Factors of Uncertainty in Monitoring Forest Succession Using Multitemporal Landsat Data
Conghe Song, University of North Carolina at Chapel Hill

Remote Sensing Temporal Change In Urban Biomass
Soojeong Myeong, State University of New York
Michael Duggin; Paul F. Hopkins, and David Nowak

Mapping Geomorphic Change with Multi-date, Multivector ALSM in Steep, Mountainous Terrain
Kelly Crowell, Los Alamos National Laboratory
Cathy Wilson, H. Evan Canfield, J. William Carey, and Jared E. Lyman

Multi-Temporal Analysis of Land Cover on the Mongolian Plateau
Stephen H. Boles, University of New Hampshire
Xiangming Xiao, Qingyuan Zhang, Sharav Munkhtuya, and Jiyuan Liu

Hyperion and IKONOS Images in African Rainforest Characterization
Prasad S. Thenkabail, Yale University
Eden Enclona and Mark S. Ashton

The Impact of Corn Leaf Optical Properties on Image Tone
Charles L. Walthall, USDA-ARS Hydro & Remote Sensing Lab
Craig Daughtry and John Norman

Littoral Characterization of Willapa Bay Using Multispectral/Multithermal Imagery and Lidar Data
Karen Steinmaus, Pacific Northwest National Lab.
Lyle Hibler and Lee Miller

Semi-automatic Building Extraction from High-resolution Satellite Imagery
Hong Gab Kim, Soo Jeong, and KyungOk Kim

Increased Classification Accuracy of Forest Cover Types Using High Spatial Resolution Multispectral Data
Sean O’Melveny, Stephen F. Austin State University
Daniel Unger

Utilizing ASTER Band-ratios for Geological Mapping in the Neoproterozoic Allaqi-Heiani Suture, Southeastern Egypt
Dianwei Ren
Mohamed Abdelsalam

Snow and Ice Products from the Moderate Resolution Imaging Spectroradiometer
Dorothy K. Hall, NASA/Goddard Space Flight Center
Vincent V. Salomonson, George A. Riggs, and Andrew G. Klein

Remote Sensing for Comparative Resources Analysis Over Two Contrasting Study Regions
J. K. Mishra, Indira Gandhi National University, India
O. P. Sharma and T. Akatsuka

Strategic Urban Forests Assessment: Baltimore, Maryland
Frederick M. Irani, Maryland Dept. of Natural Res.

Characterizing the Great Valley of California Using Pan-sharpened Landsat 7 Imagery
Evelyn Torres, Humboldt State University
Lawrence Fox III

Subpixel Analysis of Urban Land Cover from TM Imagery
Ming-Chih Hung, University of Utah,

Integration of Multispectral Satellite Imagery and Census Data for Estimation of Urban Population Densities
James B. Holt, U.S. Center for Dis. Control & Prevention C. P. Lo

Efficient Despeckling Method on SAR Images
Kwang-Yong Kim, Republic of Korea
Soo Jeong and Kyung-Ok Kim

The Alaska DEM Project: Development of Software Tools for Generating Digital Elevation Models from SAR Interferometric Data
Rick Guritz, Alaska SAR Facility
Rüdiger Gens, Chris Wyatt, and Joanne Groves

Automatic Object Extraction and Reconstruction in Lidar Data
Yoonseok Jwa, Inha University, Rep. of Korea
Woosug Cho

Development of an Immersive Virtual Forest System Based on Lidar Data
Ikuko Fujisaki, Mississippi State University
Robert J. Moorhead, David L. Evans, Scott D. Roberts, Derek W. Irby, Tao Wang, and Jean Mohammadi-Aragh

Comparison of Building Extraction Algorithms Using Lidar Data
Hwijeong Chang, Inha University, Rep. of Korea
Woosug Cho

Lidar Processing for Civil Works Applications
Carlton Daniel, U.S. Army Topographic Eng. Center

Automatic Building Reconstruction Using Lidar and Aerial Image
Youngjin Lee, Inha University, Rep. of Korea
Woosug Cho

Using Ladsat ETM+ Data to Discriminate Volcanic Rocks Around El’gygytgyn Crater, Siberia
Cynthia G. Peters, University of Alaska – Fairbanks
Virgil L. Sharpton
Remote Sensing of Invasive Plants in Southeastern Idaho
Nancy Glenn, Idaho State University
Jacob Mundt

