K. Yoshinaga, M. Setojima and

K. Shibata(Japan)

July 6, 1988 Wednesday
Room : 552—557

P04 Time : 14:00—16:30

<Commission VII>

Crop Growth Diagnosis from Low Altitude Platform-Sensor Systems

T. Akiyama, M. Shibayama and Y. Yamagata(Japan)
Definition et Determination des Unites Dynamiques d'un Paysage Sahelien (OURS), pour un Diagnostic des Facteurs de Degradation et de Regeneration des Ressources Naturelles et Renouvelables

H. Andrianasolo and C. Malek(France)

Comparison among Selected Landsat-5 TM Data for Forest Surveys

K. Chiao and C. Chow(China Taipei)

British National Air Photo Surveys 1969—88 and Landscape Monitoring

R.P. Kirby(United Kingdom)

Automatic Road Selection from LANDSAT Data

T. Oshima, Y. Emori and Y. Yasuda(Japan)

Environmental Studies Using the Remote Sensing Data in Civil Engineering Project

T. Oshima, S. Tanaka, T. Sugimura and

M. Yoshimura(Japan)

A National Land Use Mapping in 1:250,000 of the Philippines within One Year Time

H. Rasch, U. Kihlblom and D. Rosenholm(Sweden)

LANDSAT TM and Agrometeorological Data for Wheat Yield Estimation at the Farm Level

B.F.T. Rudorff and G.T. Batista(Brazil)

Digital Analysis for Evaluating Functions of Forest and Agricultural Lands in a Watershed

H. Sawada, Y. Awaya, I. Ohnuki and S. Tsuyuki (Japan)

Landsat Data and Airphotos as Applied to Land Use/Cover Mapping and Change Analysis of Taipei Area

K. Shiau(China Taipei)

Optical and Digital Interpretation of "SPOT" Imagery for Land Resources Planning and Management in Northeastern Brazil

H.S. Teotia, W.C. Kennard and D.L. Civco(U.S.A.)

Classification of Land-Cover Based on Statistical Verification

I. Yokoyama, C. Deguchi, M. Numata and

K. Matsuo(Japan)

July 7, 1988 Thursday

Room : 552—557

P05 Time : 14:00—16:30

<Commission II>

"TerraSys" A Personal Interactive 3-D Terrain Modeling and Analysis System

N.I. Levy(Israel)

<Commission IV>

The Photogrammetry in Coal Mine Surveying

G. Chen(China)

Updating Base Maps for Planning of Sewage Systems by Simple Technique

M.A.M. Diefallah(Egypt)

Photogrammetric Improvement for Map Revision

J.B. Lugnani(Brazil)

Q04 Time : 16:30— * 13:00

Approach to Estimation of Mangrove Resources Using Remote Sensing and a Trial in Okinawa

K. Sato and T. Hoshi(Japan)

Methods to Supplement Insufficient Ground Survey Data for Land Cover Classification

T. Sekiguchi, M. Akiyama, K. Koido and H. Sasajima (Japan)

Improvement of Classification Accuracy with Consideration of the Mixture of Land Covers

R. Shibasaki, H. Shimamura and M. Shizukuishi (Japan)

Mapping Arctic Vegetation on Svalbard, Norway, Using LANDSAT Thematic Mapper Data

S. Spjelkavik and A. Elvebakk(Norway)

Introduction of the Remote Sensing System in the Tropical Rain Forest Research Institute, Indonesia

S. Takahata and S. Risan(Japan)

Flood Inundation and Rice Crop Damage Analyzed by Multitemporal TM Data

Y. Yamagata, C. Wiegand, T. Akiyama and

M. Shibayama(Japan)



Q05 Time : 16:30— * 13:00

<Commission II>

Kern DSP 1-Digital Stereo Photogrammetric System

L. Cogan, D. Guban, D. Hunter, S. Lutz and C. Peny(Switzerland)

<Commission III>

Determination of GCP Location to Subpixel Values in Landsat Imagery

K. Yoshino and E. Yamaji(Japan)

<Commission IV>

Digital Photogrammetric Mapping for Istanbul Land Information System

A. Alkis, Z. Sagay and D. Koyuncu(Turkey)

July 7, 1988 Thursday
Room : 552—557

P05 Time : 14:00—16:30

Map Production and Map Revision with PHOCUS
K. Menke(F.R. Germany)

