

## Important Information and Dates

<b>Deadline for Abstracts:</b>	24 October 2011
<b>Deadline for Full Paper:</b> <i>(Technical Commissions requiring peer review)</i>	28 November 2011
<b>Deadline for Full Paper:</b> <i>(Technical Commissions not requiring peer review)</i>	30 April 2011
<b>Early Bird Registration Deadline:</b>	24 February 2012
<b>Accommodation Deadline:</b>	20 July 2012

## Invitation

The Surveying and Spatial Sciences Institute of Australia and I would like to welcome participants to the XXII ISPRS Congress in Melbourne, 2012. Melbourne is my home town, and a place that I am proud to invite delegates and friends to experience.

The Congress will run for 8 days, from the 25th August to 1st September 2012. The program has been designed to give visitors the maximum opportunity to enjoy all the attractions that Melbourne, the State of Victoria and Australia has to offer, as well as providing a rich and rewarding social and technical program. The Congress will be well worth the journey.

In keeping with the times, and in an effort to have a Congress with minimal environmental impact (the Congress Centre has a 6 star environmental rating) much of the communication for the Congress will now be electronic. Please bookmark the URL for the Congress, and register for electronic updates. We will still provide hard copy for those who cannot receive email, but we hope to keep this to a minimum.

**Cliff Ogleby**  
*Congress Director*



## Refereed Papers

The paper submission process for the Congress will offer support for both peer reviewed and non peer reviewed papers, at the discretion of the Technical Commissions. The review process will be a "double-blind" peer review of de-identified full papers, and peer reviewed papers will be clearly identified in the proceedings.

## The ISPRS Society

Established in 1910, the ISPRS is a truly international society, with an established reputation in the broad areas of photogrammetry, remote sensing and spatial information sciences. It is devoted to the development of international cooperation for the advancement of photogrammetry and remote sensing and their applications. The direction and management of the Society is undertaken through the quadrennial Congress, the General Assembly, the Council, the Financial Commission, the Technical Commissions and the Sustaining Members Committee. Its scientific activities are entrusted to and conducted by eight Technical Commissions and their Working Groups.

## Further Information

To keep up to date with Congress developments, and for further information on travel, accommodation and deadlines, please register your contact details at [www.isprs2012.org](http://www.isprs2012.org)

## Congress Organiser



**ICMS Pty Ltd**  
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# The XXII Congress of the International Society for Photogrammetry and Remote Sensing

25 August – 1 September 2012  
Melbourne Convention and Exhibition Centre  
Melbourne, Australia



[www.isprs2012.org](http://www.isprs2012.org)



## The Congress

<b>Saturday August 25</b>	Youth Forum	Workshops Tutorials	Opening Ceremony	Welcome Reception
<b>Sunday August 26</b>	Plenary Session	Presentation Sessions	Presentation Sessions	Exhibitors Reception
<b>Monday August 27</b>	Presentation Sessions	Presentation Sessions	Poster Sessions	Home Hospitality
<b>Tuesday August 28</b>	Presentation Sessions	Technical Tours	Poster Sessions	Theatre Night
<b>Wednesday August 29</b>	Plenary Session	Presentation Sessions	Poster Sessions	Restaurant Night
<b>Thursday August 30</b>	Presentation Sessions	Technical Tours	Poster Sessions	Sports Night
<b>Friday August 31</b>	Plenary Session	Presentation Sessions	Poster Sessions	Conference Dinner
<b>Saturday September 1</b>	Plenary Session	Presentation Sessions	Closing Ceremony	Sports Night

## Venue

### Melbourne Convention and Exhibition Centre

The Melbourne Convention and Exhibition Centre is conveniently located in the heart of the city, within walking distance of the city hotels and is well serviced by public transport to access the central business area and inner suburbs.



Melbourne Convention and Exhibition Centre

### Host City - Melbourne

Melbourne is a cosmopolitan city of some 3.5 million people situated near the south eastern corner of the Australian mainland. While the people of Melbourne come from many diverse cultural and ethnic backgrounds, English is by far the predominant language spoken. Melbournians are quite used to having many visitors from non-English speaking backgrounds visiting every year.

Melbourne is proud of its record as a diverse multicultural and tolerant city, and of its fine food, wines and restaurants. Indeed, Melbourne has been recognised internationally as the "World's Most Liveable City".

Melbourne is as far south of the equator as Athens is north. Hence Melbourne has a warm "Mediterranean" climate. Melbourne enjoys a temperate climate with cool, but not unbearably cold, winters. The weather in August/September is sometimes cold and cloudy with strong winds, but can also be mild and pleasantly sunny. This time of year however is the best time to see the other attractions that Australia has to offer.

The local currency is the Australian Dollar. Most things can be purchased on any internationally recognised credit card but it is advisable to have some local currency for smaller purchases. Currency exchanges can be found in the airport, city area and some banks.



