

Sun

Preliminary Program
The 19th Asian Conference on Remote Sensing

16-20 November 1998
Traders Hotel , Manila , Philippines

November 16 , Monday 1998

8:00- 9:00 **Registration**

9:30- 10:00 Opening Ceremony

Welcome Address: *Mr.Liberto A. Manuel; Administrator,NAMRIA, Philippines*
Opening Remarks: *Professor Shunji Murai*
General Secretary, Asian Association on Remote Sensing
Openning Address: *Hon. Antonio H. Cerilles, Secretary, Dept. of Environment and Natural Resources*
Hon. Vicente Sotto III, Senate Chair on Science and Technology

10:00-10:30

Break

10:30-11:00

Keynote Address: Speaker to be informed
"Geoinformatics in the 21st Century"

11:00-12:30

Plenary Session: Technology Transfer in Remote Sensing ;
How to widen the users and market base?
Chair : Shunji Murai
Co-chair : Virgilio S. Santos
Panelists : To be determined

12:30-14:00

Welcome Luncheon sponsored by RADARSAT

14:00-16:40

Special Session on Technical Information
RADARSAT ; Dr. Gordon C. Staples
ITC ; Prof. John L. Van Genderen
NASDA
RESTEC

19:00-21:30

Welcome Party

14:00-

Commercial Exhibits start (Nov. 16-20)

November 17 , Tuesday 1998

9:00-11:30 Room A: Session A Agriculture/Soil

Chairperson: Dr. Jose Rondal (Philippines)

- A-1 Correlation of Spectral Reflectance to Growth in Rice Vegetation
Chwen-Ming Yang* and Muh-Rong Su; Taiwan Agricultural Research Institute (China Taipei)
- A-2 to be selected from Philippines
- A-3 Estimation of Regional Wheat Production Using Landsat-TM Data
Hu Deyong*, He Guojin*, Yang Youchang* , Hao Yide** and Li Bingdong**
; *China Remote Sensing Satellite Ground Station, ** Beijing Technique Popularizing Station of Agriculture (China)
- A-4 Towards Operational Rice Crop Monitoring with RADARSAT-1
Gordon C. Staples*, S. Ross**, B. Brisco**, R.J. Brown***, and S. Yun**** ; *RADARSAT, **Noetix Research, ***CCRS, **** Inst. of Remote Sensing Applications (Canada)
- A-5 Estimation of Agricultural Productivity Distribution in India
Yujiro Hirano, Shiro Ochi, Ryosuke Shibasaki; Univ. of Tokyo (Japan)
- A-6 to be selected from Philippines
- A-7 Evaluation of Agricultural Land Decisions Using Multispectral Images and Crop Models
Tien-Yin Chou , Hui-Yen Chen; Feng Chia Univ (China Taipei)
- A-8 Using an EM Model in Remote Sensing of Soil Surface from Polarimetric SAR Data
Kun Shan Chen and T.D.Wu; National Central University (China Taipei)
- A-9 GIS-Based Modeling of Agroecosystem
Satya Priya and Ryosuke Shibasaki ; University of Tokyo (India)

November 17 , Tuesday 1998

9:00-11:30 Room B: Session B Water Resources

Chairperson; Dr. Allan Pineda (Philippines)

- B-1 Development of 1km Drainage Model based on GTOPO30 and Global Data Sets
Shiro Ochi, Ryosuke Shibasaki; Univ. of Tokyo (Japan)
- B-2 to be selected from Philippines
- B-3 Detection of Coast lines of Tonle Sap Lake in Flood Season using JERS-1 Data for Water Volume Estimation
Teng Peng Seang, Shunji Murai and Kiyoshi Honda ; AIT(Thailand)
- B-4 Ground Subsidence due to Perculating and Pumping Water
R. Aialloeian ; University of Isfahan (Iran)
- B-5 Reservoir Water Quality Monitoring Using Landsat TM Images and Indicator Kriging
Ke-Sheng Cheng and Tsu-Chiang Lei ; National Taiwan University (China Taipei)
- B-6 to be selected from Philippines
- B-7 The Application of Remote Sensing and Hydrological model on Water Conservation Capacity Estimation for Reservoir Watershed Area
Lung-Shin Yang* Tien-Yin Chou* Mei-Hsin Chen*; *Feng Chia Univ (China Taipei)
- B-8 Remote sensing of SST around the outfall of a power plant from Landsat and NOAA Satellites
Ruo-Shan Tseng; Nat. Sun Yat-Sen University (China Taipei)
- B-9 Study on the Numerical Simulation of Flow Pattern in Freshening Reservoir using Satellite Image Data
Moon So Choi*, Takashi Hoshi*, Kiyoshi Torii**; *Ibaraki Univ., **Kyoto Univ. (Japan)