Status and Future of Topographical Mapping in Nigeria
J.A. Ogunlami(Nigeria)

An Application of Attitude and Terrestrial Data to Geometric Correction of Aerial Scanner Imagery
K. Pyka and Z. Sitek(Poland)

Terms and Conditions for Survey Contracts
L. Scott(United Kingdom)

Advances in Mapping in Indonesia
P. Suharto, L. Polderman and K. Temfli(Indonesia)

Photogrammetric Determination of Surface Deformation in the Krafla-Fissure Swarm, NE Iceland
K. Wendt(F.R. Germany)

<Commission III/IV>

A Geo-Code Model for the Use of Geographic Information System
A. Ma(China)

<Commission V>

Photogrammetrische Deformationsmessung von Fahrzeugkomponenten
H. Bruhn and K. Wendt(F.R. Germany)

Photogrammetric Wave Profile Determination
A. Georgopoulos, C. Ioannidis, C. Potsiou and J. Badekas(Greece)

Reseau-Scanner Rolleimetric RSI-Anwendungen in der Nahbereichsphotogrammetrie
T. Luhmann and J. Peipe(F.R. Germany)

On a Travel Time Estimation Method Based on Aerial Photographs
Y. Makigami and M. Hayashi(Japan)

A Comparison between Photogrammetry and a Surface Profile Meter for the Determination of Surface Topography for Micro-Erosion Measurement
C.L. Ogleby, R.B. Grayson and R.D. Barling(Australia)

Microscope and X-Ray Photogrammetry and Their Medical Application
T. Oshima and T. Maruyasu(Japan)

ISO and Industrial Photogrammetry
T. Oshima, K. Harada and S. Horibe(Japan)

Deformation Analysis Using the Results of Combined Adjustments
G. Picht and E. Kruck(F.R. Germany)

Measurement of Ship Propellers Underwater Using a Photogrammetric Method
G. Robertson(U.S.A.)

The Development of a PC-based Near-Real-Time Photogrammetry System PHOENICS
H. Rüter and N. Parkyn(South Africa)

The New Rail and Clearance Measuring Draisine of the Austrian Federal Railways
P. Waldhausl, H. Mann and G. Presle(Austria)

The Determination of Deformation of Connecting Beam under the Repeated Loads by Use of the Non-Metric Camera
L. Wang, Q. Fan and Yang. D.(China)

Q05 Time : 16:30— * 13:00

GIST, a Geographic Information System Toolkit for Water Resource and Engineering Applications
T.E. Beaumont, J.J. Burke, J. Davie, M.J. Leese and S.P.R. Vincent(United Kingdom)

Determination of the Useful Area of Land by Photogrammetric Analytic Method
W. Li and G. Li(China)

Revision of Medium Scale Topographic Maps Using Space Imagery
J. Manning and M. Evans(Australia)

Applied Research on Dry-Printing Technology for Remote Sensing Photo Images
S. Masuda, K. Osa, Y. Maruyama, T. Michino, T. Murata and T. Fujino(Japan)

Utility of Photogrammetry Using Time-Series Aerial Photo for Landslide Investigation in Japan
M. Nagaoka and K. Takada(Japan)

<Commission III/IV>

Modeling of Land Evaluation in GIS
C. Liu(China)

<Commission V>

Photogrammetry Integrated with CAD/CAM Technology
R. Anderson(Sweden)

Deformation Monitoring by Means of Monoscopic Photography
J. Badekas and A. Georgopoulos(Greece)

Luminous Conical Signal for Day and Night-Time Surveys
G. Bozzolato(Italy)

Moire Technique in Control of Epidemic Spinal Curvature
A. Bujakiewicz(Zimbabwe)

Towards an Automated Data Flow in Digital Close Range Photogrammetry
D. Fritsch and G. Strunz(F.R. Germany)

A New Technique for Deciding Convexity or Concavity on Moire Fringes in Biostereometrical Analysis of Motion
T. Ikeda, Y. Shirota and H. Terada(Japan)

Photogrammetry : A Method for Three-Dimensional Inspection of Equipment inside Nuclear Installations
A. Martin(France)

Digital Image Processing and Stereoscopic Measurement of a Convergent Pair of Images
C. Mori and M. Hirokane(Japan)