## Australia

Australia's landscape is a picture of amazing diversity, contrasts and natural wonder. From the ancient rock Uluru (Ayers Rock) to the Great Barrier Reef, Australia's Red Centre reaches out to a magnificent azure coastline. Scattered across this beautiful environment, our thriving cities bubble with sophistication and energy. Brisbane, Queensland's vibrant sub tropical capital, Sydney and its magnificent harbour, and Melbourne with its heritage of arts, fashion and fine food, are just three of Australia's outstanding city destinations.



Australia, the world's smallest continent and largest island, is like nowhere else on earth. It is as big as mainland United States but has only 22 million people. It is adventurous, stylish and friendly, has unique flora and fauna and a fantastic climate. Aussies (as the locals are called) enjoy sport, beaches, music, performing arts, outdoor cafes, pubs, multicultural restaurants and good friends. A rich cultural blend of fashion, languages and cuisine colours the streets of Australia's major cities.

Australia's diverse mix of environments and cultures offers an encounter like no other. Explore lively, sophisticated cities, experience the awe-inspiring beauty of Australia's natural wonders, discover the ancient mysteries of Aboriginal culture, and see and feel the rigours of life in the rugged Outback. Regardless of which path you take, Australia guarantees the experience of a lifetime!



## Sponsorship & Exhibition Opportunities

Companies are invited to participate as Sponsors and Exhibitors during the XXII Congress of the International Society for Photogrammetry and Remote Sensing. Various Sponsorship packages are available that will provide excellent opportunities to promote your company and ensure a high degree of exposure to Congress delegates. The Exhibition will provide an opportunity for organisations to display their wares and promote their interest to professional delegates. For further inquiries please contact ICMS Pty Ltd, the Congress and Exhibition Managers, at [isprs2012@icms.com.au](mailto:isprs2012@icms.com.au)

[www.isprs2012.org](http://www.isprs2012.org)

# VII/4: Methods for Land Cover Classification; VII/5: Methods for Change Detection and Process Modelling

Wednesday, 29 August 2012 14:00 - 15:30, 211

*Chair* Peijun Li Peking University China

## Classification of Active Microwave and Passive Optical Data Based on Bayesian Theory and MRF

- Fan Yu, Chinese Academy of Surveying and Mapping, China

## Spatial Interpolation as a Tool for Spectral Unmixing of Remotely Sensed Images

- Xi Li, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, China

## Application of MODIS Data to Assess the Latest Forest Cover Changes of Sri Lanka

- Kithsiri Perera, University of Southern Queensland, Australia

## Accuracy Evaluation of Two Global Land Cover Data Sets Over China Wetlands

- Zhenguo Niu, State Key Laboratory of Remote Sensing Science, Institute of Remote Sensing Applications, Chinese Academy of Sciences, China

## Evaluation of ASTER Images for Characterization and Mapping of Ametist Mining Residues

- Paulo Roberto Markoski, UFRGS, Brazil

## Random Forests-Based Feature Selection for Land-Use Classification using LIDAR Data and Orthoimagery

- Jun Yu, GeoSTARS Group, School of Information Science and Engineering, Xiamen University, China

## Impact of Different Topographic Corrections on Prediction Accuracy of Foliage Projective Cover (FPC) in a Topographically Complex Terrain

- Sisira Ediriweera, Southern Cross University, Lismore, Australia

## Land use Mapping in Khuzestan Province by using the Satellite Imagery

- Maisam Toosi, Mamaghan Islamic Azad University, Iran

## Defining Densities for Urban Residential Texture, through Land use Classification, from Landsat 7etm+ Imagery: Case Study of Spanish Mediterranean Coast

- Nicola Colaninno, CPSV, Centre of Land Policy and Valuations at Universitat Politècnica de Catalunya, Barcelona Tech (UPC), Spain

### **Comparison of Various Techniques of Glacial Lake Mapping in Teesta River Basin, India**

- Rahul Dev Garg, Indian Institute of Technology Roorkee, India

### **Albedo Pattern Recognition and Time-series Analyses in Malaysia**

- Siti Aekbal Salleh, Faculty of Architecture Planning and Surveying, Universiti Teknologi MARA, Malaysia., Malaysia

### **Quantitative Analysis of Urban Expansion in Central China**

- Yongnian Zeng, School of Geoscience and Geomatics, Center for Geoinformatics and Sustainable Development Research, Central South University, China

### **Combining Local Features and Progressive Support Vector Machine for Urban Change Detection of VHR Images**

- Chunlei Huo, Chinese Academy of Sciences, China

### **Identifying Building Change Using High Resolution Point Clouds - An Object-based Approach**

- Steve du Plessis, Intergraph, United States