OBJECT-SPECIFIC FEATURE EXTRACTION VIA MARKOV RANDOM FIELDS DERIVED FROM 0TH-ORDER SIGMA-TREE SEGMENTATIONS

Syed Irteza Ali Khan and Christopher F. Barnes

ACCURACY ASSESSMENT OF BURNED AREA PRODUCTS IN THE ORINOCO BASIN

Jesús Anaya and Emilio Chuvieco

LIDAR-DERIVED SOIL COMPACTION USING DEPLOYABLE PROBES AND SHORT-WAVE IR RETRO-REFLECTORS

John Anderson, Richard Massaro, Jarrod Edwards, Kevin Slocum and Dave Kalin

RIDGE BASED DECOMPOSITION OF COMPLEX BUILDINGS FOR 3D MODEL GENERATION FROM HIGH RESOLUTION DIGITAL SURFACE MODELS

Hossein Arefi, Peter Reinartz and Michael Hahn

AN INTELLIGENT GUIDE FOR CLOSE RANGE PHOTOGRAMMETRY

Mattieu Bach and Sylvie Daniel

TERRESTRIAL LASER SCANNING IN ENGINEERING SURVEY: ANALYSIS AND APPLICATION EXAMPLES

Attila Berényi, Tamas Lovas and Arpad Barsi

IMPROVING CLASSIFICATION ACCURACY OF SPECTRALLY SIMILAR URBAN CLASSES BY USING OBJECT-ORIENTED CLASSIFICATION TECHNIQUES: A CASE STUDY OF NEW YORK CITY

Sunil Bhaskaran

USING THE ORTHOGONAL PROJECTION FOR PARAMETER INITIALIZATION IN THE 3D RECONSTRUCTION OF DISTANT OBJECTS

Keith Blonquist and Robert T. Pack

MICRO-TERRAIN FEATURE EXTRACTION FROM NUMERICAL ANALYSIS OF GRIDDED LIDAR DATA

S. Bruce Blundell and Randy Swanson

A SIMPLE AND ROBUST DESTRIPING ALGORITHM FOR IMAGING SPECTROMETERS: APPLICATION TO MODIS DATA

Marouan Bouali

HIERARCHICAL QUALITY INSPECTION OF SPATIAL DATA BY DATA INTEGRATION
Hainan Chen and Walter Volker

CLASSIFYING THE LAND COVER OF MEXICO IN THE FRAMEWORK OF THE NORTH AMERICAN LAND CHANGE MONITORING SYSTEM

René R. Colditz, Pedro Maeda, Gerardo López, Isabel Cruz and Rainer Ressl

COMPARATIVE ANALYSIS OF ALTERNATIVE IN-DOOR CALIBRATION TECHNIQUES FOR OFF-THE-SHELF DIGITAL CAMERAS

Ivan Detchev, Axel Ebeling and Ayman F. Habib

IDENTIFYING SENSITIVITY THRESHOLDS IN ENVIRONMENTAL MODELS: WHEN DOES A MODEL BECOME INSENSITIVE TO CHANGE?

Mark H. DeVisser

GIS-BASED WEB SERVICE FOR STUDYING EARTHQUAKES USING OPEN SOURCE TOOLS

Asli Dogru, Gonul Toz and Haluk Ozener

WORLDVIEW-1 STEREO EXTRACTION ACCURACY WITH AND WITHOUT MIN PROCESSING

John T. Dolloff and Reuben Settergren

RADIOMETRIC PROCESSING OF ADS IMAGERY: USING ATMOSPHERIC AND BRDF CORRECTIONS IN PRODUCTION

Michael Downey, Robert Uebbing, Stephan Gehrke and Ulrich Beisl

INFLUENCE OF VIDEO FRAME MISS-SELECTION ON THE ACCURACY OF MOVING OBJECTS 3D MEASUREMENTS USING CLOSE-RANGE PHOTOGRAMMETRY