Computer Generated Mosaic of Underwater Photographs of Ancient Amphorae, Offshore the Syria
S. Murai, H. Kakiuchi, K. Hano, K. Tsuboi and S. Tanabe(Japan)

A Photogrammetric Method for Measuring the Change in Body Volume Associated with Anaesthesia
I. Newton(United Kingdom)

3-D Controlling Technique Using CAD System for Cenotaph Restoration in Hiroshima Peace Memorial Park by Close-Range Photogrammetry
T. Oshima, Y. Suga and S. Nishimura(Japan)

July 7, 1988 Thursday

Room : 552—557

P05 Time : 14:00—16:30

A Lightweight Stereocamera and Its Application in Seismology and Geology

L. Wang, Q. Wang and Q. Fan(China)

<Commission VII>

A Regional Tectonic Study of NE and E Africa and Its Implication for Mineral Exploration : A Snoopic View from Stallite Imagery

S.M. Berhe(United Kingdom)

Effects of Spatial Resolution to Landcover Classification Accuracies for SPOT HRV and LANDSAT TM Data

H. Shimoda, Y. Kasai, R. Yamaguchi, K. Fukue and T. Sakata(Japan)

Q05 Time : 16:30— * 13:00

Traffic Accident Site and Photogrammetry—Present Status of Photogrammetry Applied to Traffic Accident Site in Japan—

T. Oshima and K. Oyamada(Japan)

Geometrical Quality Control in Nuclear Power Stations A Procedure for High Precision Underwater Photogrammetry

H.-J. Przybilla, R. Kotowski, A. Meid and B. Weber (F.R. Germany)

Digital Object Recording by Means of Reseau-Scanning

W. Riechmann(F.R. Germany)

Determination of Pavement Cracks from Photo Imagery Taken BY a Slit Camera

H. Taura, M. Ohama and K. Tanji(Japan)

Object Surface Measurement and Replication by Photogrammetry and Computer Aided Design

A. van Voorden, J.J. Broek and J.S.M. Vergeest(The Netherlands)

High Resolution Digital Object Recording by Video-Theodolite

W. Wester-Ebbinghaus(F.R. Germany)

Underwater Mapping from Aerial Photography

M.S. Wheda(Libyan Arab J.)

<Commission VII>

Use of NOAA AVHRR Data for Snow Cover Mapping in Mountain Areas in Norway

O. Dick, E. Loberg, T. Andersen, A. Killingtveit and T. Faanes(Norway)

An Introduction to the Method of Interpretation on Thermal Resources on Hilly Region in the East of Subtropical Belt(China) with the Thermal IR Data from the LANDSAT TM Sensor

M. Wang, Y. Ye and Z. Guo(China)

July 8, 1988 Friday

Room : 552—557

P06 Time : 14:00—16:30

<Commission II>

GCP Acquisition Using Simulated SAR Derived from DTM

K. Arai and N. Fujimoto(Japan)

Modernization of U.S. Geological Survey Mapping Systems

E.B. Brunson(U.S.A.)

Kern Integrated Systems Hardware and Software Architecture

L. Cogan and A. Polasek(Switzerland)

Kern Digital Mapping System for SPOT Imagery

L. Cogan, D. Hunter, S. Lutz and C. Peny(Switzerland)

Some Methods for Standardization Enhancement and Handling of Satellite Data in China RSGS

Y. Gu and Z. Dai(China)

An Efficient Object Space Algorithm for Spaceborne SAR Image Geocoding

J. Raggam(Austria)

PRF Ambiguity Resolver for SAR

H. Runge(F.R. Germany)

The Special Features and Versatile Interfaces of the Planicomp P-Series

J. Saile(F.R. Germany)

Integration of Satellite Imagery Using a GIS 'Toolbox'

A. Stevens, M.J. Jackson and W.J. James(United Kingdom)

Q06 Time : 16:30— * 13:00

<Commission II>

SAR Activities at Dorneir

H.M. Braun and G.H. Rausch(F.R. Germany)

Kern Photogrammetric Software

L. Cogan and D. Hunter(Switzerland)

PADRAS-PASCO Automobile DRAWing System-

H. Hasegawa and K. Uesugi(Japan)

Synthetic Aperture Radar Image Efficient Encoding

R.W. Okkes(The Netherlands)

