

# POSTER SESSIONS

The posters will be on display in the Confederation Ballroom from 1:00 pm on Tuesday, October 30<sup>th</sup> to 11:30 am on Thursday, November 1<sup>st</sup>. Poster presentors will be available for an interactive session during the Exhibitors' Reception on Tuesday, October 30<sup>th</sup> from 5:30 pm to 7:00 pm.

## Data Development

**Investigating the use of Geographic Information System (GIS) and Spatial Information System (SIS) in Developing an Intelligent Transport System (ITS)**

Sayed Javed Ahmad, *University of Chittagong*, India

Mohammad Shahadat Hossain

## Hyperspectral

**Multifunctional Active Hyperspectral Sensor: Concept and Principles**

Andre Samberg, *AVAPROedu/Training and Consulting*, Iceland

## Land Cover Mapping — Agriculture

**Extraction of Vegetation Information in Qinghai Lake region via ASTER**

Jian Ji, *Chengdu University of Technology*, China

Yang Wunian, Qin Zhongjian, and Yuan Ye

**A Remote Sensing Approach to Delineation of Agricultural Fields and Natural Herbaceous Areas for Grizzly Bear Habitat Management**

Adam Collingwood, *University of Saskatchewan*, Canada

Xulin Guo, Steven E. Franklin, and Gordon Stenhouse

**SPOT Satellite Imagery and Neural Network Trees for Agricultural Land Cover Classification in Southern Alberta**

Anne Smith, *Agriculture and Agri-Food Canada*, Canada

Bernard D. Hill, Gary Larson, and T. Hulstein

**Biophysical and Spectral Characteristics of Selected Shrub Types in the Canadian Mixed Prairie**

Arun Govind, *University of Saskatchewan*, Canada

Xulin Guo and Scott Bell

**Quantifying Agricultural Vulnerability to Drought Using Remote Sensing Estimated Yield: a Case Study in Southern Alberta**

Anne Smith, *Agriculture and Agri-Food Canada*, Canada

Xiaomeng Ren and Wei Xu

## Land Cover Mapping — Forestry

**Multiple Forward Mode Canopy Reflectance Model Inversion for Overstory Forest Biomass**

Scott A. Soenen, *University of Lethbridge*, Canada

Ronald J. Hall, Derek R. Peddle, and Craig A. Coburn

**Automatic Mapping Tree Structures using Multi-angle Digital Aerial Images**

Kongwen Frank Zhang, *York University*, Canada

Baoxin Hu and John Miller

**Mapping Forest Inventory Attributes across Coniferous, Deciduous and Mixedwood Stand Types in the Northwest Territories from High Spatial Resolution Quickbird Satellite Imagery**

Ron J. Hall, *Natural Resources Canada, Canadian Forest Service*, Canada

R.S. Skakun

**MFM Canopy Reflectance Modeling and Normalised Burn Ratio Assessment of Pre-fire Overstory Canopy Structure and Post-fire Burn Severity at the Lost Creek Fire, Alberta Rocky Mountains**

Derek R. Peddle, *University of Lethbridge*, Canada

Ronald J. Hall, Chris D. Jackson, Scott S. Soenen, Mark Gibb, and Dan Juhlin

**Mapping Boreal Forest Wildfire Burn Scars from Satellite Imagery**

Jadah Follitt, *The University of Western Ontario*, Canada

Micha Pazner and Jinfei Wang

## Land Use/Land Cover Mapping

**Multi-resolution Object Based Segmentation and Multi-platform Classification Workflows for Rural Land use Mapping in Southern Ontario**

Ian Sinclair, *Ontario Ministry of Natural Resources*, Canada

Natalie Coultice

**Mapping Alteration Mineral with Hyperion and ASTER Data in Peru**

Yuddy Ramos, *Université de Sherbrooke*, Canada

Stéphane Peloquin

**The Automated Multitemporal Updating through Signature Extension (AMUSE) for Generating Land Cover Time Series**

Ian Olthof, *Canada Centre for Remote Sensing, Natural Resources Canada*, Canada

Robert Fraser and Darren Pouliot

**Building Change Detection in Urban Environment Based on Shadow Analysis**

Mario Beauchemin, *Canada Centre for Remote Sensing, Natural Resources Canada*, Canada

Ko B. Fung

**Application of Southern Ontario Land Resource Information System Mapping for Delineating Natural Heritage Systems**

Danijela Puric-Mladenovic, *Ontario Ministry of Natural Resources*, Canada

Silvia Strobl

**Monitoring a Continent with High Resolution Imagery**

John Ahlrichs, *RapidEye*, Germany

Klaus Schelling and Frederik Rothenhaeusler

**A Multiresolution Method for Unsupervised Change Detection**

Mario Beauchemin, *Canada Centre for Remote Sensing, Natural Resources Canada*, Canada

Ko B. Fung

## Technology — Lidar

**A Wrapped-Surface Reconstruction Method of Lidar Points to Identify Tree Crown Attributes**

Akira Kato, *University of Washington*, USA

L. Monika Moskal, Mark Swanson, Peter Schiess, and Donna Calhoun

**Clustering Method for Road Extracting from Lidar Points of Urban Areas**

Choi Yun Woong, *Chonbuk National University*, South Korea

Jang Young Woon and Cho Gi-Sung

**Lidar Toolkit Comparison to Traditional Lidar Processing Software**

Trevor Milne, *Nova Scotia Community College*, Canada

Tim Webster

Continued on page 22

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## **Structural and Topographic Influences on Water Fluxes using Airborne Lidar and a Footprint Model Parameterisation at a Mature Jack Pine (*Pinus banksiana*) Forest in Saskatchewan, Canada**

Laura Chasmer, *Queen's University*, Canada

A. Barr, A. Black, C. Hopkinson, K. Kljun, H. McCaughey, and P. Treitz

## **Lidar Measurements for the Short-term Forecast of Meteorological Stability**

Polkanov Jury Alekseevich, Belarus

## **Wetlands**

### **Study of Peatlands – Aqualyse in the Area of the Hydroelectrical Complex LaGrande using Satellite Panchromatic Images of Very High Resolution**

Maria Dissanska, *INRS-ETE*, Canada

Monique Bernier and Serge Payette

## **Miscellaneous**

### **Medium-format Digital Cameras: A Study into the Calibration and Stability Analysis**

Ayman Habib, *University of Calgary*, Canada

Anna Jarvis, Stephen Griffiths, and Davor Gugolj

### **When Computers Can't Do It**

Charles Olson, *University of Michigan*, USA

### **Using Remote Sensing for Landscape Scale Change Detection of a Northern Peatland**

David Boschman, *University of Regina*, Canada

Joe Piwowar

### **Harbour Monitoring with Synthetic Aperture Radar (SAR) imagery**

Jeff Secker, *Defence R&D Canada*, Canada

Michael Robson and Paris W. Vachon

### **NRCan Emergency Radiological/Nuclear Airborne Response**

Laurel Sinclair, *Natural Resources Canada*, Canada

Ken Ford and Brad Harvey

### **Image to Vector Data Matching in Support of Geocoding Earth Observation Imagery**

Jack Gibson, *Canada Centre for Remote Sensing*, *Natural Resources Canada*, Canada

Stefan Nedelcu

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