

Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter from the [Global Spatial Data Infrastructure Association \(GSDI\)](#) which is available in both English and Chinese language versions. The newsletter is produced for people interested in Spatial Data Infrastructure, GIS, remote sensing and geospatial data issues in Asia and the Pacific. It aims to raise awareness and provide useful information to strengthen SDI initiatives and support synchronising these activities across the region. Support for the newsletter is also provided by the [Permanent Committee on Geographic Information for Asia and the Pacific \(PCGIAP\)](#), a regional forum to enhance cooperation in the development of a regional geographic information infrastructure. The newsletter is currently being produced for GSDI by the [Centre for Spatial Data Infrastructures and Land Administration](#) at the University of Melbourne.



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Message from the editors

Welcome to the June issue of the newsletter.

If you have news or information related to SDI, GIS, RS or spatial data that you would like to share with the community (e.g. workshop announcements, publications, reports, websites of interest etc.), kindly [send us](#) the materials by the 25th of the each month for your contribution to be included in the next newsletter.

Malcolm Park and Serryn Eagleson ([Editors](#)), at the [Centre for Spatial Data Infrastructures and Land Administration](#), The University of Melbourne.

Contributions

Thank you to the following people and organisations for their contributions to this issue:
 Kate Lance, and Baek Wonkug for news feeds, Jeremy Shen and Bruce Lan and colleagues for the Chinese translation as well as Shivani Lal, *GIS Development*, *GeoSpatial World* and *Asia Surveying & Mapping* magazine for directly contributing to the newsletter.

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SDI News, Links, Papers, Presentations**National Spatial Data Infrastructure Take Root in Asia**

National Spatial Data Infrastructures (NSDI) continue to expand and grow across Asia. Thailand this week has indicated that the country is aiming to initiate its own NSDI by 2012. As with other similar projects, the goal for establishing such organisations is to spatially enable government operations with a view to increasing efficiency, transparency and to provide increased contact between citizens, business and government.

As Dr. Chaowalit Silapathong, Director of the Geo-Informatics Technology Development Agency (GISTDA) in Thailand stated, "Eventually, and when it is fully operational, the "ThaiSDI" will be fully networking with distributed portal nodes operated by collaborative efforts of cooperating public and private agencies to accommodate the sharing of geospatial information over this enabling portal or internet platform."

Source: [Asia Surveying and Mapping Magazine](#)

CSIRO develops geospatial data network

The Commonwealth Scientific and Industrial Research Organisation (CSIRO) in collaboration with AuScope have developed an open-access network of geospatial data and supporting infrastructure -- the Spatial Information Services Stack (SISS) -- for the exploration of Australia's geology. AuScope chief executive, Bob Haydon, said the new network can be used by anyone to investigate the geological history of Australia while researchers can also use it to gain a greater understanding of climate change, sustainable energy, water and mineral resources and, extreme geological activity such as earthquakes.

Source: [Computer World](#).

**National mapping organisations: A model for nation building**

The geospatial industry is growing rapidly worldwide and the major stakeholders in this industry are the national mapping organisations (NMOs) of various nations. NMOs are essential participants in the development of an infrastructure of any nation, but particularly for nation building in developing countries. Changing dynamics of the geospatial industry spell changes for the NMOs as well. This article discusses how NMOs can harness opportunities from challenges and evolve a model for nation building.

Source: [Geospatial World](#)

Vacancy: Spatial Data Infrastructure/Technical Leader

LINZ's New Zealand Geospatial Office is continuing its exciting period of development and growth, and there are now several work streams in motion within its industry-wide work programme. This new leadership role requires a strong collaborator with great interpersonal skills. You will be engaging with a range of external stakeholders from central and local government, academia and the private sector, working towards several key deliverables, one of which is a national formal spatial data infrastructure by 2014.

To apply for this position please visit our Hot Jobs at www.h2r.co.nz, and refer to vacancy number 13892.

Applications close 5pm Wednesday 18 May 2012. For further information please contact Joanna Schmelz on 04 4999 471 or jo@h2r.co.nz. All applications will be acknowledged by email.

New Delhi Spatial Database to be Used Starting August 1

The capital has about 48 lakh buildings, 3 lakh manholes and nearly 17,000 kilometres of running road length. All this information is part of the extensive database that captures the demographics of the capital and utilities like stormwater drains, sewer lines, infrastructure projects and urban planning details under Delhi State Spatial Database. Starting August 1, all state departments and civic agencies have to mandatorily access, use and share information through secured communication networks under the Delhi Geographical Spatial Data Infrastructure (Management, Control, Administration, Security and Safety), Act 2011.

Source: Times of India and [Asia Surveying and Mapping Magazine](#)

China's Vice Premier calls for better use of geospatial data

China's State Bureau of Surveying and Mapping has just been recently renamed as the State Bureau of Geographical Information, Surveying and Mapping, a move which according to Vice Premier Li Keqiang is one of the government's efforts to support the development of the geographical information sector for the development of the country.

According to an official statement, the Vice Premier said that China gives great importance to the development

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of the geographical information sector because it is vital to the development of new industries, digital cities, China's marine economy, and national security.

The Vice Premier also cited the remarkable contribution of surveying and mapping work to the disaster relief and reconstruction efforts after a devastating earthquake struck Wenchuan in 2008.

The output value of the country's geographical information industry in the previous year reached 100 billion yuan (\$15.4 billion), with 400,000 people working within the sector.

The development of China's geographic information industry will be included in the national 12th Five-year plan. Thanks to Kate Lance for this item

[Spatial enablement starts with spatial literacy](#)

"Spatial enablement starts with spatial literacy," said Dr Chaowalit Silapathong, Director of the Geo-Informatics office at the Geo-Informatics and Space Technology Development Agency (GISTDA) of Thailand. Dr Silapathong was responding to a question of FutureGov journalist, "What does it take for a country to be spatially enabled"? – is it technological resource, international standards, or human resource?

Source: [FutureGov](#) and Geospatial World

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SDI Spotlight

This month's "Spotlight" feature is from Sam Amirebrahimi. Sam is currently enrolled in "Master of Spatial Information Science" programme in the University of Melbourne. He also holds membership of Centre for SDIs and Land Administration (CSDILA) since 2010 and is currently is responsible within the centre's activities as research assistant (RA).