13:00-15:30 Room A : Session C  Disasters/Pollutions

Chairperson; Dr. Emmanuel Ramos (Philippines)

-  C-1 Flood Damage Mapping in North Korea Using Multi-Sensor Data
Choen Kim; Kookmin University (Korea)
- C-2 to be selected from Philippines
-  C-3 Remote Sensing and GIS in Oil Spills Risk Assessment
Shattri B. Mansor , Tee Tuan Poy and Hamid Assilzadeh; Universiti Putra Malaysia (Malaysia)
- C-4 Environmental GIS database for Desertification Modeling Case study: West Asia
Hussein Harahsheh and Ryutaro Tateishi ; Chiba Univ. (Jordan) and (Japan)
-  C-5 Assessment of Debris Flow Risks along Sindhuli Highway in Nepal using GIS and RS
Mona Lacoul*, Lal Samarakon*, Kiyoshi Honda* & Shunji Murai* ,A. Ishibashi; **AIT (Thailand) **Nippon koei Co. Ltd (Japan)
- C-6 to be selected from Philippines
-  C-7 Characteristics of satellite SAR images in the damage area by the 1995 Hyogoken- Nanbu Earthquake
Hisashi Aoki*, Masashi Matsuoka*, Fumio Yamazaki**; *The Institute of Physical and Chemical Research (RIKEN) and ** Univ. of Tokyo(Japan)
- C-8 The Application of Remotely Sensed Image in Watershed Soil Erosion Estimation
Tien-Yin Chou, Ju-Hui Lai; Feng Chia Univ (China Taipei)

13:00-15:30 Room B: Session D Education/Training

Chairperson; Prof. Epifanio D. Lopez (Philippines)

- D-1 Training Activities of ESCAP in Earth Observation
Virgilio S. Santos and Randy John Vinluan; UN/ESCAP
- D-2 to be selected from Philippines
- D-3 Activities of Education, Training and Research at Asian Institute of Technology
Shunji Murai, Lal Samarakoon and Kiyoshi Honda; AIT (Thailand)
- D-4 The New ITC Educational Program on Environmental Earth Sciences
J.L.van Genderen; ITC (Netherlands)
- D-5 Pilot Project for Public Use in Thailand
Masaru Tsukamoto; NASDA (Japan)
- D-6 to be selected from Philippines

