

**2012 Digital Earth Workshop WS-1**  
**The Applications of Object Oriented Image Classification on Mapping**  
 物件導向影像分類製圖應用

**May 14 (Monday), 2012**  
 Room 802, Ta-Hsiao Building, Chinese Culture University  
 中國文化大學大孝館 8 樓 802 室

Time	Agenda
09:30~10:10	Registration
10:10~11:00	<p><b>Topic :</b> New Development of Image Classification Techniques                      影像分類科技新發展</p> <p><b>Speaker :</b> Prof. Yea-Chung Ding 丁亞中教授                      Dept. of Geography, Chinese Culture University                      中國文化大學地理學系</p>
11:00~11:10	Coffee Break
11:10~12:00	<p><b>Topic :</b> A Case Study of Object Oriented Image Classification Applications                      物件導向影像分類應用實例</p> <p><b>Speaker :</b> Prof. Wei-Bin Chen 陳維斌教授                      Dept. of Urban Affairs and Environment Planning                      中國文化大學市政暨環境規劃學系</p>
12:00~13:10	Lunch Time
13:10~14:40	<p><b>Practice (1):</b> Object Oriented Image Classification in Practice                      物件導向影像分類實機操作練習</p> <p><b>Hosted by :</b> Ms. Wei-Jun Chen 陳微鈞 資深經理                      RiChi Technology Inc. 瑞竣科技股份有限公司</p>
14:40~14:50	Coffee Break
14:50~16:20	<p><b>Practice (2):</b> Object Oriented Image Classification on Mapping                      物件導向影像分類製圖實作</p> <p><b>Hosted by:</b> Prof. Yea-Chung Ding 丁亞中教授                      Dept. of Geography, Chinese Culture University                      中國文化大學地理學系</p> <p><b>Assistant:</b> Mr. Qun-Lun Guan 官群倫                      Postgraduate, Graduate Institute of Earth Science/ Geography,                      Chinese Culture University</p>

**2012 Digital Earth Workshop WS-2**  
Automation on Digital Surveying Technique  
自動化數值測繪科技

**May 15(Tuesday), 2012**  
Room 802, Ta-Hsiao Building, Chinese Culture University  
中國文化大學大孝館 8 樓 802 室

Time	Agenda
09:30~10:10	Registration
10:10~11:00	<p><b>Topic :</b> New Development of Digital Surveying Instruments 自動化測繪儀器新發展</p> <p><b>Speaker :</b> Prof. Yea-Chung Ding 丁亞中教授 Dept. of Geography, Chinese Culture University 中國文化大學地理學系</p>
11:00~11:10	Coffee Break
11:10~12:00	<p><b>Topic :</b> Introduction of Moving Surveying System 車載移動測繪系統介紹</p> <p><b>Speaker :</b> Prof. Tian-Chyuan Chan 詹添全教授 Dept. of Architecture and Urban Design, Chinese Culture University 中國文化大學建築及都市設計學系</p>
12:00~13:10	Lunch Time
13:10~14:40	<p><b>Practice (1):</b> Moving Surveying System in Practice 車載移動測繪系統實機操作</p> <p><b>Hosted by :</b> Prof. Tian-Chyuan Chan 詹添全教授 Dept. of Architecture and Urban Design, Chinese Culture University Culture University 中國文化大學建築及都市設計學系</p>
14:40~14:50	Coffee Break
14:50~16:20	<p><b>Practice (2):</b> Digital Surveying Instrument Field Work 自動化測繪儀器實地操作</p> <p><b>Hosted by:</b> Mr. Hong-Sheng Chen 陳鴻聖經理 <b>Century Instrument Co. Ltd. 森泰儀器有限公司</b></p> <p>Prof. Yea-Chung Ding 丁亞中教授 Dept. of Geography, Chinese Culture University 中國文化大學地理學系</p>

<b>2012 Digital Earth Workshop WS-3</b> Novel Geospatial Information Architecture and Methods 創新的地理空間資訊架構與處理方法	
May 16 <sup>th</sup> , 2012(Wednesday) 3F Computing Room, the Building for Humanities & Social Sciences, Academia Sinica 中央研究院人文館 3 樓遠距會議室暨電腦教室	
Time	Agenda
09:10~09:30	Registration
09:30~10:50	<b>Keynote: Research Challenges and Opportunities for Geospatial Cyberinfrastructure and Mapping Cyberspace</b> Speaker: Professor Ming-Hsiang Tsou 鄒明祥教授 Dept. of Geography, San Diego State University Chair: Dr. Tyng-Ruey Chuang 莊庭瑞博士 Research Center for Information Technology Innovation, Academia Sinica 中央研究院資訊科學研究所
10:50~11:10	Coffee Break
11:10~12:00	<b>Topic: An Ontology-based Approach for Handling Volunteered Geographic Information</b> Speaker: Mr. Dongpo Deng 鄧東波先生 Research Assistant for Institute of Information Science, Academia Sinica 中央研究院資訊科學研究所
12:00~13:30	Lunch Time
13:30~14:20	<b>Topic: Ecological Data Management and Sharing Using Semantic Link: A New Approach</b> Speaker: Mr. Kuan-Shuo Mai 麥館碩先生 Research Assistant of Biodiversity Research Center, Academia Sinica. 中央研究院生物多樣性研究中心
14:20~15:10	<b>Topic: The Comparison between Cloud Computing and Grid Computing prospected on GIS Application</b> Speaker: Mr. Hsiung-Ming Liao 廖滋銘先生 Assistant Research Specialist, , Research Center for Humanities and Social Sciences, Academia Sinica 中央研究院人文社會科學研究中心
15:10~15:30	Coffee Break
15:30~16:20	<b>Topic: Data Management and Research Infrastructure</b> Speaker: Mr. Eric Yen 嚴漢偉先生 Associate Research Engineer · Research Center for Information Technology Innovation, Academia Sinica 中央研究院資訊創新研究中心