3D Modeling and Visualization Platform for Engineering of Sustainable Cities by Sam Amirebrahimi

Cities around the world have been constantly growing for decades in both economic and physical (size and population) terms. Over half of the population of the world is now living in cities and it is predicted that it will continue for the next hundred years. This rapid growth is facilitated by number of factors and will result in environmental and social problems such as increase in traffic congestion, health problems, vulnerability of natural resources, loss of agricultural and green lands, etc. Increase in population and their growing needs affect not only urban life but also have effects on people in outer suburbs and rural areas and put pressure on their resources. This pressure may reduce the living standards in those areas and as there is no limit for needs of growing population, ecological issues will emerge. Additionally, phenomena such as climate change and global warming further affect our resources and by changing the style of living in urban areas, they add more complexity in both style and structure of our cities.

Sustainable development is the key to avoid future problems for growing population of cities and many in research community are dedicating their resources for more efficient approaches for its achievement. Sustainability is defined as "*ability to meet present needs without compromising the ability of future generations to meet their own needs*". It is found that there is a need for integrated modeling for current and future developments for impact assessment of current and future developments to support the decisions made by involved stakeholders such as urban planners, architects, engineers, etc. This approach was suggested since pure growth management methods seldom address social, economic and environmental concerns simultaneously.

As it may sound simple in the beginning, there are however many challenges on the way. In assessment of sustainability of a development, normally three sustainability domains (social, economical and environmental) also known as "sustainability triangle" are considered. Sustainability of indicators in each determines the level of sustainability of that domain; and their combination determines the overall sustainability of the development.

These indicators are connected and have effects on each other. Therefore, modeling of the sustainability of a development requires the analysis of a network of interconnected factors which poses number of challenge for its (a) modeling, and (b) decision making based on the result of those models. Challenges associated with modeling include the analysis of indicators and their relationships in above multi-level interconnected network at different stages of the development of the project. On the other hand, challenges of latter include existence of data in variety of formats and need for their integration as well as the involvement of numerous stakeholders with different backgrounds and concerns. A perceived sustainable development scenario by a stakeholder or group of stakeholders may not necessarily be sustainable from the eye of others. Therefore, collective decision

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making and high level of interaction among stakeholders is necessary for coming up with a single decision to support all aspects of sustainability of the project. Additionally, *correct interpretation of data as the result of modeling* and *making right decisions* accordingly can be considered as other challenges for decision makers. As part of a solution to this problem, previous research suggest the visualization of collected spatial and non-spatial data and utilization of maps to visualize data in their respective locations for better understanding of the possible issues and identification of solutions for them. Urban environment is very complex in its nature and consequently challenges are posed in its visualization. Numerous approaches for visualization of urban data are available; however, advancement of Information and Communication Technology (ICT) technologies in 3 dimensional graphics has created the opportunity of realistic presentation of the urban environment using 3D virtual city models. 3D presentation of reality has many advantages over traditional 2D approaches (e.g. what decision maker see is close to reality and it reduces the level of brain work and analysis effort). However, physical representation of the buildings and other aspects of city is not enough for decision making and inclusion of result of models modeling in visualized environment becomes necessary for decision makers to understand the development scenarios and their impacts on each domain or overall sustainability of the city.



There are numerous tools and systems developed to address different aspects of mentioned problems; however, mostly are too focused on certain aspect of sustainability modeling or visualization; and many others are expert-oriented and not suitable for other users. Such focused single-dimension tools may benefit the decision making at small scale or certain purpose; but they are not comprehensive and are incapable of showing the big image for the decision maker.

Description of problems in planning for sustainable development and current state of the research highlights the need for a holistic, interdisciplinary (including urban planning, environmental engineering and management, economic and social sciences, engineering, ICT, Architecture, etc.), and integrated approach is required to support:

- a) Acquisition and integration of relevant data from variety of sources as inputs of the system,
- b) Flexible modeling of current and future developments according to existing data, their semantics and defined scenarios,
- c) Multi-level visualization of current and future states of the city; and
- d) Supporting interaction and communication of large number of stakeholders; to facilitate the complex process of decision making for a sustainable future.

Towards achieving the above goal, this research in Center for SDI and Land Administration (CSDILA) in the University of Melbourne aims to introduce a seamless, connected, and integrated modeling and 3D visualization platform using SDI to support and facilitate collective decision making for urban development. Its main goal is to utilize the suitable latest state-of-the-art web-based technologies to create a collaborative environment for data

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sharing and integration by utilization of various aspects of SDI for variety of users from different backgrounds and levels of expertise. It is hope that with the constant consultation and collaboration with experts in industry as well as other researchers in the same field in research community, the platform becomes a tool to facilitate smoother decision making process for creating a more sustainable future.

The editors remind our subscribers and readers that we welcome contributions for the *Spotlight* feature.

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GIS Tools, Software, Data

[Homemade GIS software getting popular](#)

Geographic information system (GIS) software is gradually getting popular in the public; it is very common in foreign countries. China's GIS public application is on a fast development stage, and industrial application is increasingly extensive too. Professor Liu Yong, Vice President of China Association of Geographic Information System and President of Zondy Cyber, said the other day that with the vigorous support and guidance of the State, domestic GIS software is accelerating popular pace, everybody will be able to enjoy GIS service and the convenience brought by GIS in the near future.

Source: [China Economist](#)



[Avenza Releases Geographic Imager 3.3 for Adobe Photoshop](#)

Avenza Systems Inc., producers of MAPublisher® cartographic software for Adobe Illustrator® and PDF Maps for Apple iOS, has released **Geographic Imager 3.3** for Adobe Photoshop. This release is fully compatible with Adobe Photoshop CS 5.1, which is also known as Adobe Photoshop 12.1 in Adobe CS5.5, as well as Adobe Photoshop 12.0.4 in Adobe CS5.

Source: GISUser

[You'll Soon Be Able To See Inside Buildings With Google Maps](#)

[Google](#) has unveiled Business Photos for Google Maps, a new product that allows users to check out the inside of local businesses.

[Marissa Mayer](#), Google's vice president of consumer products, made the announcement Thursday at the [Social-LoCo](#) conference in San Francisco. During a demo on stage, Mayer and a co-worker showed off the ability to "enter" local businesses and see the inside of a building. Businesses can provide photos to Google, which can then be compiled into a 360-degree view of a building's interior.

These features have been making the rounds in the rumor mill for more than a year. Back in February 2010, we heard that Google would be [adding Street View-like features](#) for retail interiors as part of Google Maps.

[Business Photos](#) could prove to be a useful tool for restaurants, bars and establishments that depend on local patronage. Many people like to check out the places they eat and drink on the web. Soon, Google users will be able to see inside these places directly from Google Maps.