Using Hyperspectral Imagery for Ocean Process Studies in Monterey Bay, California
Andrew M. Fischer, Cornell University
John P. Ryan

Using Remote Sensing, GIS, and Yield Mapping Systems to Access the Impact of Canada Geese on Crops
Mounir Louhaichi, Oregon State University
Douglas E. Johnson and Michael M. Borman

VegMeasure: A C++ Computer Program for Field Measurement of Vegetative Cover
Douglas E. Johnson, Oregon State University
Mounir Louhaichi, Mark Vulfson, and Norman R. Harris

Wildlife Migration Monitoring in East Africa Using GIS and Remote Sensing
Sanga-Ngoie Kazadi, Mie University, Japan
Douglas E. Musiega

A Regional Perspective of Louisiana Coastal March Dieback Using Landsat 7 ETM+ Imagery
Andrew Beall, University of New Orleans
Amber I.T. Sigurdson and Shea Penland

Application of Satellite Images to the Conservation of Aggregate Resources in California
Chris T. Higgins, California Geological Survey
Lawrence Busch and Milton Fonseca

Using TIR Remote Sensing to Classify Sources of Thermal Variation in the Umatilla River, Oregon
Scott O’Daniel, Confederated Tribes of the Umatilla Indian Res.
Geoffrey Poole

The Alaska Exotic Plant Information Clearinghouse and Mapping Project
Michael Shephard and Page Spencer

Characterization of Classified Surface Water Using Geometric Ratoing
Stacey Shankle, Ducks Unlimited
Jerry Holden

Early Detection of White Grub Injury in Turfgrass Using Imagery and Field Spectrometer Data
Randi M. Hamilton, Purdue University
Christian J. Johannsen, Rick E. Foster, and Timothy J. Gibb

An Evaluation of High Resolution Imagery for Land Cover Classification in a Coastal Environment
Chris Robinson, NOAA Coastal Service Center
Bill Stevenson, Mark Finkbeiner, and Renee Seaman

Upper Paraguay River Basin GIS Database - A Tri-national Solution
Dawn Browne, Ducks Unlimited
Montserrat Carbonell and Dick Kempka

Topological Relationships for 3-dimensional Spatial Features
Sung Soo Kim, Kyung Ho Kim, and Kyoung-Ok Kim

Mapping All-terrain Vehicle Trails in Alaska Using Rectified Aerial Photos and GPS
Joel Cusick, National Park Service - Alaska Support Office

Development of GIS Application System for Efficient Dam Management Support
Lee Geun-Sang, Chonbuk National Univ, Republic of Korea
Lim Seung-Hyeon, Choi Yun-Woong, and Park Sung-Kyu

GeoVideo: A First Step to Media GIS
Sung-Soo Kim, Sung-Ho Lee, Kyoung-Ok Kim, and Jong-Hun Lee

GIS as a Tool for Oil Spill Response: Example Maps from the SS Jacob Luckenbach Oil Spill Incident
Judd M uskat, California Dept. of Fish and Game
Mark Lampinen and Randy Imai

Modeling An XML-Driven Feature Scheme in GIS Application
Do-Hyun Kim, Spatial & Imaging Information Technology Center, ETRI-CSTL, Rep. of Korea
M in-Soo Kim

4S Mobile Framework Using Open GIS Standards
BYoung-Woo Oh, Spatial & Imaging Information Technology Center, ETRI-CSTL, Rep. of Korea
Mi-jeong Kim, Eun-Kyu Lee, and M in-Soo Kim

The Atlas of Antarctic Research: Status and Plans
Cheryl A. Hallam, U.S. Geological Survey

The Study of Strategies for Acquisition of Moving Object Location
Min Kyoung Wook, Rep. of Korea

Distributed Location Storage Component
InSung Jang, Rep. of Korea

City of Nacogdoches, Texas Internet Map Serving
Tred Riggs, HUES GIS Laboratory
Darrel L. McDonald and Daniel R. Unger

Automated Littoral Feature Extraction Using Neural Network Techniques
Karen Steinmaus, Pacific Northwest National Laboratory
Whitney Hansen, Peter Gross, and Mike O’Brien

Thursday, May 8th
8:00 am to 4:45 pm
Full Frame DCT-based Digital Watermarking for Copyright Protection of Remote Sensing Images
Punya Thitimajshima, King Mongkut’s Institute of Technology Ladkrabang, Thailand
Mana Ladthawanidphan and Yuttapong Rangsanseri