**The 8<sup>th</sup> Taipei International Digital Earth Symposium**  
**May 17, 2012**

中國文化大學大孝館8樓 柏英演藝廳 8F, Ta-Hsiao Building, Chinese Culture University	
9:00~9:30	Registration
9:30~10:00	Opening Ceremony / BoYing Conference Hall
10:00~10:20	Coffee Break
10:20~11:10	<p><b>Keynote (k-1): Integrating Spatial and Statistical Data at the U.S. Census Bureau</b>  <b>Speaker:</b> Ms. Deirdre Bishop USA            Geographic Operations Advisor, Geography Division, U.S. Census Bureau  <b>Chairperson:</b> Dr. Andrew Kwong-Fai Lo, Dean of College of Science, Chinese Culture University</p>
11:10~12:00	<p>Keynote(K-2): <b>Digital Cultural Landscape: past, present and future</b>  <b>Speaker:</b> Prof. Sung-Kyun Kim Korea            Dept. of Landscape Architecture, College of Agriculture and Life Sciences,            Seoul National University, Korea  <b>Chairperson:</b> Chung-Hsin Yang, Dean of College of Environmental Design , Chinese Culture University</p>
12:00~13:30	Lunch Break
中國文化大學大孝館3樓 堅毅廳 JiangYi Conference Hall, 3F, Ta-Hsiao Building, Chinese Culture University	
13:30~14:20	<p>Keynote (k-3):<b>Mapping Social Media and Diffusion of Innovations on Digital Earth: Revealing the Invisible World</b>  <b>Speaker:</b> Prof. Ming-Hsiang Tsou,            Dept. Of Geography, San Diego State University. USA</p>
14:20~14:40	Coffee Break

	Room 803	Room 804	Room 805	Room 806
14:40~16:10	<p>Oral Presentation (1) in English Digital Earth Technologies</p> <p>Chairperson: Prof. Yea-Chung Ding 丁亞中教授 Department of Geography, Chinese Culture University</p>	<p>Oral Presentation (2) Digital Earth Technologies</p> <p>Chairperson: Prof. Hui-Chung Yeh, 葉惠中教授 Department of Natural Resource, Chinese Culture University</p>	<p>Oral Presentation (3) Social Science &amp; Education</p> <p>Chairperson: P rof. Shih-Che Huang 黃士哲教授 Center for General Education, National Formosa University</p>	<p>Oral Presentation (4) Natural Environmental Resources</p> <p>Chairperson: Prof. Chaur Tzuhn Chen 陳朝圳教授 Dept. of Forestry, National Pingtung University of Science and Technology</p>

# The 8<sup>th</sup> Taipei International Digital Earth Symposium

## May 18, 2012

9:00~9:30	Registration			
中國文化大學大孝館 2 樓質樸廳 ZiPu Conference Hall, 2F, Ta-Hsiao Building, Chinese Culture University				
9:30~10:20	Keynote(K-4) FORMOSAT-5 : Taiwan's Next-Generation Earth Observation Satellite 福爾摩沙衛星五號 – 台灣新一代地球觀測衛星 Speaker: <b>Dr. Guey-Shin Chang</b> 張桂祥主任 Taiwan, R.O.C. Director in General, National Space Organization, National Applied Research Laboratories Chairperson: Prof. Chih-Hong Sun 孫志鴻董事長 President, Taiwan Geographic Information System Center			
10:20~10:30	Coffee Break			
	<b>Earth Observation</b>	<b>Digital Earth Next Generation</b>	<b>Natural Resource</b>	<b>Nature Conservation</b>
	Room 803	Room 804	Room 805	Room 806
10:30~11:20	Invited Speech(1-1)  Speaker: <b>Dr. Cheng-Shang Lee</b> 李清勝主任 Taiwan Typhoon and Flood Research Institute (TTFRI), National Applied Research Laboratories Chairperson: Prof. Koung-Ying Liu 劉廣英教授	Invited Speech(1-2) <b>Topic: Our Strategic Directions</b> 我們的策略方向  Speaker: Prof. Shin Wang 王鑫教授 Graduate Institute of Earth Science / Geography, Chinese Culture University Chairperson: Prof. Jiun-Chuan Lin, 林俊全教授 Department of Geography, National Taiwan University	Invited Speech(1-3) Topic: The Overview of and Prospect of Global Land Project 全球土地計畫之回顧與展望  Speaker: Prof. Hwa-Lung Yu 余化龍教授 Dept. of Sustainable Environment, National Taiwan University Chairperson:	Invited Speech(1-4)  Speaker: Dr. T. Y. Aleck Yang 楊宗愈教授 Associate Curator, Vascular Plants Section, National Museum of Natural Science Chairperson:

	Room 901	Room 803	Room 804	Room 805	Room 806
11:20~12:10	Panel Discussion I	<p>Invited Speech(1-5) Topic: Searching for Cosmic Neutrinos at South Pole 遠征地球最邊緣·探索宇宙最邊緣-到南極搜尋宇宙微中子 Speaker: Prof. Pisin Chen 陳丕燊教授 Dept. of Physic, National Taiwan University Chairperson: Prof. Hsin-Chien Huang 黃信健教授 Deaprtment of Optoelectronic Physics, Chinese Culture University</p>	<p>Invited Speech(1-6) Topic: Issues for the Next Generation Digital Earth 數位地球新議題  Speaker: Yea-Chung Ding 丁亞中教授 President, Chinese Cartographic Association  Chairperson : Prof. Tzu-How Chu 朱子豪教授 Department of Geography, National Taiwan University</p>	<p>Invited Speech (1-7) Topic: Ecoinformatics: A New Paradigm for Biodiversity and Ecology Research 生態資訊：生物多樣性與生態研究新典範  Speaker:Dr. Chau-chin Lin 林朝欽博士 Senior Researcher, Taiwan Forestry Research Institute Chairperson:</p>	<p>Invited Speech (1-8) Topic: A Framework for Landscape Assessment of Important Wetlands in Taiwan 台灣重要濕地地景評估架構  Speaker: Prof. Hsing-Juh Lin 林幸助教授 Distinguished Professor &amp; Dept. Chairman, Dept of Life Sciences, National Chung Hsing University Chairperson: Prof. Shyue-Cherng Liaw, 廖學誠教授 Department of Geography, National Taiwan Normal University</p>
12:10~13:30	Lunch Break				

	Room 803	Room 804	Room 805	Room 806
13:30~14:20	<p>Invited Paper(1) Topic: Earth Observation Using Constellation Satellites Carrying Radio Occultation Receivers</p> <p>Speaker: Dr. Nick L. Yen, National Space Organization (NSPO), Taiwan Chairperson: Prof. Tian-Yuan Shih 史天元 教授 Department of Civil Engineering, National Chiao Tung University</p>	<p>Invited Paper(2) Topic:</p> <p>Speaker: 謝雨潔教授 Chairperson: Prof. Flora Sheng-hua Cheng 鄭勝華教授 Department of Geography, Chinese Culture University</p>	<p>Invited Paper (3) Topic: Web-based 3D Display and Real World Application on Disaster Reduction</p> <p>Speaker: Dr. J.G. Lee, National Center for High-performance Computing Chairperson: Prof. Cheng-Chien Liu 劉正千教授 Department of Earth Sciences, National Cheng Kung University</p>	<p>Invited Paper (4) Topic: The Core Technology for Internet of Things &amp; Green Intelligent Building is discussed 物聯網與綠色智慧建築核心技術探討</p> <p>Speaker: Prof. Weiliang Lu, 陸偉良教授 Nanjing university of Technology, China Chairperson: Prof. Kuo-Chung Wen 溫國忠教授 Department of Architecture and Urban Design, Chinese Culture University</p>
14:20~14:40	Coffee Break			
14:40~16:20	<p>Oral Presentation (5) (in English) Earth Observation &amp; Technology</p> <p>Chairperson: Prof. Bing-Leung Sun 孫秉良教授 Department of Information Technology, Ching Kuo Institute of Management and Health</p>	<p>Oral Presentation (6) Digital Earth Technologies</p> <p>Chairperson: Dr. Jin-King Liu, 劉進金博士 LIDAR Technology Co., Ltd.</p>	<p>Oral Presentation (7) Social Science &amp; Education</p> <p>Chairperson: Prof. Ching Jen Kuo 高慶珍教授 Department. of Geography, Chinese Culture University</p>	<p>Oral Presentation (8) Natural Environmental Resources</p> <p>Chairperson: Prof. Tsai-Ming Lee, 李載鳴所長 Graduate Institute of Earth Science, Chinese Culture University</p>
16:30~17:00	Digital Earth Forum			