Mostafa A-B Ebrahim

A FEATURE-BASED MATCHING STRATEGY FOR AUTOMATED 3D MODEL RECONSTRUCTION IN MULTI-IMAGE CLOSE-RANGE PHOTOGRAMMETRY

Clive Fraser, Ida Jazayeri and Simon Cronk

RADIOMETRIC PROCESSING OF ADS IMAGERY: MOSAICKING LARGE IMAGE BLOCKS

Stephan Gehrke

MINERAL EXPLORATION AND ALTERATION ZONE MAPPING IN EASTERN DESERT OF EGYPT USING ASTER DATA

Abduwasit Ghulam, Reda Amer and Timothy M. Kusky

A CORRESPONDENCE-BASED STRATEGY FOR AUTOMATIC REGISTRATION OF TERRESTRIAL LASER SCANNING DATA

Daron Grant, James Bethel and Melba M. Crawford

TEN YEARS LARGE FORMAT DIGITAL AERIAL CAMERAS, A REVIEW
Michael Gruber and Alexander Wiechert

SLOPE, REFLECTANCE, AND VIEWSHEDS ALGORITHMS FOR ARC-SECOND DIGITAL ELEVATION MODELS

Peter Guth

LIDAR SYSTEM CALIBRATION: IMPACT ON PLANE SEGMENTATION AND PHOTOGRAMMETRIC DATA REGISTRATION

Ayman F. Habib, Ki-In Bang and Ana Paula Kersting

PHOTOGRAMMETRIC RECONSTRUCTION USING A MFDC: SYSTEM CALIBRATION PERSPECTIVE

Ayman F. Habib, Ana Paula Kersting, Changjae Kim, Eunju Kwak and Yousif Alghamdi

THE EMERGENCE AND SPREAD OF TICK-BORNE ENCEPHALITIS (TBE) IN SCANDINAVIA

Ola Hall, Helena Eriksson, Peter Nolskog and Tomas Bergström

COORDINATION OF PUBLIC POLICIES FOR FLOOD PROTECTION USING REMOTE SENSING AND GIS TECHNOLOGIES FOR COASTAL URBAN LANDSCAPES AT WATER TERRITORIES

John Hatzopoulos, Athina Santorinaiou and Dimitra Gitakou

SUSTAINABLE MANAGEMENT OF INSULAR ENVIRONMENT USING GIS AND REMOTE SENSING TECHNOLOGIES

John Hatzopoulos and Christina Efthimiou

THE DEVELOPMENT OF A SALT MARSH MIGRATION TOOL AND ITS APPLICATION IN LONG ISLAND SOUND

Mark Hoover, Daniel L. Civco and Adam Whelchel

INTEGRATING ENHANCED GRACE TERRESTRIAL WATER STORAGE DATA INTO THE U.S. AND NORTH AMERICAN DROUGHT MONITORS

Rasmus Houborg and Matthew Rodell

COMBINING OBSERVATIONS IN THE REFLECTIVE SOLAR AND THERMAL DOMAINS FOR IMPROVED CARBON AND ENERGY FLUX ESTIMATION

Rasmus Houborg, Martha C. Anderson and William P. Kustas

DETECTING THE TOPOGRAPHIC CHANGES OF SPATIAL FEATURES FROM SAR SATELLITE IMAGES BASED ON THE MULTILAYER LEVEL SET APPROACH

Yishuo Huang and Shang-Yuh Lin

GIS DATABASE DESIGN FOR APEX MODEL

Ming-Chih Hung, R. Paul Duckworth, Yi-Hwa Wu and Jamie Patton

ASSESSING FOREST FRAGMENTATION IN CONNECTICUT USING MULTI-TEMPORAL
LAND COVER

James Hurd and Daniel L. Civco

PRECISION PROCESSING OF HIRISE STEREO ORBITAL IMAGES FOR TOPOGRAPIC MAPPING ON MARS

Juwon Hwangbo, Yunhang Chen and Rongxing Li

ANALYZING SCENE GEOMETRIES FOR STEREO PUSHBROOM IMAGERY

Michal Jama, Chris Lewis and Dale Schinstock

STABILITY AND SCALABILITY ASSESSMENT OF COMPLEXITY ESTIMATION BASED WORKLOAD BALANCING APPROACH FOR A PARALLEL LIDAR WAVEFORM ECOMPOSITION ALGORITHM

Jinha Jung, Melba M. Crawford and Sanghoon Lee

EFFECT OF FUEL TREATMENTS ON CARBON FLUX DURING A WILDFIRE USING SATELLITE IMAGERY: OKANOGAN-WENATCHEE NATIONAL FOREST

Erin Justice, Brandon Cheung, William Danse, Kyle Myrick, Matthew Willis, Susan Prichard and J. W. Skiles