Comparison of TM, SIR-B and Simulated Radar Images in Particular Consideration of Forest Classification

A. Popella and M. Schardt(F.R. Germany)

EXAS-Experiment on Autonomous SAR Processor Calibration

H. Runge, A. Popella and W. Noack(F.R. Germany)

<Commission III/IV>

The KUDAMS-Project—the Establishment of an Urban Integrated Data Base by Photogrammetry

G. Al Thaqeb, R. Padmanashan(Kuwait) and

G. Konecny(F.R. Germany)

Spatial Access to Thematic and Topological Structures in Geo-Information Systems

N. Bartelme(Austria) and B. Spaeni(Switzerland)

July 8, 1988 Friday
Room : 552-557

P06 Time : 14:00-16:30

Results of Automated Digital Elevation Model Generation from SPOT Satellite Data

R. Swann, D. Kauffman and B. Sharpe(Canada)
Zeiss Digital Mapping-A New Hardware and Software System Concept from Kombinat VEB Carl Zeiss JENA

W. Wallwitz(German Dem.Rep.)
Parametrization of Sampled Chirps of SAR Range Compression Matched Filtering

T. Wolff(F.R. Germany)
<Commission III/IV>

Study Related to the Vector Map Output of Image Data—Organic Combination of Raster Data and Vector Data—
Y. Akamatsu, M. Setojima and Y. Oguchi(Japan)

GIS Based Integration and Evaluation of Multisource Datasets for Forest Damage Investigations
F.J. Behr, H.O. Saurer and H.P. Bähr(F.R. Germany)

A Study and Application of Interactive Graphics Techniques in Tour Information in Taiwan Area
W. Chen(China Taipei)

Digital Mapping to Assist Residential Planning Using Landsat Data

C. Deguchi, M. Numata, T. Kamei and I. Yokoyama (Japan)

Object Oriented Management of Raster Data in Geographic Information Systems

D. Fritsch, M. Schilcher and H. Yang(F.R. Germany)
A Concept for Automatic Change Detection in Revision of Topographic Maps by Means of Digital Image Processing and Pattern Recognition Techniques

L.M.A. Graca(Brazil)

Automatic Object Recognition in Line Maps
T. Kilpeläinen(Sweden)

Automatically GIS Updating from Classified Satellite Images Using GIS Knowledge

M.J.P.M. Lemmens and K.F. Verheij(The Netherlands)
GPS/ALP Approach to Integrating Remotely-Sensed Data and Geographic Data

J. Liu(China Taipei)

Elaboration d'un Systeme National d'Informations Geographiques

C. Saint Riquier(Canada)

Updating Urban Land Use Data in Geographic Information System Using Landsat Images

H. Shimamura, M. Thant, S. Yomoda and H. Takeuchi(Japan)

Digital Mapping of Japan's National Large-Scale Maps
S. Yagi(Japan)

Land Information System Based on Land Cadastre
N. Zegheru(Romania)

<Commission VII>

Extraction of Topographic Data from LANDSAT Imagery
M. Hamrah and R. Fayaz(Iran)

Atmospheric Correction of NIMBUS-7 Data Based on the Multiple Scattering Calculation S. Mukai(Japan)

Multiviewing Linear Models for Estimating Suspended Sediment Concentration (SSC) from Remotely Sensed Data E.M.L.M. Novo and M. Godoy Jr.(Brazil)

Change Detection Study with SPOT Data: An Operational Status

M. Pousse(France) and J.-P. Delsol(Kenya)

Landsat Derived Shade Images of Forested Areas

Y.E. Shimabukuro, V.F.A. Haertel and J.A. Smith(Brazil)

Estimation of the Simulated JERS-1 Data

T. Takemura, I. Kohno, I. Kakimoto, K. Arai and E. Tonoike(Japan)

Q06 Time : 16:30- * 13:00

Experience of Creating a Map Information System to Integrate Photogrammetric, Geodetic and Remote Sensing Data

T. Chen(China Taipei)

Istanbul Land Information System

C. Evranuz, A. Alkis and M. Erman(Turkey)

Interactive Graphics in Stereodigitizing at Medium Scale Mapping

F.J. Garcia Lazaro, J.M. Pargade Iglesias, F.J. Quintana Llorente and J.F. Iribas Cardona(Spain)