Land-use/Land-cover Classification Using GIS and Landsat/ TM Data
Prof. Sanga-Ngoie Kazadi, Mie University, Japan
Shoko Kobayashi

A Study on the Improvement of Rational Function Model Using the Ground Control Points
Joohyum Kim, Inha University, Rep. of Korea
Woosug Cho

Development of Integration System of Digital Photogrammetry and CAD for the Data-reconstruction of Buildings
Bae Sang-Ho, Daelim College, Rep. of Korea
Joo Young-Eun and Kang Joon-Mook

Epipolar Image Generation Using Fundamental Matrix
Jinhyeong Bark, Inha University, Rep. of Korea
Woosug Cho

Flood in North Part of Iran, Golestan Province, 10-11 August 2001
Farahnaz Fazel Rastgar, Meteorology, Iran
Khodadad Bastani

Feasibility of Remote Sensing for Tornado Disaster Response and Recovery
Timothy Olsen, Univ. of Wisconsin Envir. Remote Sensing Center

Accessing Data from The National Map
Chris Rusanowski, USGS - EROS Data Center

Design of an Application Service Provider Platform for Location-based Advertising
Jaejun Yoo, ETRI-Computer & Software, Republic of Korea
Hea-Ok Choi, Jong-Hun Lee, and Deokgi Park

Design of a Reference System for LBS Platform
Jaejun Yoo, ETRI-Computer & Software, Republic of Korea
Hea-Ok Choi, Jong-Hun Lee, and Cheol-woo Kim

Satellite Images Applied to Geologic, Landscape and Management Risk Map of the Maipu Dept., Chaco Province, Northeastern Region of Argentina
Roberto Torra, UNNE-UNLP, Argentina
Jorge M. Sisti and Wualter G. Murisengo

GPS Accuracy Assessment
Daniel Unger, Stephen F. Austin State University
Sean O’M elveny

Construction of Realtime DGPS System Via Internet
Joon-Mook Kang, Chungnam National University, Rep. of Korea
Eun-Soo Lee, Sung-Ho Cho, and Jae-Hyun Sun

Mountain Pine Beetle Attack Detection Using a Landsat-based Methodology in an Operational Pilot Project
R. Sharma, University of British Columbia, Canada
P.A. Murtha, J. Alexander, G. Dagenais, and T. Mitchell

Dynamic Shortest Path Algorithm Application on Urban Transportation Network
Yi-Hwa Wu, University of Utah
Ming-Chih Hung

Are All Slopes Created Equal?
Robert C. Weih, Jr., University of Arkansas - Monticello
Tabitha Mattson

Color Image Enhancement Based on Local Area Histogram Equalization
Sakreya Chitwong, King Mongkut’s Institute of Technology Ladkrabang, Thailand
Fusak Cheevassuvit and Satit Intajag

Simulated Normal Color Image from a DOQQ CIR Image
Gayla Malson, Southwest Texas University
J. Ronald Eyton

Azimuthal High-pass Filtering
David Viertel, Southwest Texas University
J. Ronald Eyton

Implementation of the Grid Coverage Allowing for Efficient and Fast Access to Very Large Datasets in a Pipelined Manner
Kyung Ok Kim

Robust Fuzzy Morphological Processing to Ensure Arbitrary Geometric Transformation for Spatial Imagery
KwangYong Kim, HongGab Kim, and KyungOk Kim

Detecting Micro-features Using High Resolution Interferometric Synthetic Aperture Radar (IFSAR)
Verner Guthrie, U.S. Army Engineer Research & Development Center, Topographic Engineering Center
Edmundo Simental

SPAREF-II: A Clustering Algorithm for Satellite Imagery
Thanh N. Tran, University of Nijmegen, Netherlands
Ron Wehrens and Lutgarde M.C. Buydens

Coal Mine Fire Investigation and Management: A Novel Operational Application of Remote Sensing & GIS Technology
Anupma Prakash, University of Alaska - Fairbanks

Toward a Projection-free GIS Architecture
Jeong Chang Seong, Northern Michigan University

Applying GIS and Aerial Photointerpretation to Analyze Landscape Change: Dove Spring Canyon, Mojave Desert, California
Amy M. Mathie, USGS
Leila Gass