UNDERSTANDING OF A CLIMATE CHANGE IMPACT ON RAINFED RICE PRODUCTION IN NORTHEASTERN THAILAND

Daroonwan Kamthonkiat and Honda Kiyoshi

ANALYSIS OF FOREST CHANGE IN FIRE DAMAGE AREA USING SATELLITE IMAGES

Joon Mook Kang, Joon Kyu Park and Min Gyu Kim

CONSISTENT COLOR RESAMPLE IN DIGITAL ORTHOPHOTO PRODUCTION

Yaron Katzil and Yerach Doytsher

MULTIPHASE LEVEL SET APPROACH TO LIDAR ROOF SEGMENTATION

KyoHyouk Kim and Jie Shan

LIDAR-BASED SPECIES CLASSIFICATION USING MULTIVARIATE CLUSTER ANALYSIS

Sooyoung Kim

AUTOMATED IMAGE INTERPRETABILITY ASSESSMENT BY EDGE PROFILE ANALYSIS OF NATURAL TARGETS

Taejung Kim, Jae-In Kim, Dongwook Kim and Jaehoon Jeong

PROPOSAL OF 3D GIS FOR SPATIAL DATA VISUALIZATION AND ANALYSIS OVER INTERNET

Chokri Koussa and Mathieu Koehl

ANALYSIS OF HYPERSPECTRAL AND HIGH-RESOLUTION DATA FOR TREE
SPECIES CLASSIFICATION

Petra Krahwinkler and Jürgen Rossmann

DEVELOPMENTS AND CHALLENGES IN BUNDLE TRIANGULATION

Erwin Kruck

TROPICAL CYCLONE INTENSITY ESTIMATION USING NEURAL NETWORKS

Arun Kulkarni, Richard Bankert and Michael Hadjimichael

MONITORING HYDRILLA GROWTH ON LAKE TYLER USING MULTISPECTRAL SATELLITE IMAGES

Arun Kulkarni and Kiran Parimi

LAND USE/LAND COVER MAPPING USING REMOTE SENSING FOR URBAN DEVELOPMENT-A CASE STUDY OF TARKWA AND ITS ENVIRONS

Bernard Kumi-Boateng, C. B. Boye and Issaka Yakubu

MONOLITHIC STITCHING: ONE SENSOR GEOMETRY FOR MULTIPLE SENSOR CAMERAS

Richard Ladstädter, Michael Gruber and Alexander Wiechert

BUILDING POINT GROUPING USING VIEW-GEOMETRY RELATIONS

I-Chieh Lee, Shaojun He, Po-Lun Lai and Alper Yilmaz

OPTIMAL PARAMETER DETERMINATION FOR MEAN-SHIFT SEGMENTATION-BASED SHORELINE EXTRACTION USING LIDAR DATA, AERIAL ORTHOPHOTOS, AND SATELLITE IMAGERY

I-Chieh Lee, Liang Cheng and Ron Li

BAYSIAN IMAGE SHARPENING

Sang-Hoon Lee

GENERATION OF 3D BUILDING MODELS FROM COMMERCIAL IMAGE DATABASE THROUGH SAHDOW ANALYSIS

Taeyoon Lee and Taejung Kim

COMPARISON OF DEEP BLUE AND LAND SURFACE REFLECTANCE IN THE SAN JOAQUIN VALLEY


USING MOBILE LIDAR TO SURVEY A RAILWAY LINE FOR ASSET INVENTORY

Michael Leslar, Gordon Perry and Keith McNease

HUMAN CENTRIC APPROACH TO INHOMOGENEOUS GEOSPATIAL DATA FUSION
AND ACTUALIZATION

Eugene Levin, Alexander Zarnowski, Cheryl A. Cohen and Robert Liimakka

DEVELOPMENT OF A LUNAR ASTRONAUT SPATIAL ORIENTATION AND INFORMATION SYSTEM (LASOIS)

Rongxing Li, Shaojun He, Boris Skopljak, Jinwei Jiang, Pingbo Tang, Alper Yilmaz, Martin Banks and Charles Oman

TOWARDS THE DEVELOPMENT OF A LOW-COST REMOTELY-PILOTED LAND MOBILE MAPPING SYSTEM

Julien Li-Chee-Ming and Costas Armenakis

OPERATIONALIZING THE USE OF LIDAR IN FOREST RESOURCE INVENTORIES: WHAT IS THE OPTIMAL POINT DENSITY?