Mayer says that Google Business Photos will be released in the U.S., Australia, New Zealand, Canada and several other countries next week, with more countries getting the feature in the following month.

Source: Mashable.com and the [Atlantic Wire](#)



[Jack Dangermond Addresses the Origins and Future of GIS](#)

Jack Dangermond, founder and president of Esri, addressed the start of the company with the audience at the Esri Forestry GIS Solutions Conference this week.

Source: Asian Surveying & Mapping

[Flying Underwater to Explore with New Technology](#)

Fully 70% of the world is covered by water. It has been said that we know more about the moon, than we do about the oceans. Recently Hawkes Ocean Technologies won recognition from CAD software company Autodesk for the development of a new submersible design. 'DeepFlight Challenger' is the world's deepest

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ocean explorer, and the winged submersible promises to keep us fascinated, curious and in awe in the days ahead as it surveys, explores and roams beneath the waves.

Source: Asian Surveying & Mapping

[Singapore adds new services on OneMap portal](#)

Singapore has just recently added two new services, **Property Prices** and **Space2lease** on the OneMap portal to help individuals interested in the residential property market information and businesses in search of commercial space.

OneMap is a high-resolution one-stop map which enables the public to access location-based services and information of government agencies.

Since its launch in March 2010, OneMap has enabled the public to access a wide range of government information from more than 40 thematic layers of information and value-added services ranging from education, culture, to community, to the environment.

Thanks to Kate Lance for this item

[Geoscience Australia considers cloud for data processing](#)

Geoscience Australia (GA) is closely monitoring cloud computing to fulfil its growing processing demands, *itnews.com.au* reported.

Source: Geospatial World and [IT News](#)

[OGC reduces Membership fees for Developing Nations](#)

The Open Geospatial Consortium (OGC) announced new membership fee structure that gives certain categories of organizations discounts based on their country of registration. These categories include government, academic, research, not-for-profit, individuals, and some for-profit organizations. Discounts are based on world economic indicator data published by the World Bank. Another element of OGC's flexible membership pricing approach is GovFuture, a new kind of membership available for government agencies operating at the local, state or provincial levels in all countries. GovFuture membership focuses on helping local and sub-national governments implement and use OGC standards to achieve government mission objectives. For more information, see the [OGC website](#).

Source: OGC

[National map of sea-floor biodiversity](#)

Marine scientists from five research agencies have pooled their skills and resources to map life on the sea floor – compiling a directory of biodiversity on Australia's continental shelf.

[Strategic Review of Geoscience Australia](#)

The *Strategic Review of Geoscience Australia* (the Review) was commissioned by the Australian Government in the context of the 2010-11 Budget.

The Review found that the products and capabilities of Geoscience Australia (GA) support the Australian Government across a wide range of policies that address nationally significant challenges in the management and exploitation of Australia's natural resources. The Review also found the main activities of GA have a sound basis in serving the Australian Government's interests in facilitating resource development.

The Review recommended improvements to strategic planning, priority setting and performance reporting to improve management of competing interests in the deployment of geoscience resources and capabilities. The Review also recommended a review of the current process for allocating offshore acreage exploration permits – a process which GA currently supports by providing fundamental geological and geoscience information, similar to a 'prospectus', to potential investors in exploration permits.

[Document available](#).

[Sri Lanka to develop environmental resource database](#)

The Central Environmental Authority will be developing an Environmental Resource Information Database on each district of the country using remote sensing and geo spatial data bases in an effort to effectively and efficiently manage the country's resources.

The Environmental Resource Information System will be used as a tool for environmental management, planning, monitoring, evaluation, and awareness activities of the agency.

The spatial database will include environment-related information such as water resources, wetlands, wildlife, archaeological monuments, and socio-economic data at the Grama Neladari level.

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“Since Sri Lanka has stepped into the development phase, district wise data base would guide the country toward sustainable development” says Charitha Herath, Chairman at the Central Environmental Authority in Sri Lanka.

The information from the database would be a vital tool for development planners, environmental researchers, university students, and government agencies in gaining a deeper understanding of resource management. In addition, the information provided in the database would also help the aforementioned beneficiaries in identifying environmental systems, monitor and evaluate factors that affect environmental resources, and enable government agencies coordinate their environmental efforts more effectively

Thanks to Kate Lance for this item

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News from abroad

“This section has been included to highlight some of the developments happening outside the region which demonstrate SDI in action.

[New Ways to Exploit Raw Data May Bring Surge of Innovation, a Study Says](#)

The study estimates that the use of personal location data could save consumers worldwide more than \$600 billion annually by 2020. Computers determine users’ whereabouts by tracking their mobile devices, like cellphones. The study cites smart phone location services including Foursquare and Loopt, for locating friends, and ones for finding nearby stores and restaurants.

But the biggest single consumer benefit, the study says, is going to come from time and fuel savings from location-based services — tapping into real-time traffic and weather data — that help drivers avoid congestion and suggest alternative routes. The location tracking, McKinsey says, will work either from drivers’ mobile phones or GPS systems in cars.

Source: [New York Times](#)

[GIS-based toolkit to identify the empty homes](#)

The Communities and Local Government (CLG) department in the UK launched two new online toolkits to help tackle the problem of empty homes in England. It has introduced a GIS-based empty homes mapping toolkit. It plots the location of long term empty homes in private ownership across the country. This allows councils to pinpoint empty homes hotspots in their area and work with landlords and the local community to bring derelict properties back into use. The system allows users to overlay maps with other information such as levels of housing need.

Source: GeoSpatial World and the [Guardian](#)

[GIS support for the 2011 local government elections \(SOUTH AFRICA\)](#)

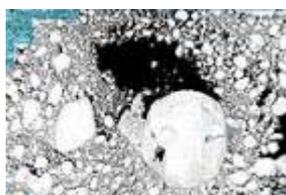
The delivery and management of regular free and fair elections is vital, and an effective geographic information system (GIS) is a crucial spoke in the election wheel. AfriGIS has worked with the Independent Electoral Commission of South Africa (IEC) since 1998 and is currently assisting the IEC to power successful municipal elections in May 2011.

Source: [PositionIT](#), April/May 2011 [thanks to Kate Lance for this item]

[Institutionalising a Geospatial Data Infrastructure at the CSIR](#)

Institutionalising a Geospatial Data Infrastructure was a major watershed for research data management at the Council for Scientific and Industrial Research (CSIR). For the first time in the CSIR’s history, the Information and Communications Technology (ICT) department took over the management and maintenance of research-related software and data. For the first time, geospatial data was related to publication outputs. Heidi van Deventer shares the experiences, lessons learnt and the remaining challenges.