November 17 , Tuesday 1998

16:00-17:30 Session P: Poster Session

- P-1 Evaluation on the Usefulness of Digital Microscope Photogrammetry for the Measurement of Small Object
Won-Jin Oh ; Chung Cheong College (KOREA)
- P-2 Investigation of High-latitude Tracer Characteristics by using ILAS and other Satellite Data
Wookap Choi; Seoul National University (Korea)
- P-3 Using SPOT, RADARSAT and GIS
Lau, Chi-Chung and Shiao, Kuo-Hsin ; Industrial Technology Research Inst.(China Taipei)
- P-4 Forest Burned Area Mapping Using SPOT Images
Gwo-Jern Hwang* and Wen-Fu Chen**; *Technician of Forest Service in Taiwan,
**National Chung-Hsing Univ. (China Taipei)
- P-5 A Linear-Feature Based Method for Quality Assessment of Remotely Sensed Images
Shue-chia Wang ; Cheng Kung University (China Taipei)
- P-6 Observed Spatial Variation in Precipitable Water Vapor by a Ground-based, Dual-channel Radiometer
Yuei-An Liou; National Central University (China Taipei)
- P-7 Spatial Information Systems Which You can Make
Mu-Lin Wu; Nat. Pingtung Univ. of Science & Technology (China Taipei)
- P-8 Dual channel algorithm for retrieval of sea surface temperatures from satellite thermal images
Khiruddin Abdullah*, N. Mohd Saleh*, Y. Mahamod*, R. Rainis*, A.Bahari** ; *Universiti
Sains Malaysia, **Malaysian Meteorological Service (Malaysia)
- ✕ P-9 Development of GIS Based Oil Spills Risk Management System
Tee Tuan Poy and Shattri B. Mansor ; Universiti Putra Malaysia (Malaysia)
- ✕ P-10 Coastal Erosion Modeling using Remotely Sensed Data
Shattri B. Mansor and Mohd. Ibrahim Hj. Mohamed; Univ. Putra Malaysia
(Malaysia)
- P-11 Precision Fishing
Shattri B. Mansor and Mohd. Ibrahim Hj. Mohamed; Univ. Putra Malaysia
(Malaysia)
- ✕ P-12 A study of neural network classification using JERS-1/OPS image
Somying Promcharoen and Yuttapong Rangsanseri ; King Mongkut's Inst.of
Technology(Thailand)
- ✕ P-13 Using Stationary Wavelet Transform in the Classification of SAR Images
Warin Chumsamrong and Punya Thitimajshima ; King Mongkut Institute of Technology
(Thailand)
- P-14 A Simple SAR Speckle Reduction by Wavelet Thresholding
Punya Thitimajshima ; King Mongkut Institute of Technology (Thailand)
- P-15 A Study on the Spectral Characteristic of Water Aphids Calamity
Hu Deyong*, He Guojin*, Yang Youchang* , Li Guoqiang** Jin Xiaohua** , Yang
Jianguo ; *China Remote Sensing Satellite Ground Station, ** Plant Protecting of Beijing
(China)
- ✕ P-16 Application of Remote Sensing and Geographical Information System (GIS) in the Woody
Vegetation Cover in Nepal
Gyani Babu Juwa; Forest Research and Survey Centre (Nepal)
- ✕ P-17 Application of Remote Sensing and Geographical Information System (GIS) in Forest Survey
in NEPAL
Gyani Babu Juwa; Forest Research and Survey Centre (Nepal)
- ✕ P-18 Investigation on the State and the Processes of Droughtiness in the Brained Tract, NW
Bangladesh using Landsat TM Data.
A.Z.MD. Zahedul Islam ;SPARRSO(Bangladesh)
- P-19 Generation of the North Caspian Bathymetric Map Using Multi-Temporal Satellite Images,
Republic of Kazakhstan -with special emphasis on seismic planning purposes-
Masataka Ochi*, M.Hatanaka**, N. Oikawa***, T.Hoshi , *Nikko Exploration &
Development , **Japan Energy Development, ***ERSDAC , **** Ibaraki Univ. (Japan)
- ✕ P-20 Mathematical Model of the Membrane Protective System : Problems of Space Monitoring of
Natural Disasters and Calamities.
Kasumov. F.K., Aslanov F.A; Aserbaijan National Aerospace Agency (Azerbaijan)

P-21 Space Service of the Earth ; Problems of the Forecast of Natural Disasters and Calamities
Kasumov. F.K., Aslanov F.A; Aserbaijan National Aerospace Agency (Azerbaijan)

19:00-21:30 General Conference (1) (Only for the national delegates from AARS members)

November 18 , Wednesday 1998

9:00-11:30 Room A : Session E Forest Resources

Chairperson; Dr. Renato Lapitan (Philippines)

- E-1 Characterizing Tropical Forest in Kinabalu Park, Sabah, Malaysia, using Landsat-TM Data
Phua Mui How, Hideki Saito and Masamu ANIYA; Univ. of Tokyo (Malaysia)
- E-2 to be selected from Philippines
- E-3 Applied Landsat-5 Tm And Vector Data Through Computerized Techniques In
Developing Forest Maps And Forestland Cover Maps At Thung-saliang District,
Sukhothai Province, Thailand.
Manasanan Kantontong ; Royal Forest Department (Thailand)
- E-4 Geomatics in Emergency Planning and Management: Canadian Forest Fire Management
Experience*.
P. Chagarlamudi,; Geomatics Canada (Canada)
- E-5 An Evaluation of Multi-band/Multipolarised SAR Data for Vegetation Discrimination, in
Malaysia
N.Laili, H.Mariamni , R.Ku Mohammad Noh and K.F. Loh; MACRES (Malaysia)
- E-6 to be selected from Philippines
- E-7 Decision of Threshold Values for Extraction of Mangrove Area With TM Data of Landsat 5
Kazuhiro Sato*, M. Nakajima** and T. Hoshi***: *University of the Ryukyus, **Omodaka
Electronics Co. Ltd., *** Faculty of Engineering, Ibaragi University (Japan)
- E-8 A forest evaluation system based on comparison analysis of indicators for sustainable forest
management
Yumiko Wada and Ryosuke Shibasaki ; University of Tokyo (Japan)