Kevin Lim, Paul Treitz, Murray Woods, Dave Nesbitt and David Etheridge

A GRID-BASE LINE ANALYSIS FOR STREET OCCLUSION REMOVAL AND BUILDING FAÇADE TEXTURING

Yawen Liu and Zhen Guan

PRACTICE ON INTEGRATING MULTIPLE NON-METRIC DIGITAL CAMERAS INTO AERIAL MAPPING SYSTEM

Fei Ma

MULTI-TEMPORAL IMAGE ANALYSIS OF THE COASTAL WATERSHED, NH

Meghan Graham MacLean, Alexis M. Rudko and Russell G. Congalton

REGISTRATION OF LIDAR POINT CLOUDS USING IMAGE FEATURES

Manoranjan Majji, Brein Flewelling, Brent Macomber, John L. Junkins, Anup B. Katake and Hyochung Bang

EFFECT OF URBAN FORMS: TOWARDS THE REDUCTION OF CO2 EMISSIONS

Yasuyo Makido, Yoshiki Yamagata and Shobhakar Dhakal

ASSESSING SIMULATED LAND USE/COVER MAPS USING SIMILARITY AND FRAGMENTATION INDICES

Jean-Francois Mas, Azucena Pérez Vega and Keith Clarke

DETECTING AGRICULTURAL CHANGE USING HISTORICAL IMAGERY

Louise Matthews

FRAMEWORK TO AUTOMATICALLY CHARACTERIZE REAL PROPERTY USING HIGH RESOLUTION AERIAL IMAGES

Phillip Meixner and Franz Leberl
OBJECT-ORIENTED RESIDENTIAL BUILDING LAND-USE MAPPING USING LIDAR AND AERIAL PHOTOGRAPHS

Xuelian Meng, Nate Currit, Le Wang and Xiaojun Yang

A GEOPHYSICAL STEREO SATELLITE ELEVATION MAPPING SYSTEM

Gerry Mitchell and Michael Ehling

HIGH RESOLUTION STEREO SATELLITE ELEVATION MAPPING ACCURACY ASSESSMENT

Gerry Mitchell and Kevin MacNabb

USING HIGH RESOLUTION SATELLITE IMAGERY TO EVALUATE THE RELATIONSHIP BETWEEN HONEY MESQUITE CANOPY COVER AND FORAGE PRODUCTION ON HIHUHUAN DESERT

Ahmed Mohamed, Jerry L. Holechek, Derek W. Bailey and Carol L. Campbell

THEORETICAL GROUND ACCURACY ANALYSIS DERIVED FROM TODAY’S AIRBORNE DIGITAL FRAME CAMERAS AND DIRECT GEOREFERENCING

Mohamed Mostafa and Joe Hutton

UTILIZING NASA SATELLITE MISSIONS TO IDENTIFY BARK BEETLE INFESTATION IN SEQUOIA NATIONAL PARK

Michelle Newcomer, Janine E. Bird, Shaina M. Sabatine, Gabriel C. Sady, Ashley M. Stalzer, Tim A. Wheeler, Cindy Schmidt and J. W. Skiles

