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Xiaojun Yang
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Opening Session
Qingxi Tong, Peking University (China)

Keynote Session I
Liqiu Meng, Technical University of Munich (Germany)

Keynote Session II
Jonathan Li, University of Waterloo (Canada)

Keynote Session III & IV
Xiaojun Yang, Florida State University (United States)

T01 Earth Observation Applications
Emilio Chuvieco, Universidad de Alcalá (Spain)
Qihao Weng, Indiana State University (United States)

T02-1 Land Use and Land Cover Changes I
Bo Huang, Chinese University of Hong Kong (Hong Kong, China)
Liangyun Liu, Center of Earth Observation and Digital Earth Science, CAS (China)

T05 Qinghai-Tibetan Plateau
Zhaoqiang Huang, Institute of Mineral Resources, China Metallurgical Geology Bureau (China)

T06-1 Earthquake Monitoring and Assessment I
Leung Yee, Chinese University of Hong Kong (Hong Kong, China)
Timo Balz, Wuhan University (China)

T03-1 Coastal and Marine Ecosystems I
Xiaojun Yang, Florida State University (United States)
Hongguo Jia, Southwest Jiaotong University (China)

T03-2 Coastal and Marine Ecosystems II
Wenrui Huang, Florida State University (United States)
Jiakui Tang, Yantai Institute of Coastal Zone and Sustainable Development, CAS (China)
T04 Snow, Ice, and the Polar Environment  
Hongxu Zhao, Canada Centre for Remote Sensing (Canada)  
Yuei-An Liou, National Central University (Taiwan, China)

SS1 Flood and Drought Monitoring and Forecasting  
Xiwu Zhan, NOAA-NESDIS Center for Satellite Applications and Research (United States)  
Jun Wen, Cold and Arid Regions Environmental and Engineering Research Institute, CAS (China)

T02-2 Land Use and Land Cover Changes II  
Qihao Weng, Indiana State University (United States)  
Robin Zhang, Murray State University (United States)

T02-3 Urbanization and Environmental Impacts I  
Wei Ji, University of Missouri-Kansas City (United States)  
Peijun Li, Peking University (China)

T10-1 Methods and Algorithms for Image Processing  
Yun Zhang, University of New Brunswick (Canada)  
Anthony Gidudu, University of the Witwatersrand (South Africa)

T10-2 Spatial Data Infrastructure & Spatial Analysis  
Fuqun Zhou, Canada Centre for Remote Sensing (Canada)  
Jirong Gu, Sichuan Normal University (China)

T06-2 Earthquake Monitoring and Assessment II  
Bing Zhang, Center for Earth Observation & Digital Earth, CAS (China)

T06-3 Earthquake Monitoring and Assessment III  
Yifang Ban, Royal Institute of Technology (Sweden)

SS2 Development and Applications of Satellite Land Surface Products  
Yunyue Yu, NOAA/NESDIS (United States)  
Qinhuo Liu, Institute of Remote Sensing Applications, CAS (China)

SS3 Detection, Monitoring, Modeling, Management, Control and Prevention of Forest Fires Using Geoinformation  
Yousif Ali Hussin, ITC—International Institute for Geo-Information Science and Earth Observation (The Netherlands)  
Sindh Rathaur, Indian Institute of Remote Sensing (India)

T02-4 Urbanization and Environmental Impacts II  
Carsten Juergens, Ruhr-University Bochum (Germany)  
Dongmei Chen, Queen’s University (Canada)
T02-5 Vegetation Mapping and Analysis I
Qiaofeng Zhang, Murray State University (United States)
Qingxu Huang, University of Waterloo (Canada)

T10-3 LiDAR
Uwe Stilla, Technical University of Munich (Germany)
Zhizhong Kang, China University of Geoscience, Beijing (China)

T10-4 Multi-Scale Representation and Cartographic Generalization
Keping Chen, Macquarie University (Australia)
Zhu Xu, Southwest Jiaotong University (China)

T07-1 Geodetic Techniques for Global Changes I
Qiming Zhou, Hong Kong Baptist University (Hong Kong, China)
Yongliang Xiong, Southwest Jiaotong University (China)

T07-2 Geodetic Techniques for Global Changes II
Wenbin Shen, Wuhan University (China)
Hong Liang, Yunnan University (China)

T08-1 InSAR for Subsidence Monitoring
Guoxiang Liu, Southwest Jiaotong University (China)
Wunian Yang, Chengdu University of Technology (China)

T08-2 Landslide
Lichun Sui, Chang’an University (China)
Butenuth Matthias, Technical University of Munich (Germany)

T02-6 Vegetation Mapping and Analysis II
Abdullah Al-misnid, University of Gassim (Saudi Arabia)
Anand Nandipati, Universidade Nova de Lisboa (Portugal)

T02-7 Environmental Monitoring and Assessment
Julian Smit, University of Cape Town (South Africa)
Xiaohui Yuan, University of North Texas (United States)

T10-5 GIS-Based Resource and Hazard Management
Jiren Li, China Institute of Water Resources and Hydropower Research (China)
Jiangping Shuai, Public Health Agency of Canada (Canada)