Source: [PositionIT](#), April/May 2011 [thanks to Kate Lance for this item]



[Stamukha Detection from Space for Navigation Safety Through Northern Sea Route](#)

“Atomflot” Fleet Operations Board together with ScanEx Research & Development Center carried out a joint project on operational satellite-based detection of large stamukhas (grounded ice hummocks) in shallow-water areas of the Kara and East-Siberian seas, used for navigation of commercial ships.

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Stamukha – is a hummocky ice formation that has run aground, usually formed in shallow-water areas of freezing seas. Detection and mapping of stamukhas on seaways in shallow-water areas of the Arctic Region is an important task to ensure safety of ice channeling of ships through the Northern Sea Route. In the eastern part of the Arctic, where depth surveys are not frequent enough, stamukhas may take shape on unnamed banks not indicated on maps at depths of more than 20 meters.

Source: V1 magazine and [ScanEx News](#)

[3D Cadastre and Future Expectations](#)

Many organizations are considering to move from 2D to 3D operations. This trend is the result of several factors including newly developed technologies, improved computer performance, 3D software innovations and changes in cost structures. Several users report practical and effective gains through the use of 3D approaches. Cadastre are also impacted by the 3D shift. The International Federation of Surveyors (FIG) has also been involved in investigating current and future potentials for 3D cadastre.

Source: Asian Surveying & Mapping

[Satellite survey unearths lost Egyptian pyramids](#)

Seventeen lost pyramids have found in a new satellite survey of Egypt. More than 1,000 tombs and 3,000 ancient settlements were also revealed by looking at infra-red images which show up underground buildings. The work has been pioneered at the University of Alabama in Birmingham by US Egyptologist Dr Sarah Parcak. Her team analysed images from satellites orbiting 700km above the earth. Infra-red imaging was used to highlight different materials under the surface.

Source: [BBC](#) and Geospatial World



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Articles



FIG Article of the Month - May 2011

[World-wide Inventory of the Status of 3D-Cadastres in 2010 and Expectations for 2014](#)

by Peter VAN OOSTEROM, Jantien STOTER, Hendrik PLOEGER, Rod THOMPSON and Sudarshan KARKI

In this paper, the background, set-up, and a preliminary analysis of the survey conducted by the FIG joint commission 3 and 7 working group on 3D-Cadastre, 2010-2014 is presented. The purpose of the survey is to make a world-wide inventory of the status of 3D-Cadastres at this moment (November 2010) and the plans/expectations for the near future (2014). Sharing this information improves cooperation and exchange of experiences and supports future developments in different countries and cadastral jurisdictions. The FIG working group will repeat the survey in four years time to evaluate the actual progress. In the questionnaire the concept of 3D-Cadastres with 3D parcels is intended in the broadest possible sense. At the moment of writing, 36 completed questionnaires have been received. Another detailed questionnaire survey is being conducted among the eight cadastral jurisdictions of Australia, and the results from these are also presented and compared to the international situation. At the moment of writing, all completed Australian questionnaires have been received.

[Mapping Land Degradation and Desertification by](#) by Jeff Thurston

The connection between desertification and water management is often not explored, and the meetings (between Cambodia & the UN) provided additional opportunities to discuss land management in a more holistic fashion.

Source: Asian Surveying & Mapping

[Cadastres, Nations and States](#) by Paul van der Molen

The work of land surveyors and land registrars can be seen in a context of state and nation building

Source: Coordinates monthly magazine

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[Our Kids Need To Know More About Geography!](#) by Lisa Manzione

“Geography is about a lot more than just memorizing where countries are on a map,” said Manzione. “It’s about understanding the cultures that go along with each country and the process for understanding those cultures has to start early. If our children are going to thrive in the newly globalized economy, and prepare for the nearly 70,000 new jobs geotechnology is adding to the U.S. each year, they need this program. In addition, they’ll be more well-rounded individuals if they accept that the United States isn’t the center of the universe and that there are other places on the map worth knowing about.”

Source: The American Surveyor

[Online Map Games To Encourage and Engage Your Geographic Awareness](#) by Gretchen Peterson

This article showcases some of the interactive maps that are scattered around the Web. They aren’t known for their cartographic excellence by any means.

Source: GISUser

[Application of GIS in public transit network planning](#) by Vimal Gahlot & B.L.Swami

In this era of information technology GIS has emerged as a versatile tool. GIS is a specific integrated system of hardware, software and procedure designed to support capture, management, manipulation, analysis and display of spatially referenced data for solving complex planning and management problems. It has been employed for integration of spatial and non-spatial data. It can be applied to various services that are dependent on network like water supply, power supply, sewage, etc. So it could be of great help for transportation, engineering and planning also.

This paper is intended to illustrate applications of GIS in Mass Rapid Transit System Design, and introduce a case study of Jaipur, the capital city of Rajasthan State in India. The study relied on GIS to identify the Bus Rapid Transit Corridors in the study area.

Source: GeoSpatial World

[How NGOs Are Using Data Maps to Communicate Problems](#) by Andrew Turner

With their international reach, abundance of data, and lack of access to data scientists, NGOs can benefit greatly from being able to employ easy to use data analysis and mapping technologies.

Source: Huffington Post

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Books and Journals (including Videos and Web publications)

[Australian Geology spatial news](#)

Developed by CSIRO and AuScope in collaboration with other research organisations around the country, a new open-access network of geospatial data, and its supporting infrastructure – the Spatial Information Services Stack (SISS) – will enable users to explore Australia’s geology on a national scale.

Thanks to Ross Johnson for this item

[Smart Measures](#) – electronic magazine for construction of tunnels

[NIMLI \(National Infrastructure for Managing Land Information\) AUSTRALIA](#) – [May update](#)

[LiDAR News, Vol 1, No 9](#)

[The fourth episode of the Geospatial Revolution Project has been released](#)

Source: GIS Lounge [Thanks to Wonkug Baek for this item]

[Think Quarterly](#) – Google’s new on-line magazine

[Coordinates](#) monthly magazine

[SERVIR-Africa community news](#)

- entries posted in April 2011

- New systems developed to study water quality and eutrophication

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- FAO Modeling System for Agricultural Impacts of Climate Change
- Call for papers: Geospatial applications in disease surveillance
- SumbandilaSat providing valuable imagery
- Latest SDI-Africa newsletter (April 2011)
- Assessment of accuracy of volunteered road map production in western Kenya

[The American Surveyor newsletter](#) (25 May) and [11 May](#)

[GISuser - GIS and Geospatial Technology News](#)

[Rwanda releases trade atlas](#)

The Ministry of Trade and Industry, Rwanda, in partnership with the German Development Cooperation (GDC) launched the first ever Rwandan economic and trade atlas. It contains compilation of information from various sectors in the country based on official data. It also incorporated state-of-the art techniques like GIS for the presentation of findings.