November 18 , Wednesday 1998

9:00-11:30 Room B: Session F Mapping from Space

Chairperson; Dr. Ricardo T. Bina (Philippines)

- ✗ F-1 Beyond ERS: introducing ENVISAT
Robert Schumann; AIT (Thailand)
- F-2 to be selected from Philippines
- F-3 Trans-border Spatial Data Integration and Developing Countries
R.A.O'Neil*, Bob Ryerson**; *Canada Centre for Remote Sensing,**Kim
Geomatics Corporation (Canada)
- F-4 Map-Matching Algorithm of GPS Vehicle Navigation System
Tien-Yin Chou, Pen-Shan Hung, Tsui-Chuan Su, Huan-Chen Huang, Hsiu-Fen Hu ; Feng
Chia Univ (China Taipei)
- F-5 Accuracy Assessment and Improvement for Level Survey using Real Time Kinematic (RTK)
GPS
Dinesh Manandhar*, K. Honda*, S. Murai*, S. Kubo**, M. Yonemura**; *AIT, **Keio Univ.
(Thailand)
- F-6 to be selected from Philippines
- F-7 Automatic database construction methods for a very large number of satellite images
Koki Iwao , Ryosuke Shibasaki ; Univ. of Tokyo (Japan)
- F-8 Segmentation of JERS-1, Radarsat SAR and SAR Data for Mapping Coastal Vegetation In
Malaysia
Mazlan Hashim; Universiti Teknologi Malaysia (Malaysia)
- F-9 Generated Reference Ground Control Points From SAR Image
S. Wisetphanichkij*, C. Pienvijarnpong*, K. Dejhan**, F. Cheevasuvit**, S.Mitatha**,
S.Yartpramot**, C. Soonyeekean***, *NRCT, **King Mongkut's Inst. of Technology,
***Kasem Bundit Univ.

November 18 , Wednesday 1998

13:00-15:30 Room A : Session G Oceanography/Meteorology
Chairperson; Dr. Cesar Villanoy (Philippines)

- G-1 Calibration and Validation of the ADEOS Ocean Color and Temperature Scanner (OCTS) and Its Application in the Early Detection of Red tide in South East Asia (NASDA-ESCAP ADEOS Project ID: 2008/C)
Hock Lim; National University of Singapore (Singapore)
- G-2 to be selected from Philippines
- G-3 (cancelled) K-band radiometric signatures of the ocean at lower grazing angles
Ruo-Shan Tseng and Yuei-An Liou; Nat. Sun Yat-Sen University (China Taipei)
- G-4 Coastal Zone Monitoring with RADARSAT-1
Gordon C. Staples, Jeff Hurley, and R. Shawn Burns; RADARSAT (Canada)
- G-5 Development of a Radiometric Correction Algorithm for OCTS data
Mitsuharu Tokunaga; Univ. of Tokyo (Japan)
- G-6 to be selected from Philippines
- G-7 Correction of non-uniform aerosol effect of Landsat TM image by using a blockwise approached atmospheric correction model (BACM)
Chien-hui Liu* , E. F. Vermote**; *Transworld Junior College of Commerce, **University of Maryland (China Taipei)
- G-8 Estimating Atmospheric Turbidity from SPOT and GMS-5 Data
Gin-Rong Liiu, Tang-Huang Lin, A. J. Chen; National Central University (China Taipei)

13:00-15:30 Room B: Session H Land Use
Chairperson; Dr. Josefina Argete (Philippines)

- H-1 An Investigation of the Optimum Supervised Classification Method for Producing Land Cover Maps
Samsui Bachri , G.I Metternicht and G.D Lodwick; Curtin University of Technology (Australia)
- H-2 to be selected from Philippines
- H-3 Suitability of Landsat TM and JERS-1 Data in Land Cover/Use Mapping Application
Mardiana Shafiee, Noraini Surip , Noraini Ibrahim and Idris Saedin ; MACRES (Malaysia)
- H-4 Land Use Planning to Avert the Migration Oriented Watershed Degradation
Sah, Bhuwneshwar Prasad and Shimizu, Eihan; University of Tokyo (Nepal)
- H-5 Detection and Identification of L-band Cornor Reflectors in Japanese Residential Environment from JERS-1 SAR Imagery
Takako Sakurai-Amano*, S. Kobayashi*, N. Fujii**, K. Nomura*, S.Okubo*** ;*NASDA, **Nagoya Univ., ***Univ. of Tokyo (Japan)
- H-6 to be selected from Philippines
- H-7 Semi-Automatic Land Cover Classification by using ADEOS-AVNIR Multi Spectral Data
Nguyen Dinh Duong; NCST (Vietnam)
- H-8 A New Concept at Modeling Land Use and Land Cover
K S Rajan and Ryosuke Shibasaki; Univ. of Tokyo (Japan)
- H-9 Temporal Analysis of Urbanization in Asian Cities using Satellite Remote Sensing Data
Makoto Kawamura*, A. Ishibashi**, Sanath Jayamanna**, K.Tamagawa**; *Toyohashi University of Technology, **Nippon Koei (Japan)

