

**International Conference on Geomatics Education
- Challenges and Prospects (ICGE) - Rundown**

Location: N003, G/F, Block N, The Hong Kong Polytechnic University (PolyU)

10 May 2023 (Wed)		
Time	Activity	Location
10:00 – 13:00	Registration @ <i>outside N002, PolyU</i>	
14:00 – 14:20	<p>Opening Ceremony</p> <p>Welcome Remarks <i>by Prof. Xiangdong LI, Dean of Faculty of Construction and Environment</i></p> <p>Opening Addresses <ul style="list-style-type: none"> - <i>by Sr CHANG Kwok Fai, Deputy Director, Survey and Mapping Office, Lands Department, The Hong Kong SAR Government</i> - <i>by Prof. Derek Lichti, International Society for Photogrammetry and Remote Sensing (ISPRS)</i> - <i>by Prof. Tao WANG, International Cartographic Association (ICA)</i> </p> <p>Group Photo Taking</p>	N003
14:20 – 14:50	<p>Keynote Speech 1: Sailing Through Radical Changes in the Geomatics Education <i>by Prof. Liqiu MENG, Technical University of Munich</i></p>	
14:50 – 15:30	<p>Session 1: Web-based Tools for Surveying Education</p> <p>14:50 – 15:10: The Design of Scalable Web GIS Microservice Framework for Undergraduate Education <i>by Dr Haiyang LYU, Nanjing University of Posts and Telecommunications, China</i></p> <p>15:10 – 15:30: Geospatial Approach for Petrol Pumps Valuation with Urban Prediction Modelling by Cellular Automata in Creeds of Metropolitan Expanse <i>by Mr Danish RAZA, Wuhan University, China</i></p> <p>Session Chair: Prof. Liqiu Meng</p>	
15:30 -16:00	<i>Tea Break</i>	
16:00 – 17:40	<p>Session 2: Curricula Development</p> <p>16:00 – 16:20: Urban Informatics - a Foundational Interdiscipline for Future Smart Cities <i>by Prof. John SHI, The Hong Kong Polytechnic University, Hong Kong</i></p> <p>16:20 – 16:40: Multiple Pedagogical Approaches to Teaching GIS for Environmental Science <i>by Prof. Zhiyong HU, University of West Florida, United States</i></p> <p>16:40 – 17:00: Remote Sensing Related Practices for Geomatics Education in Undergraduate Curriculum at the IMNU <i>by Prof. Bayaer WULIANGHA, Inner Mongolia Normal University, China</i></p> <p>17:00 – 17:20: Abwi Airborne Binocular Whiskbroom Imager: Camera Principles and the Workflow <i>by Mr Jieke DONG, Wuhan University, China</i></p> <p>17:20 – 17:40: Four-In-One Scientific and Innovative Surveying and Mapping Postgraduates Talent Training System of "Ideological And Political - Curriculum - Platform - Team" <i>by Ms Ying XU, Shandong University of Science and Technology, China</i></p> <p>Session Chair: Prof. Derek Lichti</p>	N003
18:30 – 20:30	<i>Banquet @ King Yat Hin (景逸軒), 8/F, Harbour Plaza Metropolis, Hung Hom</i>	

11 May 2023 (Thu) AM

9:00 – 9:30	Keynote Speech 2: Integrating New and Emerging Concepts into a Geomatics Engineering Curriculum <i>by Prof. Derek LICHTI, The University of Calgary</i>	
9:30 – 10:50 Session Chair: Dr Wallace Lai	Session 3: Promotion of Young Professional 9:30 – 9:50: ‘Remote Sensing Plus’ Training Mode of Innovation and Entrepreneurship Talent Nurturing through College Student Competitions <i>by Prof. Xiaoliang MENG, Wuhan University, China</i> 9:50 – 10:10: Faculty of Geomatics as the Focal Point in Geomatics Education in Sri Lanka <i>by Dr Herath Prasanna, Sabaragamuwa University of Sri Lanka, Sri Lanka</i> 10:10 – 10:30: A Teaching-Learning and Storytelling Platform: Students’ Perspectives on Applying Story Map in Education in Geo-Informatics Subjects <i>by Ms Fangyi CAI, The Hong Kong Polytechnic University, Hong Kong</i>	N003
10:30 – 10:50	<i>Tea Break</i>	
10:50 – 11:30 Session Chair: Dr Guenther Retscher	Session 4: Multi-level Education 10:50 – 11:10: Cesium-MRS: A Cesium-based Platform for Visualizing Multi-source Remote Sensing Data Remote Sensing Data* <i>by Mr Chuanbin LIU, ShanDong University of Science and Technology, China</i> 11:10 – 11:30: PyRS - Python Package for Remotely Sensed Data Processing* <i>by Mr Xichen MENG, Shandong University of Science and Technology, China</i>	N003
12:00 – 13:30	<i>Lunch @ Chinese Restaurant (聚賢樓), 4/F, Communal Building</i>	