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Just for Fun!

[World's LARGEST indoor photograph](#) Strahov Library - 40 Gigapixels

This 360° Panorama is the largest indoor Photo in the world as of March 2011. This image was created from 3,000 individual photos stitched together into a single image that is 280,000 x 140,000 pixels. That's around 40 gigapixels, or 40,000 megapixels. If you printed this photo it would be 23 meters (or 78 feet) long! To control this image, use the controls on the screen or click and hold your mouse button on the photo, and move your mouse around. To zoom in and out, use your mouse wheel, or the "Shift" and "Control" keys. Be sure to zoom in all the way to see the full detail of the photo!

Source: 360 Cities

For an 80 Gigapixel panorama of London, click [HERE](#)



[Amateur astrophotographer captures entire night sky in 37440 exposures](#)

The Photopic Sky Survey is a 5,000 megapixel photograph of the entire night sky stitched together from 37,440 exposures. Large in size and scope, it portrays a world far beyond the one beneath our feet and reveals our familiar Milky Way with unfamiliar clarity. When we look upon this image, we are in fact peering back in time, as much of the light—having traveled such vast distances—predates civilization itself.

Source: The Melbourne AGE and <http://skysurvey.org/>



[Land surveyor sets out to be first to top Everest](#)

For the past 20 years, he has dedicated his life to studying and working as a land surveyor in his home country of Nepal. But even with his two degrees, various certifications and professional experience under his belt, Janek Guantam wanted more. So he applied for the Geodasy and Geomatics graduate program at the University of New Brunswick, which he began last May.

His special goal is to not only hike Mount Everest - the world's tallest mountain - but to use his meticulously precise techniques of triangulation to determine the exact height of this roughly 8,000-metre mountain, last mapped in 1998.

Source: [CanadaEast.com](#) and [Asian Surveying & Mapping](#)

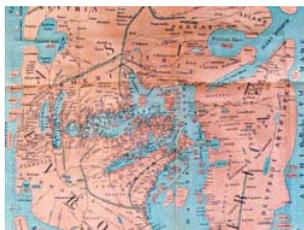
[This Class of Geography Students Found Bin Laden's Hideout Long Before the CIA](#)

Two years ago, a class of UCLA undergrads pretty accurately predicted the the location where Osama Bin Laden was hiding out.

Source: Good Worldwide

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World of maps at your fingertips



Massimo De Martini's face assumes a look of concentrated pleasure as he slips the delicate sheet of paper, 16in by 27in, from its protective plastic sleeve. He spreads the page carefully across a leather bureau top. It's a map of the world, printed in Florence in 1482. It smells musty, with a citrus top note, and it will be one of the star attractions at the London Map Fair. It would set you back about £120,000. De Martini says he's open to negotiation. We now know vastly more about the world than Abraham Ortelius, who etched and printed the world's first modern atlas — but the mystique, and value, of historic maps

remains potent.

Source: Times of Oman

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Training Opportunities

Summer School “Advanced Spatial Data Infrastructures”, Leuven, Belgium

This event will take at the Irish College in Leuven between 8 and 15 July 2011, and is organised by the University of Melbourne (Australia), Leuven University and Brussels University (both Belgium), and supported by Global Spatial Data Infrastructure (GSDI) Association. The key objective of this Summer School is to enhance the knowledge about the current developments in the field of spatial data infrastructures.

gvSIG Training platform opens with a first course for gvSIG users

The gvSIG Association tries to increase its learning offer through online courses, publishing a new learning platform: gvSIG Training. In parallel, the gvSIG Association launches its official certification program.

It's a step forward in the training processes in free geomatic, creating an online training centre, that contributes to the spreading as well as to the sustainability of the gvSIG project. Training without geographic barriers, and with the best professionals.

In this platform, you will find courses in several languages to learn to use the different applications of the gvSIG project, in a user level as well as in a developer one. The courses list will be extended gradually with different gvSIG and free geomatic specialization courses (databases, map servers...), with the objective of covering the different needs of the Community.

The courses offered by gvSIG Training are part of the training routes that are required to obtain the gvSIG official certification.

For further information:

- gvSIG Training: <<http://gvSIG-training.com/>>

- gvSIG Certifications: <<http://www.gvsig.com/services/certification>>

GIS Courses by Distance Education

NSW Riverina Tafe

The courses listed below are all full Geographic Information Systems courses which can be studied over a number of semesters by distance study pathways.

[Certificate III in Spatial Information Services \(GIS\)](#)

[Certificate IV in Spatial Information Services \(GIS\)](#)

[Diploma of Spatial Information Services \(GIS\)](#)

Source: [NSW River](#)

Participatory Spatial Information Management and Communication Training Kit now available on-line

Co-published by CTA and IFAD in English and Spanish, the Training Kit is a unique product that can be tailored to meet user needs, ensuring that employees get the best training available on Participatory Spatial Information Management and Communication.

The online version was launched at the beginning of March 2011. The DVD version was launched in December 2010. The Training Kit contains 15 Modules, each presented through a series of Units. Modules cover the entire spectrum of good developmental practice – from mobilising communities to developing a communication strategy based on the outcome of participatory mapping activities. The Modules touch on topics such as the fundamentals of training, ethics and community groundwork and processes as well as the more technical low-, mid- and high-tech participatory mapping methods.

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Users decide what they want to cover and when. The product has been developed using the Multimedia Training Kit (MMTK) approach – which allows you to pick and choose those Modules, Units and components that best suit your particular requirements and develop a curriculum to suit your specific needs.