GIS—Digital Image Interaction

M.J.P.M. Lemmens(The Netherlands)

Automatic Digitization of Conventional Maps and Cartographic Pattern Recognition

W. Lichtner(F.R. Germany)

Single Valued Polygon Maps

M. Molenaar(The Netherlands)

Data Structuring in Topographic Data Bases

M.M. Radwan, J. Kure(The Netherlands) and M. Al-Harhi(Saudi Arabia)

Suitability of a Relational Data Base Structure for Photogrammetric Data Management

R. Ruotsalainen(Finland)

Digital Mapping of Tsuchiura City

H. Sawada, M. Watanabe, K. Tomiyama and T. Fujiwara(Japan)

Digital Analysis of Forest Land Using Landsat TM and SPOT HRV Data by Personal Image Processing System

T. Senoo, T. Kubo, F. Kobayashi, S. Tanaka and T. Sugimura(Japan)

Functional Analysis of Urban Green Cover Using SPOT Data and Geographical Information

M. Setojima, T. Horiuchi and Y. Hirose(Japan)

Geographical Information System with Remote Sensing Data and Its Application in Land Use Planning

E. Shimizu and H. Nakamura(Japan)

LAND Use Phenomena Analysis Using Spatial Data Base
Y. Suga(Japan)

The Accuracy of the Digital Data in a GIS—Its Organisation and Impact on Decision Making

A. Sujanani and R. Grady(U.S.A.)

Land Information System for Land Suitability Study

S. Yanagida(Japan)

<Commission VII>

Zur Kennzeichnung Agrotechnischer Geosysteme mit Hilfe Spektraler Signaturen

H. Barsch, H. Weichelt, R. Söllner and K.-H. Marek(German Dem.Rep.)

Red Edge Shift as Vitality Indicator for Plants ?

F. Boochs, K. Dockter, G. Kupfer and W. Kühbauch(F.R. Germany)

Effect of Spatial Transformations on the Accuracy of Supervised Classification

C. Cheng(China Taipei)

Improvement of Geological Mapping in North-West Scotland

A.P. Cracknell and A.K. Saraf(United Kingdom)

Main Conclusions of the Activity of the Working Group VII-3 between 1984 and 1988

G. Guyot(France)

A Study on the Automatic Extraction of Ground Cover Changes in the Forest Area Using Remote Sensing and Existing GIS

H. Ishii, H. Shimamura and S. Yomoda(Japan)

July 8, 1988 Friday
Room : 552—557

Q06 Time : 16:30— * 13:00

Evaluation of Some Spectral and Spatial Features of Satellite Images Using Airborne MSS Data for the Analysis of Urban Area

S. Takeuchi and T. Tomita(Japan)

Application of Remoto Sensing to Benthic Marine Algae Monitoring

K. Tanaka, Y. Matsumoto and M. Takaba(Japan)

Obtention of Radiance from Digital Satellite Imagery

F.C.B. de Souza and J.C.R. Nunes(Brazil)

Classification of the Altered Zone by the GER Airborne 64 Channel Scanner

T. Takemura, I. Kohno, I. Kakimoto, K. Arai and K. Tonoike(Japan)

Soil Moisture Estimation Based on Thermal Inertia from Airborne MSS Measurements

Y. Utsunomiya(Japan)

July 9, 1988 Saturday
552—557

P07 Time : 14:00—16:30

The Image Processing Link to Geographic Information Systems

B.A. Harrison, K.K. Mayo, D.L.B. Jupp, P.G. Hutton and W. Ahmad(Australia)

NOAA Data Processing Volumes During the Polar Platform Era

R. Koffler(U.S.A.)

The Processing of SPOT Imagery in Brazil

A.J.F. Machado e Silva, J.C.L. d'Alge, P.C.R. Bezerra and O.C. Barbosa(Brazil)

MIMA, a Powerful System for Satellite Map Production

H. Malmström and E. Cronström(Sweden)

RECTIMAT CM, and Additive Colour Projector and Precision Rectifier

J. Rulf and H. Zahn(German Dem.Rep.)

Hypothesis-free Land Use Classification from LANDSAT-5 TM Image Data

B.-S. Schulz(F.R. Germany)

Optical Data Processing Using the PRIZ Light Modulator

K.I. Voliak, K.A. Boyarchuk and A.I. Maliarovskiy (U.S.S.R.)