LINE MATCHING IN OBLIQUE AIRBORNE IMAGES TO SUPPORT AUTOMATIC VERIFICATION OF BUILDING OUTLINES

Adam Patrick Nyaruhuma, Markus Gerke and George Vosselman

AUTOMATIC GEOREFERENCING OF AERIAL IMAGES USING HIGH-RESOLUTION STEREO SATELLITE IMAGES

Jaehong Oh, Charles K. Toth and Dorota A. Grejner-Brzezinska

A COMPARISON OF SAR FILTERING TECHNIQUES ON AGRICULTURAL AREA IDENTIFICATION

Asli Ozdarici and Zuhal Akyurek

WORLDVIEW-2 PAN-SHARPENING

Chris Padwick, Michael Deskevich, Fabio Pacifici and Scott Smallwood

A SOCIAL NETWORK ANALYSIS APPROACH TO ANALYZE ROAD NETWORKS

Kyoungjin Park and Alper Yilmaz

GENERALIZATION OF DIGITAL TOPOGRAPHIC MAP USING HYBRID LINE SIMPLIFICATION
Woojin Park and Kiyun Yu

GPU ACCELERATION FOR AIRPHOTO PROCESS AUTOMATION

David Piekny

COMPARISON OF TWO DIFFERENT SURFACES FOR 3D MODEL ABSTRACTION IN SUPPORT OF REMOTE SENSING SIMULATIONS

Paul Pope and Doug Ranken

THE EFFECT OF LAI BASED MODIS VEGETATION INDEX IN DIFFERENT SCALE TO ESTIMATE GROSS PRIMARY PRODUCTIVITY

Supannika Potithep and Rikie Suzuki

AIRBORNE INFRARED-HYPERSPECTRAL MAPPING FOR DETECTION OF GASEOUS AND SOLID TARGETS

Eldon Puckrin, Caroline-Stéphanie Turcotte, Pierre Lahaie, Denis Dubé, Vincent Farley, Philippe Lagueux, Frédérick Marcotte and Martin Chamberland

ARRAY ALGEBRA AUTOMATION OF 4-D IMAGING AND RANGE SENSING

Urho Rauhala

OPTICAL IMAGES AND TERRESTRIAL LASER SCANNING CO-REGISTRATION BY THE USE OF FEATURE BASED METHODOLOGY

Erwan Renaudin, Ayman F. Habib, Eunju Kwak and Jacky Chow

USING GIS TO MODEL COMMON LOON (GAVIA IMMER) HABITAT

Alexis M. Rudko and Russell G. Congalton

CONTRIBUTION OF CLIMATE, SOIL, AND MODIS PREDICTORS WHEN MODELING FOREST INVASIVE SPECIES DISTRIBUTION USING FOREST INVENTORY DATA

Dumitru Salajanu and Dennis M. Jacobs

GEOMETRIC EVALUATION AND VALIDATION OF AERIAL AND SATELLITE DATA USING SIOUX FALLS GEOMETRIC TEST RANGE

Aparajithan Sampath, Don Moe, Jon Christopherson and Gregory Stensaas

RULE INHERITANCE IN OBJECT-BASED IMAGE CLASSIFICATION FOR URBAN LAND COVER MAPPING

Ejaz Hussain and Jie Shan

A SYNTHETIC SENSOR/IMAGE SIMULATION TOOL TO SUPPORT THE LANDSAT DATA CONTINUITY MISSION (LDCM)

John Schott, Rolando V. Raqueno, Nina G. Raqueno and Scott D. Brown

DESIGNING A GIS TO MEET REAL NEEDS IN THE MALDIVES
Mohamed Shafee, Kevin Lim, Robert Ryerson, Ihsan Sadiq and Ahmed Rasheed

MODAL-BASED CAMERA CORRECTION FOR LARGE BASELINE STEREO IMAGING

Nathan Short, Prather Lanier, Kevin Kochersberger and Lynn Abbott

EXPANDING UNDERGRADUATE REMOTE SENSING RESEARCH OPPORTUNITIES THROUGH WYOMINGVIEW

Ramesh Sivanpillai

SOCIO SPATIAL NETWORK ANALYSIS FOR RURAL ECONOMIC DEVELOPMENT

Steven Steinberg, Sheila Lakshmi Steinberg, Jason Barnes and Sarah Keeble

DETECTION AND ROBUST ESTIMATION OF CYLINDER FEATURES IN POINT CLOUDS

Yun-Ting Su and James Bethel

AUTOMATED VIDEO GEOREGISTRATION AT REAL-TIME RATE

Charles Taylor, John T. Dolloff, Matt Bower and Scott B. Miller

IMPROVING WORLD AGRICULTURAL SUPPLY AND DEMAND ESTIMATES BY INTEGRATING NASA REMOTE SENSING SOIL MOISTURE DATA INTO USDA WORLD AGRICULTURAL OUTLOOK BOARD DECISION MAKING ENVIRONMENT

William Teng, Richard de Jeu, Paul Doraiswamy, Steve Kempler, Iliana Mladenova and Harlan Shannon

REMOTE SENSING & GIS BASED LAND COVER, SOIL & LAND CAPABILITY INFORMATION FOR RESOURCES MANAGEMENT IN SEMI-ARID REGION OF PARAIBA, BRAZIL