Publishers: Technical Centre for Agricultural and Rural Co-operation ACP-EU (CTA), Wageningen, The Netherlands and International Fund for Agricultural Development (IFAD), Rome, Italy

Source: [The Centre for Agricultural and Rural Cooperation](#)

[Educational webinars for the Geospatial Professional](#)

Online delivery of educational material is convenient, affordable, and can be entertaining as well as informative. The following are a few opportunities that the Geo professional might wish to take advantage of in the near future:

Esri will host the free live training seminar "Using ArcGIS Data Reviewer to Assess Data Quality" on June 16, 2011

From Esri... During the seminar, Learn about tools that allow you to automate, centrally manage, and improve your GIS data quality control processes. [See Details HERE](#)

Note: Esri also has a fine archive or [previously recorded sessions](#), definitely worth a look

LizardTech offers regular online training sessions. [See complete details HERE](#)

ERDAS offers regular online training and makes available a number of archived presentations. Browse the sessions for educational tips and tutorials designed to bring you up to speed with ERDAS IMAGINE, APOLLO and other solutions [Register HERE](#)

Blue Marble Geographics provides users and would-be users with an online knowledgebase. Enjoy this resource for a number of instructional videos and application demos. [See the knowledge base HERE](#)

Cartopac Field Solutions webinar – The Design & Deployment of an Enterprise Asset Data Collection Solution. Join CartoPac Field Solutions as they chat with Mark James, GIS Analyst with Chesapeake Midstream, about how their GIS and Survey groups executed a project to standardize asset field data collection and provide a direct connection to import that data into the enterprise geodatabase. Event takes place Wed June 1 – [Register HERE](#)

Data Solutions - Some interesting training for professionals in the NW portion of the USA. including AK, HI, ID, UT, MT, NV, and OR – Electronic Data Solutions is hosting a FREE webinar for professionals wanting to learn more about their innovative Trimble solutions for utilities and smart grid. The webinar is a live, interactive online event covering a new turn-key solution for utilities called Trimble Field Inspector. [Register HERE](#)

Safe software Webinars – An intro to FME Desktop, May 19, 2011 – Gain a better understanding of FME Desktop. This free introductory webinar will cover key features and capabilities of FME Desktop and common spatial data transformation scenarios, across GIS, CAD and other business systems. The company also provides a number of archived webinars for your viewing.

[Hyperspectral Data Analysis for Coastal Environmental Monitoring](#)

Source: GISUser

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Funding Opportunities, Awards, Grants

[Google Anita Borg Memorial Scholarship: Asia](#)

Through the Google ICT Scholarship, women are encouraged to excel in computing and technology and become active role models and leaders. Multiple scholarships will be awarded based on the strength of candidates academic performance, leadership experience and demonstrated passion for computer science. Each scholarship recipient will receive a \$3500 scholarship.

Eligibility requirements - candidates must:

- be a female student enrolled in full-time undergraduate or postgraduate study at an university
- be enrolled at an University in any of the following countries: Korea, Japan, Singapore, Thailand, Malaysia, Indonesia, Philippines, Vietnam.

Citizens, permanent residents, and international students are eligible to apply.

- be studying Computer Science, Software Engineering, or a closely related technical field.
- maintain an excellent academic record

Deadline for applications for the 2011 Anita Borg Memorial Scholarship: June 1, 2011.

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Employment Opportunities

Vacancy: Spatial Data Infrastructure/Technical Leader

LINZ's New Zealand Geospatial Office is continuing its exciting period of development and growth, and there are now several work streams in motion within its industry-wide work programme. This new leadership role requires a strong collaborator with great interpersonal skills. You will be engaging with a range of external stakeholders from central and local government, academia and the private sector, working towards several key deliverables, one of which is a national formal spatial data infrastructure by 2014.

To apply for this position please visit our Hot Jobs at <http://www.h2r.co.nz>, and refer to vacancy number 13892. Applications close 5pm Wednesday 18 May 2012. For further information please contact Joanna Schmelz on 04 4999 471 or jo@h2r.co.nz. All applications will be acknowledged by email.

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Conference Proceedings

"Nurturing 1 Malaysia through GIS" 17 March 2011

GIS Day is an annual program which is jointly organized by Malaysian Remote Sensing & GIS Society Student Chapter (MRSGISSC), Universiti Putra Malaysia (UPM) and also Malaysian Remote Sensing Society (MRSS).

[Speaker Biographies](#)

[2010 Esri Survey and Engineering GIS Summit Proceedings](#)

Conferences, Events

For upcoming events of global or major international interest, please visit the [upcoming conference list](#) on the GSDI website – as this conference list will be reserved for conferences within or with specific interest to the Asia Pacific Region.

The editors welcome news of conferences & events from the newsletter subscribers

[Call for Expression of Interest to host AARSE 2014 and future Conferences](#)

Call for Expression of Interest to host the 10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE) in October 2014 and future Conferences. The 9th conference will be held in Morocco in October 2012.

Date	Location	Event
June 2011		
4 June	Sydney, Australia	"whereNSW" Camp -The all day spatial camp will be held Sydney on Saturday, 4 June 2011. NSW Location Intelligence Strategy The NSW Government is developing a high level, whole-of-government strategy to plan and manage spatial information, infrastructure and services across NSW. The team will be encouraging participation and consultation through a range of channels, including • Engagement with NSW Spatial Council • Online consultative tools • "whereNSW" Camp • Targeted one-on-one stakeholder interviews • NSW Location Intelligence Strategy Thought Leadership Forum.
6 – 9 JUNE	Orlando, USA	Hexagon 2011 Session titles and speaker names for more than 50 timely presentations are now posted online for the mapping and positioning industry's most anticipated conference of 2011.
14 June	Washington, D.C	Forum On Earth Observations V