16:00-17:30 Session Q Poster Session

- Q-1 Total Reflected Radiance Index - An Index to Support Land Cover Classification
Nguyen Dinh Duong; NCST (Vietnam)
- Q-2 Monitoring of Tidal Wetland Distinction and its Change in the Coastal Zone of North Vietnam using ADEOS/AVNIR Data
T.D.Thanh, T.D.Lan, D.V.Huy et ll; Haiphong Inst. of Oceanology (Vietnam)
- Q-3 The application of RADARSAT and Landsat-TM Images for Land Use Mapping of Metropolitan Area
Ketut Wikantika and Ryutaro Tateishi (Indonesia) and (Japan)
- Q-4 Correction of time series NDVI by the method of Temporal Window Operation(TWO)
Park Jong Geol; Chiba University (Korea)

- Q-5 Road Network Detection by Mathematical Morphology
Shunji Murai, Chunsun Zhang ; AIT (Japan)
- Q-6 Estimation of Annual Total Nitrogen Load in Lake Basin with Remote Sensing
K. Oki *, Y. Yasuoka ** and M. Inamura *; *Gunma Univ., **Univ. of Tokyo (Japan)
- Q-7 Satellite Image Data Utilization to Village Planning
Takashi Kano*, Kiyoshi Torii**, Tadashi Ushino**; *Tokyo Univ. of Fisheries, **Kyoto Univ. (Japan)
- Q-8 The Basic Study of the Maximum Logging Volume Estimation for Consideration of Sustainable Forest Resources using Time Series FCD Model
Atsushi Rikimaru*, Y. Utsuki**, S.Yamashita**; *Hosei Univ., **Japan Overseas Forestry Consultants Association (Japan)
- Q-9 Extraction of the Damage Area by the 1995 Hyogoken-Nanbu Earthquake using Satellite Optical Images
Masashi Matsuoka*, F. Yamazaki ; *The Institute of Physical and Chemical Research (RIKEN) and ** Univ. of Tokyo (Japan)
- Q-10 A New Method to Make Stereoscopic Animations and their Applications
Nobuhiko Mori; Osaka Institute of Technology (Japan)
- Q-11 Automatic Approach for Assessing Forest Disasters utilizing Simulated High Resolution Satellite Imagery
Tomokazu Hoshino, Tsutomu Suzuki, Tomoyuki Suhamma and Krishna Kumar Mishra; PASCO Corporation (Japan)
- Q-12 Reflective Properties of Mangrove Tree Crown in Okinawa
Arun Kumar Sharma*, Kazuhiro Sato** and Takashi Ishiyama***; *Central Arid Zone Research Institute (India) , **University of the Ryukyus, ***CEReS, Chiba University (Japan)
- Q-13 Expression of Qualitative and Quantitative Information on Mangrove Forest in Okinawa
Munetake Kanetomi*, Kazuhiro Sato** and Takahisa Yamauchi*; *Air-Graph,**University of the Ryukyus (Japan)
- Q-14 Inundation Mapping using time series RADARSAT SAR images in the Lower Mekong River Basin
Akihiko Imazato *, A. Rikimaru**, , T. Amano***, Y. Yamaguchi* Y. Otsubo* ;
*the Japanese Inst. of Irrigation and Drainage,** Hosei Univ. ,*** Japan Weather Association (Japan)
- Q-15 Urban Vegetation Cover Mapping with Vegetation Cover Ratio in a Pixel
Naoki Shirai*, Masahiro Setojima* ,Akira Hoyano**, Donkyu Yun**;; *Kokusai Kogyo Co., Ltd. , **Tokyo Institute of Technology (Japan)
- Q-16 Integration of Different Spatial Data --- with an example of map overlay
Yoshihide Sekimoto, Ryosuke Shibasaki ; Univ. of Tokyo (Japan)
- Q-17 Development of automatically updateable land-cover classification system using both ground truth data and heuristic knowledge with some inconsistency.
Junichi Suzuki and Ryosuke Shibasaki; Univ. of Tokyo (Japan)
- Q-18 Visualization of Annapurna Himalayan Region , Nepal with Topographic and Satellite Data
Krishna Pahari and Shunji Murai; AIT (Nepal)
- Q-19 Classification Of Reef Features In The Kalayaan Island Group Using Landsat Tm Data
Fay Mancebo, Cesar Villanoy, Marl Villanoy, Miledel Christine C. Quibilan, Laura David, Porfirio Alino; University of the Philippines (Philippines)
- Q-20 Change detection of coastal cover changes in Lingayen Gulf, Pangasinan using Landsat TM and SPOT data
Fay Franco Mancebo ; University of the Philippines (Philippines)
- Q-21 Using nighttime dmSP/OLS images of citylights to estimate district-level population distribution in Developing countries
Takahiro Konami and Ryosuke Shibasaki ; Univ. of Tokyo (Japan)
- Q-22 Application Package for Identification and Classification for Investigation Objects
Mekhtiev A.SH., Guseynov K.K., Ghyulmamedov R.H.; Azerbaijan National Aerospace Agency (Azerbaijan)