Land Use and Land Cover Characterization of Inaccessible Sites in the Colombian Amazon
Joseph P. Messina, Michigan State University
Paul L. Delamater

ArcGIS as a Photogrammetric Planning, Review and Inventory Tool
Ron Frederiks, New York State Dept. of Transportation
Yield Estimation for Wheat: A Comparison of a Yield Monitor, Aerial Imagery, and Satellite Imagery
Dennis L. Wright, Utah State University
V. Philip Rasmussen, R. Douglas Ramsey, and Doran J. Baker

Field Verification of Sensitivity of Low Forest Cover Mapped Using Satellite Data
Donald Ohlen. USGS/EROS Data Center
Michelle Knuppe, Chengquan Huang, and Zhiliang Zhu

Analysis of Resolution and Resampling on GIS Data Values
E. Lynn Usery, USGS
Michael P. Finn

A View to the Past: Using Historical Aerial Photographs for Planning and Prioritizing Riparian Restoration Along the Lower Mokelumne River, San Joaquin County, California
Brook R. Edwards, Humboldt State University
Steven J. Steinberg and Kent A. Reeves

The Geomorphometric Signature of Valles Marineris From M.O.L.A. D.E.M.
George Ch. Miliareis, Tech. Inst. of Athens, Greece
Nikolaos Ant. Kokkas

Supporting the City of Seattle’s Cedar River Watershed Habitat Conservation Plan with Remotely-sensed Data
Duncan C. Munro, Seattle Public Utilities

Multiscale Remote Sensing Analysis for Vegetation Monitoring in Kruger National Park, South Africa
Paul Aplin, University of Nottingham, Great Britain

A Comparison of Spectral and Spatial Characteristics of Landsat 7 ETM + to Terra ASTER Imagery
Paula Smit, L-3 Com. Analytics Corp., USGS/EROS
Bhaskar Ramachandran and Zheng Zhang

Developing an Image-based GIS Database and Associated Base Maps for the Rendille Land in Northern Kenya
Akira Hirano, University of Tsukuba, Japan

Integrating Remote Sensing, Terrain Analysis, and Geostatistics for Mosquito Surveillance and Control
Thomas R. Allen, Old Dominion University
David Wong, George Lu, and John Neely

Sub-pixel Aircraft Detection from Hyperspectral Data of Naval Air Station
Peg Shipport, Research Systems, Inc.

Remote Sensing-based Geostatistical Estimation of Leaf Area Index in the Yellowstone Coniferous Forest
Ludmila Monika Moskal, KARS Program Univ. of Kansas
M. J. Jakubauskas, K. P. Price, and E. A. Martinko

Historic Yellowstone Imagery Processed with DIME Software
Liz Galli-Noble, Positive Systems
Todd Twete

Automatic Extraction of Digital Terrain Models and Road Networks Using Multiple Returns Lidar Data
Yong Hu, York University, Canada
C. Vincent Tao

Semi-automatic Extraction of Road Centerlines and Building Boundaries from High Resolution Satellite Images
Taejung Kim, STRC, Korea Advanced Institute of Science & Technology, Rep. of Korea
Seung-Ran Park

Feature Extraction with the VLS Feature Analyst System
Michael A. O’Brien, NIMA
John M. Irvine, Stuart Blundell, and David Opitz

Performance Evaluation of the GENIE System
John M. Irvine, SAIC

Water Quality Monitoring Using Remote Sensing Technique
Suwannee Adsavakulchai, King Mongkut’s University of Technology Thonburi, Thailand
Pawenea Panichayapichet

Fuzzy Clustering with Automatic Determination of the Number of Clusters
Yuttapong Rangsanseris, King Mongkut’s Institute of Technology Ladkrabang, Thailand
Punya Thitimajshima and Jirasak Sittigorn

Evaluation of High Spatial Resolution Geo-spatial Data Techniques for Delineating Land Cover and Fish Habitat Features at East Texas Reservoirs
James Parks, Texas Parks & Wildlife Inland Fisheries Div.
Daniel R. Unger and Darrel L. McDonald

Measurement of Impervious Surfaces for Stormwater Management Applications Using Digital Aerial Imagery, Topographic Lidar, and Lidar Intensity Returns
Jason A. Tullis, University of South Carolina
John R. Jensen, Kevin D. Riordan, George T. Raber, Angela M. Browne, Jeanine Backman, Brian M. McKay, and Daniel R. Morgan
Landscape Pattern Analysis from IKONOS Image Data by Wavelet and Semivariogram Method
Sun Danfeng, China