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15 – 17 JUNE	Munster, Germany	<u>GEOINFORMATIK 2011</u>
16 June “NEW”	Sydney, Australia	<p><u>What is GeoRabble?</u> GeoRabble is about celebrating the everyday challenges and triumphs of working with location. Everything from the mundane to the glamorous, unfiltered by professional bodies, government and private company agendas and industry politics.</p> <p><u>GeoRabble2</u> An evening to share geo-ideas, full of fun, and free of sales-pitches. Date: Thursday 16th June, 2011 Time: Doors open 5.30pm, talks from 6.30pm Location: Upstairs at the The Shelbourne Hotel, 200 Sussex Street, Sydney CBD Format: Two half-hour blocks of short (10 minute) talks, followed by discussion/networking <u>Registration: Attendance is free</u></p>
20 – 23 JUNE	University of Cantabria, Santander, Spain.	<p><u>"Cities, Technologies and Planning" CTP 11</u> in conjunction with <u>The 2011 International Conference on Computational Science and its Applications (ICCSA 2011)</u></p>
21 – 22 JUNE	University of Nottingham, UK	<p><u>Third Open Source GIS UK Conference - OSGIS 2011</u> The <u>Provisional agenda</u> for the Conference is now available.</p>
21 – 23 JUNE	Dijon, France	<p><u>The International Conference on Digital Information and Communication Technology and its Applications (DICTAP2011)</u> Université de Bourgogne For inquires, please send email to <u>di@sdiwc.net</u></p>
22 – 24 JUNE	Kuala Lumpur, Malysai	<p><u>SEASC and ISC 2011</u> The 11th South East Asian Survey Congress and the 13th International Surveyors' Congress. The theme "Innovation towards Sustainability", in conjunction with the Institution of Surveyors Malaysia's 50th year celebrations.</p>
27 – 29 JUNE	<u>Universiti Malaysia Pahang,</u> Malaysia	<p><u>ICSECS 2011 (Malaysia)</u> The Second International Conference on Software Engineering and Computer Systems (ICSECS2011)</p>
28 June - 7 July	Melbourne, Australia	<p><u>XXV IUGG General Assembly</u> Earth on the Edge: Science for a sustainable Planet The IUGG 2011 Scientific Program Committee invites the submission of abstracts on original work to be considered for oral or poster presentation at the IUGG 2011 General Assembly <u>Contact</u> <u>Download Brochure</u></p>
28 June - 7 July	Melbourne, Australia	<p><u>IAG General Assembly</u> <u>Download Brochure</u></p>
29 June - 1 July	Fuzhou, China	<p><u>ICSDM 2011 & BJ-IWGIS 2011</u> IEEE International Conference on Spatial Data Mining and Geographical Knowledge Services (ICSDM 2011) – AND - Beijing International Workshop on Geographical Information System (BJ-IWGIS 2011) The conference theme is "Bridging the Gap Between Spatial Information Technology and Geoscience Research". One of the keynote addresses is titled "<u>SDI and Digital Asia as Information Commons.</u>"</p>
July 2011		
3 - 8 July	Paris	<p><u>25th International Cartographic Conference.</u> 15th General Assembly of the International Cartographic Association (ICA) Contact: <u>regist-icc2011@europa-organisation.com</u></p>

5 – 8 July	Salzburg, Austria	GI Forum 2011
6 – 8 July	Islamabad, Pakistan	<p>Call for papers at the 3rd International Conference on Advances in Space Technologies (ICAST)</p> <p>This conference will focus on the use of space technologies for hydrologic disasters & climate change research. ICAST will raise awareness on the applications of space-borne sensors for hydro-meteorologic extremes, water resources management and climate change studies. This conference will improve international collaboration on scientific and technical research on emerging issues of the region.</p> <p style="text-align: right;">Contact – OR – Contact#2</p> <p>Registration</p>
7 – 9 July	Ostrava, Czech Republic	<p>The International Conference on Digital Information Processing and Communications</p> <p>Registration: May 03, 2011</p>
7 – 12 July	San Diego	Esri and ACSM - Event for Surveyors and Mapping Professionals
11 – 15 July	San Diego	ESRI International USER CONFERENCE
11 – 13 July	Macau	3rd International Conference on Networked Digital Technologies (NDT 2011)
12 – 15 July “NEW”	Islamabad, Pakistan	<p>COMSTECH – ISESCO Expert Meeting for Development of Data Sharing Platform and Technical Experience-sharing for Cost-effective Operation & Maintenance of National Satellite Earth Stations</p> <p>The focus of the meeting will be discussion on activities of ground segments of remote sensing and communication satellites including communication with satellite; tasking and controlling of satellite; downloading of satellite telemetry; processing and archiving; backup procedures; and trouble shooting in case of operational problems.</p>
19 – 22 July	Ulaanbaatar, Mongolia	<p>17th Meeting of the Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP)</p> <p>- held in conjunction with 4th International Land Administration Forum</p> <p>The aims of PCGIAP are to maximize the economic, social and environmental benefits of geographic information in accordance with Agenda 21 by providing a forum for nations from Asia and the Pacific to:</p> <ol style="list-style-type: none"> a. cooperate in the development of a regional geographic information infrastructure; b. contribute to the development of the global geographic information infrastructure; c. share experiences and consult on matters of common interest; and d. participate in any other form of activity such as education, training, and technology transfer. <p>For further information, contact host, Mr. Ariunbold or Jane Hong.</p>
19 – 22 July	Mayagüez, Puerto Rico	Surveying and Geomatic Educators Society Biannual Conference
20 - 22 July	London, UK	<p>The International Conference on Digital Enterprise and Information Systems(DEIS2011)</p> <p>Registration: May 5, 2011</p>
21 – 22 July	Rio de Janeiro, Brazil	THE THIRD INTERNATIONAL CONFERENCE ON CLIMATE CHANGE: IMPACTS AND RESPONSES
28-29 July	National University of Singapore, Singapore	<p>Remote sensing, natural hazards and environmental change 2011</p> <p>This conference is organized by the Centre for Remote Imaging and Sensing (CRISP), National University of Singapore; Laboratoire</p>

		<p>Magmas et Volcans (LMV), Université Blaise Pascal; and the Working Group for Large Rivers and Climate Change, International Association of Gemorphologists.</p> <p>The conference is designed to initiate informal discussion and paper presentation in two areas that are significant for the Asia Pacific Region and especially Southeast Asia. First of these involve natural hazards with emphasis on volcanoes, earthquakes, tsunamis and large floods. The second concerns environmental changes including climate change, modification of hydrological and geological processes and urbanization. The application of remote sensing in both observing such phenomena and ameliorating their non-beneficial effects will be emphasized. The conference provides a forum for exchange of views among researchers currently working in this area and for designing research strategies for the future.</p> <p>Liew Soo Chin, CRISP, NUS; Jean-Claude Thouret, LMV, Blaise Pascal; Avijit Gupta, Large Rivers and Climate Change, IAG</p>
August 2011		
3 – 4 August	Kampala, Uganda	<p>1st Conference on Advances in Geomatics Research</p> <p>The Department of Geomatics and Land Management, Makerere University invites you to the 1st Conference on Advances in Geomatics Research to be held from the 3rd – 4th of August 2011 at the CEDAT Conference Hall – Makerere University Kampala, Uganda. The theme of the conference is “Geomatics Research for Sustainable Development”. The theme seeks to bring to the fore Geomatics research and practice taking place internationally, regionally and locally in Uganda. The conference essentially seeks to highlight, promote, share and encourage scholarship in the various Geomatics sub-disciplines such as Geographical Information Systems (GIS), Remote Sensing, Engineering Surveying, Global Navigation Satellite Systems (GNSS) Geodesy, Land Management etc.</p> <p>The conference will include preconference workshops, plenary and technical sessions.</p> <p>Contact: Moses Musinguzi - Head Geomatics and Land Management Department – OR – Anthony Gidudu - Organising Committee Chair</p>
5 - 7 August	Washington, DC USA	THIRD INTERNATIONAL CONFERENCE ON SCIENCE IN SOCIETY
8 - 10 August	Taipei	AOGS 2011 Geosciences World Community Exhibition The Geosciences World Community Exhibition will be held in conjunction with the 8th Annual Meeting of the Asia Oceania Geosciences Society (AOGS)
15 - 19 August	Nairobi, Kenya	AGSE 2011
17 - 19 August	Rio de Janeiro, Brazil	Latin American Geospatial Forum
23 – 25 August	Perth, Australia	7th International Symposium on Digital Earth (ISDE7) Held in conjunction with WALIS Forum 2011 and the 2011 NRM Conference . Registration is now OPEN . The Australia Brazil Canada China Consortium will convene a workshop, as will the CRC for Spatial Information .
September 2011		
9 – 11 September	Denver, Colorado	State of the Map (SotM)
12 – 16 September	Denver, Colorado	FOSS4G 2011