- R-4 Determination of Land Use Change Categories Using Classification of Multitemporal Satellite Image Data
Kyu-Sung Lee and Mi-Reyoung Joung ; Inha University (Korea)
- R-5 The Study on Multi Sensors Observing for Ground Truth using Vehicle
Hirokazu Yamamoto, H.Masubuchi, H. Ooishi, K.Kajiwara and Y. Honda: Chiba Univ. (Japan)
- R-6 The Study of Generating of BRDF Table set for Multi Channel Sensor
Asako Konda, M. Yokota , T. Nishijima, K.Kajiwara and Y. Honda: Chiba Univ. (Japan)
- R-7 Application of GKSIM Model for Estimating the Changes of Land Use and Land Cover
Takashi Hoshi*, Satoshi Hoshino**, Ichirou Nomura*; *Ibaraki Univ., **Okayama Univ. (Japan)
- R-8 Spatial Model for Habitats Conservation
Koichi Hirata* and Hiroshi Murakami**; *PASCO CORPORATION, **GSI (Japan)
- R-9 The Variation of Viewshed Analysis Result Caused by Different
Chuo-Pin Cheng and Tian-Yuan Shih: National Chiao-Tung Univ. (China Taipei)
- R-10 A Comparative Study of Four Modified Histogram Equalization Algorithms for Remotely Sensed Imagery
Wei-Yung Chen and Tian-Yuan Shih: National Chiao-Tung Univ. (China Taipei)
- R-11 On the Entropy Analysis of Grayscale Images
Chia-Sheng Hsieh and Tian-Yuan Shih: National Chiao-Tung Univ. (China Taipei)
- R-12 Differences in Observation of Indonesian Fire by DMSP-OLS and NOAA-AVHRR
Mikiyasu Nakayama and Masayasu Maki; Utsunomiya University (Japan)
- R-13 Automated Extraction of Shorelines from Optical and SAR Images
Liang-Chien Chen and Chi-Chung Hsu ; National Central University (China Taipei)
- R-14 An Improvement of Geometric Correction of Satellite Image
Sompong Wisetphanichkij*, C. Pienvijarnpong*, K. Dejhan**, F. Cheevasuvit**, S.Mitatha**, S.Hanpipatpongsa**, C. Soonyeekean***; *NRCT, **King Mongkut's Inst.of Technology, ***Kasem Bundit Univ. (Thailand)
- R-15 Density and Temperature profile in the Lower Atmosphere at Kmitl, Thailand
Somkiat Lerkvarany, K. Dejhan, F. Cheevasuvit; King Mongkut's Inst.of Technology (Thailand)
- R-16 Moving Average Method for Time Series Lidar Data
Somkiat Lerkvarany, K. Dejhan, F. Cheevasuvit; King Mongkut's Inst.of Technology (Thailand)
- R-17 Multi-model Histogram Linear Contrast Stretching for Image Enhancement
K. Wongsritong, K. Dejhan, F. Cheevasuvit; King Mongkut's Inst.of Technology (Thailand)
- R-18 Principle Component Analysis Image for Multi-Resolution Image
N. Hinsamooth*, F. Cheevasuvit*, K. Dejhan*, S.Mitatha* and Chitwong*, A. Somboonkaew** and S.Phasomkusolsil* ; King Monkut's Inst.of Technology, ** Nat. Electronics and Computer Tech. Center (Thailand)
- R-19 The Study on Effect of Land Types Based on Vegetation Activity to Day/Night Brightness Temperature Data Derived from NOAA AVHRR 1.1 km Data
Surat Lertlum , Shunji Murai , Kiyoshi Honda ; AIT (Thailand)
- R-20 Coregistration and Phase Coherence: First Steps towards Complete SAR Interferometry and an Examination of suitability for Land Cover Identification in Thailand.
Jirathana Worawattanamateekul; AIT (Thailand)
- R-21 A Spectral Transformation Technique for Generating SPOT Natural Color Image"
Chi-Farn Chen; National Central University (China Taipei)