T09 GNSS for Disaster Management
Dingfa Huang, Southwest Jiaotong University (China)
Junping Chen, Helmholtz Zentrum Potsdam (Germany)
T07-3 Geodetic Techniques for Global Changes III
Kefei Zhang, RMIT University (Australia)
Zhigen Yang, Shanghai Astronomical Observatory, CAS (China)

T07-4 Geodetic Techniques for Global Changes IV
Hala Effat, National Authority for Remote Sensing and Space Sciences (Egypt)
Fuping Sun, Zhengzhou Institute of Surveying and Mapping (China)

T08-3 Flood & Drought
Xianfeng Zhang, Peking University (China)
Özgür Ertac, Technical University of Munich (Germany)

T08-4 Forecast and Monitoring I
Jun Li, University of Wisconsin-Madison (United States)

SS3 University Session: Education of Earth Observation and GIS
Fang Miao, Chengdu University of Technology (China)
Introduction

This volume contains selected papers presented at the 2nd International Conference on Earth Observation for Global Changes (EOGC2009) held on 25–29 May 2009 in Chengdu, China. The First International Symposium on Earth Observation of Global Changes was held in Madrid, Spain in 2006. In the future, the EOGC events will be held biennially and rotate between Asia, Europe, North America, and other continents. It has been planned that EOGC2011 and EOGC 2013 will be held in Munich, Germany and Toronto, Canada, respectively.

The central theme of the EOGC2009 conference is Earth Observation for Global Changes. The main topics included international Earth observation efforts on global change studies, remote sensing of land use and land cover changes, coastal and marine ecosystems, snow, ice and the polar environment, eco-environmental change monitoring in the Tibetan Plateau, applications of remote sensing in the Wenchuan Earthquake, global geodetic observing system for global change studies, GNSS for emergency and disaster management, geospatial data processing and integration, and education and training in Earth observation technology and applications.

The conference provided a forum for original research contributions and practical experiences of the development and use of various Earth observation technologies, data interpretation techniques, and application methods. Validation of the societal impact of operational Earth observation products, as well as the benefits from the enhanced products to be produced by the Global Earth Observing System of System (GEOSS) and Committee of Earth Observing System (CEOS), currently under development, was also discussed. Over 700 abstracts and 456 full papers were received. Approximately 400 participants came from 22 countries and regions, including Austria, Australia, Canada, China, Egypt, Finland, Germany, Hong Kong, India, Iran, Italy, Myanmar, Portugal, Saudi Arabia, South Africa, Spain, Sweden, Taiwan, Thailand, The Netherlands, UNEP, and USA.

A total of 80 papers are finally included in this volume after a peer-review process. We would like to thank many people who contributed to this volume. The authors gave their valuable time to produce a state-of-the-art analysis and evaluation of the Earth observation technologies in global change studies. We are particularly grateful to all the reviewers who helped in evaluating the manuscripts in a short period of time (less than one month), including Costas Armenakis (York University, Canada), Yifang Ban (Royal Institute of Technology,
Sweden), Piero Boccardo (Politecnico di Torino, Italy), Alexander Brenning (University of Waterloo, Canada), Dongmei Chen (Queen’s University, Canada), Georgia Fotopoulos (University of Toronto, Canada), Jay Gao (University of Auckland, New Zealand), Jianhua Gong (Institute of Remote Sensing Applications, CAS, China), Richard Kelly (University of Waterloo, Canada), Norman Kerle (ITC, The Netherlands), Zhaoqiang Huang (China Metallurgic Geology Bureau, China), Gangyao Kuang (University of Waterloo, Canada/National University of Defense Technology, China), Peijun Li (Peking University, China), Ting Liu (Florida State University, USA), Guoxiang Liu (Southwest Jiaotong University, China), Micha Pazner (University of Western Ontario, Canada), Dar Roberts (University of California, Santa Barbara, USA), Julian Smit (University of Cape Town, South Africa), Jiakui Tang (Yantai Institute of Coastal Research for Sustainable Development, CAS, China), Antonio M. G. Tommaselli (Sao Paulo State University, Brazil), Freek D. van der Meer (ITC, The Netherlands), Qihao Weng (Indiana State University, USA), Huayi Wu (Wuhan University, China), Min Sun (Peking University, China), Zhu Xu (Southwest Jiaotong University, China), Xianfeng Zhang (Peking University, China), Yun Zhang (University of New Brunswick, Canada), Ping Zhong (The Hong Kong Polytechnic University, Hong Kong, China), and Libin Zhou (Florida State University, USA). The graduate students at Peking University (China), University of Waterloo (Canada), Southwest Jiaotong University (China), and Florida State University (USA) are appreciated in handling the communications with authors during the peer review and revision process as well as some editing work. Our special thanks go to SPIE staff for their efforts in handling the publication issues. Last but not least, we wish to acknowledge the supporting organizations and institutions such as International Society of Photogrammetry and Remote Sensing (ISPRS), International Cartographic Association (ICA), International Association of Geodesy (IAG), International Society for Digital Earth (ISDE) and International Society for Optical Engineering (SPIE).

Xianfeng Zhang
Jonathan Li
Conference Secretariat and Scientific Committee Chair
Editors-In-Chief
2 July 2009