Harendra S. Teotia and Djail Santos

COVARIANCE PROPAGATION FROM SPECIFIC TO GENERIC MODEL

Henry Theiss

EXPERIENCES WITH USING SIFT FOR MULTIPLE IMAGE DOMAIN MATCHING

Charles K. Toth, Hui Ju and Dorota A. Grejner-Brzezinska

PRECISE MAPPING: ALTM ORION ESTABLISHES A NEW STANDARD IN AIRBORNE LIDAR PERFORMANCE

Valerie Ussyshkin and Livia Theriault

LEAST-SQUARES BUILDING MODEL FITTING USING AERIAL PHOTOS AND LIDAR DATA

Sendo Wang, Yi-Hsing Tseng and Ayman F. Habib

SPATIO-TEMPORAL ANALYSIS OF BADLAND EXTENT IN SOUTHERN GUAM, MARIANA ISLANDS, USING TONAL ANALYSIS

Yuming Wen, Maria Kottermair, Mohammad Golabi and Shahram Khosrowpanah
MAPPING THE SPECTRAL AND SPATIAL CHARACTERISTICS OF MOUND SPRING WETLAND VEGETATION IN SOUTH AUSTRALIA: A NOVEL SPECTRALLY SEGMENTED PCA APPROACH

Davina White and Megan Lewis

DSM AND TRUE ORTHO GENERATION WITH THE ULTRACAM-L - A CASE STUDY

Alexander Wiechert and Michael Gruber

DEVELOPING A NEW ARCGIS TOOL TO QUANTIFY BUILDING-CONTENT VULNERABILITY FROM STORM-SURGE INUNDATION

Chandi Witharana, Thomas Meyer, Daniel L. Civco and Jeffrey Osleeb

A BIOLOGICALLY AND GEOMETRICALLY INSPIRED APPROACH TO TARGET EXTRACTION FROM MULTIPLE-SOURCE REMOTE SENSING IMAGERY

Lin Yan, Jiangye Yuan, Liang Cheng, DeLiang Wang and Ron Li

USING AIRBORNE HYPERSONTAL IMAGERY FOR MAPPING SALTCEDAR INFESTATIONS IN WEST TEXAS

Chenghai Yang, James H. Everitt and Reginald S. Fletcher

USING AERIAL PHOTOGRAPHY FOR MAPPING GIANT REED INFESTATIONS ALONG THE TEXAS-MEXICO PORTION OF THE RIO GRANDE

Chenghai Yang, James H. Everitt and John A. Goolsby

AN ALGORITHM PREDICTING BUILDING ROOF TOP DISPLACEMENTS ON AERIAL PHOTOS USING THE 3D COORDINATES OF ROOF TOP AND THE LOCATION OF LENS

Young Yang and Carol J. Friedland

EVALUATING THE POTENTIAL FOR CHARACTERIZING RIVER DEPTH FROM SWOT MEASUREMENTS: A CASE STUDY FOR THE OHIO RIVER

Yeosang Yoon, Michael Durand and Carolyn J. Merry

EXTRACTION OF ROAD SURFACE INFORMATION USING REMOTE SENSING

Hee Cheon Yun, Joon Kyu Park, Sung Soon Lee and Min Gyu Kim

LIDAR WAVEFORM CLASSIFICATION USING SELF-ORGANIZING MAP

Piroska Zaletnyik, Sandor Laky and Charles K. Toth

FROM WHERE TO WHAT: IMAGE UNDERSTANDING THROUGH 3-D GEOMETRIC SHAPES

Bingcai Zhang and William Smith

MONITORING SCOTCH PINE INFESTED BY SIREX NOCTILIO USING HYPERSONTAL DATA: A LABORATORY STUDY

Wenhua Zhang, Laura N. Calandra, Lindi J. Quackenbush, Jungho Im and Stephen A. Teale
HYDROLOGIC CHANGE ASSESSMENT - UPDATING THE NHD WITH MULTITEMPORAL IMAGERY

Demetrio Zourarakis

ROAD EXTRACTION FROM LIDAR DATA IN RESIDENTIAL AND COMMERCIAL AREAS OF ONEIDA COUNTY, NEW YORK

Yue Zuo and Lindi J. Quackenbush