12:30-13:30 Lunch

13:30-16:30 Technical Visit

19:00-21:30 General Conference (2) (Only for the national delegates from AARS members)

November 19, Thursday 1998

8:30-11:00 Room A: Session I Digital Image Processing

Chairperson; Mr. Armando Apan (Philippines)

- I-1 Quality Analysis of Synthesized High-Resolution Multispectral Imagery
Yang-cheng Liao and Tengh-yih Wang ; Cheng Kung University (China Taipei)
- I-2 to be selected from Philippines
- I-3 Incorporating cluster information into multispectral image edge detection
Uthai Sangthongpraow and Yuttapong Rangsanteri; King Mongkut's Institute of Technology (Thailand)
- I-4 A Fusion Approach of Multi-sensor Remote Sensing Data Based on Wavelet Transform
He Guojin, Li Kelu and Hu Deyong; China Remote Sensing Satellite Ground Station (China)
- I-5 Change Information Visualization using Fuzzy Logic
Parviz Zeaiean Firouzabadi*, S.Ramachandran**, * Ministry of Agriculture, **AnnaUniversity (India)
- I-6 to be selected from Philippines
- I-7 Spectral Feature Extraction for Hyper Spectral Image Classification
Pei-Hui Hsu, Yi-Hsing Tseng; National Cheng Kung University (China Taipei)
- I-8 Adaptive Vector Quantization Coding on Wavelet Information for Data Compression
K. Kittayarusiriwat*, F. Cheevasuvit*, A. Somboonkaew*, K. Dejhan*, S.Mitatha* and S. Wongkham**, *King Mongkut's Inst.of Technology, **Mahanakorn Univ.of Tech. (Thailand)
- I-9 Multi Resolution Fuzzy Clustering for SAR Image Segmentation
Yuttapong Rangsanteri; King Mongkut Institute of Technology (Thailand)

November 19 , Thursday 1998

8:30-11:00 Room B: Session J Geology/Geomorphology

Chairperson; Dr. Ricarte Javelosa (Philippines)

- J-1 Volcanic Geomorphic hazards research in Southeast Asia
Jan J. Nossin ; ITC (Netherlands)
- J-2 to be selected from Philippines
- J-3 Gold Exploration in North-East of Golpaygan Area using Landsat TM Data
S.M.Tabatabaei, M. Sharifiand , M.A. GhaziFard, R. Hadadati; University of Isfahan (Iran)
- J-4 Shoreline Change Detection Using Topsar/AIRSAR Data
Maged Marghany and Shattri Mansor ; Univ. Putra Malaysia (Malaysia)
- J-5 41 not find title (I had request to author)
F. Khairi & P. Izadpanah; Geological Survey of Iran (Iran)
- J-6 to be selected from Philippines
- J-7 Processing of Landsat TM Digital Data for Sand Dunes Source Studies in Central Iran
R. Aialloeian, H.R. Pakzad and M.A. Mackizedeh; University of Isfahan (Iran)
- J-8 The Environmental Monitoring for Mt. Pinatubo Area in the Philippines using Satellite Optical and SAR Data
Genya Saito*, N. Mino*, S.Ogawa*, T.Murakami*, N.Isitsuka*, Min Cong*, M.M.Dumayac**, A.M.Evangelista*** and H.Ohkura****; *Nat. Inst. of Agro- Environmental Science, **NAMRIA , ***Bureau of Soil & Water Management, ****NRIES (Japan)