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18 – 22 September “NEW”	Amman, Jordan	ISNET / RJGC Workshop on Applications of Satellite Technology in Water Resources Management The workshop would comprise presentations by participants, topic-specific lectures by experts and hands-on training which will focus on building capabilities in use of SRS techniques for water exploration. The main focus of the workshop is sharing of knowledge, experiences and update relevant OIC researchers on water resources exploration. Important dates Last date for abstract submission & applications 05 July Intimation of selection 03 August Last date for sending full papers & presentations 18 August
28 – 30 September	The Delft, Netherlands	UDMS 2011
October 2011		
6 – 7 October “NEW”	Melbourne, Australia	Celebrating ten years of research and achievement Celebrating 10 Years (2001-2011)  Established in 2001, the CSDILA has been contributing to national and international knowledge and practise in the domain of Land Administration, SDI and spatial enablement for ten years. To celebrate ten years of research the CSDILA is proud to host a two day event titled “Beyond Spatial Enablement” to be held in Melbourne, October 2011 to discuss the future directions of spatial enablement.
17 – 19 October “NEW”	Jakarta, Indonesia	Map Asia is now rebranded as Asia Geospatial Forum . Contact For information on paper submission
20 - 21 October	Guilin, China	ISPRS Workshop on Geospatial Data Infrastructure: From data acquisition and updating to smarter devices 2011 Contact Deadline for abstracts: CLOSED The objective of the workshop is to provide a platform for scholars and professionals in relevant areas to exchange research ideas and interests, to present the newest research results, to discuss the cutting-edge technology, and to promote the development and application of SDI and the international collaboration.
24 - 27 October	Seoul, Korea	United Nations Forum on Global Geospatial Information Management (GGIM)
25 th – 28 th “NEW”	Paris, France	FIG Commission 3 Workshop - The Empowerment of Local Authorities: Spatial Information and Spatial Planning Tools Website
November 2011		
14 – 18 November	Santiago, Chile	UGI 2001 International Geographic Union “Regional Geographic Conference” Brochure & Call for Papers Contact
15 – 17 November	Canberra, Australia	Spatial@Gov2011
21 – 25 November	Wellington, New Zealand	Surveying & Spatial Sciences Conference 2011
29 November – 2 December	University of Melbourne, AUSTRALIA	The State of Australian Cities Key Dates Full papers due 06 MAY 2011 Reviewed papers returned 01 JUL 2011 Early registration closes 29 JUL 2011

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		Final papers due 31 OCT 2011
December 2011		
5 - 7 December	Hue City, Vietnam	<p>The 9th International Conference on Advances in Mobile Computing and Multimedia (MoMM2011) 15 July 2011: Full Papers (8 pages), Short papers, Demos and work in progress (5 pages) 15 September 2011: Acceptance Notification 15 October 2011: Camera-Ready Papers and Authors Registration The submitted papers should not exceed 8 pages and must follow the ACM guidelines. Contact</p>
11 – 14 December “NEW”	Abu Dhabi, UAE	<p>CALL FOR PAPERS The 6th International Conference for Internet Technology and Secured Transactions (ICITST-2011) The ICITST is an international refereed conference dedicated to the advancement of the theory and practical implementation of secured Internet transactions and to fostering discussions on information technology evolution. The ICITST aims to provide a highly professional and comparative academic research forum that promotes collaborative excellence between academia and industry. Full Paper Submission Date: June 30, 2011 Extended Abstract (Work in Progress) Submission: July 31 Early Registration Deadline (Authors only): September 30, 2011 Late Registration Deadline (Authors only): November 15, 2011 Participants Registration: May 01 to December 01, 2011 For more details</p>
January 2012		
10 – 12 January “NEW”	University of BC, Vancouver, Canada	<p>Eighth International Conference on Environmental, Cultural, Economic and Social Sustainability.</p>
16 – 18 January “NEW”	UCLA, Los Angeles, USA	<p>EIGHTH INTERNATIONAL CONFERENCE ON TECHNOLOGY, KNOWLEDGE AND SOCIETY Presenters may choose to submit written papers for publication in the fully refereed International Journal of Technology, Knowledge and Society. If you are unable to attend the conference in person, virtual registrations are also available which allow you to submit a paper for refereeing and possible publication in this fully refereed academic Journal. The deadline for the next round in the call for papers (a title and short abstract) is 14 June 2011.</p>
May 2012		
13-17 May	Quebec City, Canada	<p>2012 Joint World Conference GSDI 13 and Canadian Geomatics Conference (CCC) hosted by GEOIDE Network GSDI 13 invites presentations/papers covering the full range of practice, development and research experiences that advance the practice and theory of spatial data infrastructure development and spatial enablement of society. GSDI 13 will support three primary forms of publication: (1) a normal conference proceedings with abstracts and full articles (non-refereed and refereed), published on a CD, (2) a pre-conference published book of fully refereed articles, and (3) a post-conference special edition of the International Journal of Spatial Data Infrastructures Research (IJSDIR) with full articles selected from the proceedings and then fully refereed and revised after the conference.</p>

August 2012		
25 August – 1 September	Melbourne, Australia	XXII International Society for Photogrammetry & Remote Sensing Congress Email: jsprs2012@icms.com.au
October 2012		
	Morocco	10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE)
2014		
	Malaysia	Malaysia will be hosting the (International Federation of Surveyors) FIG Congress in 2014. The decision was taken at the recently concluded FIG Congress 2010 in Sydney, Australia.

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