Development of the Simple Processing System to Survey and Recognize Natural Environment by Using Image and Cartographic Data

S. Yagi, K. Mimura and E. Sato(Japan)

<Commission III>

Quadtrees and Triangulation in Digital Elevation Models

J.T. Bjorke(Norway)

Quality Assessment of Digital Elevation Models Produced by Automatic Stereo Matchers from SPOT Image Pairs

T. Day and J.-P. Muller(United Kingdom)

Relief Effect Correction on LANDSAT Imagery for Forest Applications Using Digital Terrain Models

L.A.V. Dias, E.A. de Oliveira and F.J. Ponzoni(Brazil)

Generation, Management and Utilization of High Fidelity Digital Terrain Models

H. Ebner, W. Reinhardt and R. Hössler(F.R. Germany)

A Digital Terrain Model System for a Microcomputer

C.A. Felgueiras, G.J. Erthal and L.A.V. Dias(Brazil)

Generating DEMs from Contours Using Standard Sorting Routines

P. Frederiksen and O. Maersk-Møller(Denmark)

Some Experience with the Determination of the Optimum

Sampling Density

D. Fritsch(F.R. Germany)

The Applicability of a Feature Based and a Least Squares Matching Algorithm for DEM-Aquisition

M. Hahn and W. Förstner(F.R. Germany)

DTM Generation from Digital Contour Data Using Aspect Information

K. Inaba(Japan), G. Aumann and H. Ebner (F.R. Germany)

On Line Photogrammetric Triangulation with the Stecometer C, Coordimeter F and Microcomputers

R. Kaczynski, E. Nowak and R. Preuss(Poland)

Production of the Highly Accurate Digital-Terrain-Model and Its Application to the Topographic Analysis

K. Kitagawa(Japan)

Fractal Properties of Terrain

J.-P. Muller and T. Saksono(United Kingdom)

Digital Terrain Models(DTM) from Contour Lines Upgraded by Photogrammetric Selective Sampling

A.M. Tuladhar and B. Makarovic(The Netherlands)

The Second Rice Planted Area and Production Estimate Using Digital Analysis from LANDSAT Satellite Data in 1987 Crop Year

S. Karnchanasutham, W. Dilokpattanamongkon, T. Rangsiakanbhum and V. Amarakul(Thailand)

Radiometric Correction for the Atmospheric and Topographic Effects on Landsat MSS Data

T. Kusaka, H. Egawa and Y. Kawata(Japan)

Improvement of Classification Results from a Satellite Image Using Context Information from a Topographic Map

F.B. van de Laan(The Netherlands)

Discrimination of Surface Alteration Based on Digital Processing of Airborne Multispectral Data

K. Okada, T. Yokoyama and K. Arai(Japan)

<Commission I>

A Typical Case of Integrated Remote Sensing Center Concept: The Nairobi Multipurpose Reception and Processing Center

D. Andere(Kenya) and J.-P. Antikidis(France)

Vertical and Oblique RC10 Photography from a Dauphin Helicopter-Experience Gained in Hong Kong

G. Andreassend and S. Healy(Hong Kong)

Improvement of Photogrammetric Quality of the 3-Fold Stereoscopic Linescan Camera MEOSS by Gauss-Markov Models of Satellite Dynamics

A. Drescher(F.R. Germany), H. Masaharu(Japan), R. Gill and M. Lehner(F.R. Germany)

Automated Ground Control Point Acquisition for Geometric Correction of Spaceborne SAR Data

H. Maruyama(Japan)

Calibration of the MEIS Multispectral Imager

R.A. Neville, R.P. Gauthier, J.W. Schwarz and S.M. Till(Canada)

Design Aspects of a System for Geocoding Satellite SAR Images

G. Schreier, D. Kosmann and A. Roth(F.R. Germany)

<Commission II>

A Satellite Assisted-Tracking System with Real-Time Accomodation for Maximal Pointing Accuracy

J.L.B. Aguirre and V.M. de Medeiros(Brazil)

Information Transfer Using the SFDU

F. Billingsley, J. Johnson, E. Greenberg and M. MacMedan(U.S.A.)

Distributed Image Processing (DIP)

K. Bjornå(Norway)

The Design of Weather Satellite Ground Station

C. Ge and Z. Zhu(China)