11:00-12:30 Session R : Poster Session

- R-1 Automatic Detecting Rice Fields by Using Multitemporal Satellite Images, Land-parcel Data and Domain Knowledge
Yi-Hsing Tseng, Pei-Hui Hsu and Yi-Huang Chen; National Cheng Kung University (China Taipei)
- R-2 Study on The Update and Application of DTM for Violent Hillslope Land Development
Hsin-Hsing Cheng*, Kai-Huei Lin**, Wen-Fu Chen* ; *National Chung-Hsing Univ. , **Hitrontech.inc (China Taipei)
- R-3 Monitoring of Forest Fires and Oil Pollution from Space
Soo Chin Liew, Leong Keong Kwoh, Oo Kaw Lim, Jingxuan Lu, Karunakaran Padmanabhan and Hock Lim ; National University of Singapore (Singapore)

November 20 , Friday 1998

9:00-11:30 Room A: Session K GIS

Chairperson; Dr. Linda SD. Papa (Philippines)

- K-1 Monitoring and Analysis of Deforestation Process Using satellite Imagery and GIS
Ko Ko Lwin and Ryosuke Shibasaki ; University of Tokyo (Myanmar)
- K-2 to be selected from Philippines
- K-3 Application of Remote Sensing and GIS for Road Network Database Management
Manzul Kumar Hazarika, Lal Samarakoon and Kiyoshi Honda; AIT (Thailand)
- K-4 Recreation Zoning Management at Taroko National Park using Self-Developed Spatial Information System
Mu-Lin Wu; Nat. Pingtung Univ. of Science & Technology (China Taipei)
- K-5 Development of an Image Database System for Location-specific based, Multi-sensor, Multi-source data Query
Takahiro Endo, Ryosuke Shibasaki ; Univ. of Tokyo (Japan)
- K-6 to be selected from Philippines
- K-7 Identification and Prediction of Dip Slopes by API and GIS approach
Jin-King Liu; Industrial Technology Research Institute (China Taipei)
- K-8 Application of Satellite Imagery and GIS to Wildlife Habitat Suitability Mapping
C. Mongkolsawat and P. Thirangoon ; Khon kaen University (Thailand)
- K-9 A Study on Design of National Spatial Data Infrastructure (NSDI)
Tsuneki Sakakibara and Ryosuke Shibasaki; Univ. of Tokyo (Japan)

November 20 , Friday 1998

9:00-11:30 Room B: Session L Regional/Global Environment

Chairperson; Dr. Flaviana Hilario (Philippines)

- L-1 Multi-parametric Analysis of an El Nino Event using Satellite Derived SST,SSH and Wind Field Measurements
Kang Sung Chul, Robert Schumann, Shunji Murai and Kiyoshi Honda; AIT (Thailand)
- L-2 to be selected from Philippines
- L-3 Land Cover Classification of Asia Region Using NOAA AVHRR 1-KM Dataset
Cheng-Gang Wen & Ryutaro Tateishi; Chiba Univ. (China)
- L-4 ERS Windscatterometer: Operational use for Monitoring Global Deserts
Haroon Stephen, Robert Schumann; AIT (Thailand)
- L-5 Differentiation of Wetland Areas in West Siberian Lowland using NOAA/AVHRR Imagery
Masayuki Tamura*, H. Shimazaki*, M. Tomosada*, F. Makita*, Zhao Wenjing* and Y. Yasuoka**;National Institute for Environmental Studies, Univ. of Tokyo (Japan)
- L-6 to be selected from Philippines
- L-7 An Application of Remote Sensing and GIS for Hydrological Modeling in Continental Scale
Ai Nakagawa, Ryosuke Shibasaki and Shiro Ochi ; University of Tokyo (Japan)
- L-8 Construction of Vegetation Cover Map in Metro Manila for Urban Environmental Evaluation
Donkyu Yun, Akira Hoyano, Tsuneo Matsunaga and Takao Katoh; Tokyo Institute of Technology (Korea)
- L-9 Spatial Database Development for Green House Gas Emission Estimation using Remote Sensing and GIS
Lilik Budi Prasetyo*, G. Saito**, K.Okamoto**, H.Tsuruta*, S. Ishizuka***, S. Ueda****, U Rosalina**** D.Murdiyarso***** and A. Widayati****; *Bogor Agruculture Univ., **Nat. Inst. of Agro-Environmental Science, ***Forestry & Forest Product Inst(Japan), ****Nat. Inst. for Resources &Environment(Japan), *****South East Asia Impact Center (Indonesia)

11:30-12:30 Closing Ceremony

pending

Construction of A Global Map Around Mindanao, Philippines"

Jose Edgardol. ABAN; Philippine Council for Advanced Science and Technology (Philippines)