Combining High-resolution Commercial Imagery with Local Data for Practical Applications
Patrick Bresnahan, Richland County, South Carolina
Jeff Liedtke and Michael Wright

Incorporating GLOBE Data into a Remotely Sensed Change Detection Analysis of Androscoggin County, Maine
David K. West, University of New Hampshire
Russel G. Congalton

Assessing the Burn Severity of Wildland Fire in Alaska’s National Parks
Brian Sorbel, National Park Service

NOAA C-CAP, Great Lakes: A Change Detection Approach to Updating Land Cover
Michael A. Villarreal and Shan Burkhalter

Assessing Development Patterns, Formative Factors, and Ecological Consequences of Land-use and Land-cover Changes in the State of Rhode Island
Alyssa B. Novak, University of Rhode Island
Y.Q. Wang

Estimating Mangrove Conversion and Aquaculture Development in the Red River Delta, Vietnam, Using Landsat TM
Karen C. Seto, Stanford University
J. Michael Beman

Integration of Remote Sensing and GIS to Evaluate Changes in the Mississippi Coast and Mississippi Sound
Erika C. Cohen, University of Mississippi
Greg Eason

Design Concept and Status of the Digital Mapping Camera
Gert Ferrano, Z/I Imaging Corporation

Implementing Geographic Information System (GIS) in Nigeria
David Udoma-Michaels, Discovery GIS Services, Nigeria

Monitoring Land Cover Change in California Using Multitemporal Landsat TM and Ancillary Data
John Rogan, San Diego State University
Jennifer Miller, Doug Stow, Janet Franklin, Lisa Levien, and Chris Fischer

Mapping the Railroad Network with Terrestrial and Aerial Images
Guangping He, Lambda Tech International, Inc.

Effects of Lidar Post-spacing and DEM Cell Size on Slope Estimation for Hydrologic Modeling
T. Edwin Chow, University of South Carolina
Michael E. Hodgson

Effects of Topography and Storm Events on Biological Structure Mapped Using Airborne Remote Sensing
Evelyn Brown, Univ. of Alaska – Fairbanks, Inst. of Marine Science
Martin Montes, James Churnside, Chris Wilson, and Anne Hollowed

What is Under Those Trees? Application of Lidar Scan Angle and Intensity for Ground Characterization in Forested Areas
Kevin Riordan, University of South Carolina

Characterizing Vertical Forest Structure Using Small-footprint Multi-return Airborne Lidar
Daniel A. Zimble, ESRI
David L. Evans, Robert C. Parker, and George Carlson

Comparison of Lidar and INSAR DEMs with Dense Ground Control
Robert A. Norheim, Univ. of Washington, College of Forest Res.

An Exploration into Using Lidar Intensity Measurements for Improving the Estimates of Forest Biophysical Parameters
Sorin C. Popescu, Dept. of Forestry, Virginia
Randolph H. Wynne

A Robust Method for Interactive Extraction of Road Centerlines from Spatial Imagery
Xiayun, York University, Canada
C. Vincent Tao

Laser Scanning Technology for Three Dimensional (3D) Modeling of Heritage Sites
Zulkepli Majid, University of Technology, Malaysia
Anuar Ahmad, Halim Setan, and Albert Chong

Road Linking Using Fuzzy Reasoning From Satellite Images
Lili Yun, Kumamoto University, Japan
Keiichi Uchimura

Rendering Realistic Pine Trees from Lidar Data in a Virtual Forest
Robert Moorhead, Mississippi State University
Derek W. Irby, Mahnas Jean Mohammadi-Aragh, Tao Wang, David L. Evans, Scott D. Roberts, and Ikuko Fujisaki

Exploration of Satellite-measured Vegetation Seasonality for LANDFIRE Land Cover Classification
James E. Vogelmann, USGS/EROS Data Center
Zhi-liang Zhu, Brian Tolk, and Chengquan Huang

Neural Network Base Junction Extraction and Description
Arpad Barsi, Budapest University of Technology, Hungary

Structural Synthesis of Road Fragments and Centerline Detection from Segmented Aerial Imagery
Lakshman Prasad, Los Alamos National Laboratory
Alexei N. Skourikhine and Steven P. Brumby