*online presentations

11 May 2023 (Thu) PM

13:30 – 14:00	Keynote Speech 3: Experiences from several Erasmus+ Education Projects <i>by Prof. Georg GARTNER, Vienna University of Technology</i>	N003
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<p>11 May 2023 (Thu)</p> <p>14:00 – 16:00</p> <p>Session Chair: Prof. Georg Gartner</p>	<p>Session 5/6: Promotion of Materials on Geomatics & Emerging Techniques in Surveying</p> <p>14:00 – 14:20: Design and Implementation of the Integrated Practicum of Geomatics According to Engineering Education Accreditation <i>by Prof. Ling ZHU, Beijing University of Civil Engineering and Architecture, China</i></p> <p>14:20 – 14:40: Designing Blinded Experiments for Bias Mitigation in Geophysical Surveying Subject <i>by Dr Wallace LAI, The Hong Kong Polytechnic University, Hong Kong</i></p> <p>14:40 – 15:00: Measure Up: A Serious Game for Topographic Education <i>by Mr Jelle VERMANDERE, KU Leuven, Belgium</i></p> <p>15:00 – 15:20: Building3D: A Urban-Scale Dataset and Benchmarks for Learning Roof Structures from Point Clouds* <i>by Prof. Ruisheng WANG, University of Calgary, Canada</i></p> <p>15:20 – 15:40: Nurturing Talents of Geomatics Surveyors to Meet the Challenges of Land Supply, Works Projects and Smart City of Hong Kong <i>by Mr Ben Siu-bun CHAN, The Hong Kong Polytechnic University, Hong Kong</i></p> <p>15:40 – 16:00: Development of AI-Hardware Related Curriculum for Universities in Brandenburg and Bavaria: Visions and Experiences from BB-KI Chips <i>by Ms Zhouyi XIONG, Technical University of Munich, Germany</i></p>	<p>N003</p>
<p>15:30 – 16:00</p>	<p><i>Tea break</i></p>	
<p>11 May 2023 (Thu)</p> <p>16:00 – 18:20</p> <p>Session Chair: Dr Wei YAO</p>	<p>Session 7/8: Multi-level Surveying Education & Cost-effective Surveying Education</p> <p>16:00 – 16:20: Monitoring Work Progress of Dam Construction based on Photogrammetric Point Clouds and BIM Building Elements <i>by Prof. Pratama Arliandy, Jakarta State Polytechnic, Indonesia</i></p> <p>16:20 – 16:40: Environment Monitoring along China-Europe Railway Express with Remote Sensing and Artificial Intelligent Technology: A Regional Collaboration Project between China and Serbia <i>by Dr Xian GUO, Beijing University of Civil Engineering and Architecture, China</i></p> <p>16:40 – 17:00: Using Indoor Positioning Technology to Evaluate Students' Academic Performance with Their Classroom Performance <i>by Dr Keru LU, The Hong Kong Polytechnic University, Hong Kong</i></p> <p>17:00 – 17:20: Interdisciplinary Approach to Curricula Development in Geomatics Education: Erasmus+ LBS2ITS Project <i>by Dr Guenther RETSCHER, Vienna University of Technology (TUW), Austria</i></p> <p>17:20 – 17:40: Reflections on the State of Geomatics Engineering Curricula in Spanish Higher Education <i>by Prof. Angel COLLADO, University of Castilla-La Mancha (UCLM), Spain</i></p> <p>17:40 – 18:00: A Comparative Study on Multi-source Remote Sensing Image Registration Algorithms* <i>by Ms Yiyao WANG, Shandong University of Science and Technology, China</i></p> <p>18:00 – 18:20: Virtual Reality Traverse: A Novel Way to Teach Traverse Surveying <i>by Dr Lawrence LAU, The Hong Kong Polytechnic University, Hong Kong</i></p>	<p>7/8N003</p>

**online presentations*

12 May 2023 (Fri) AM

<p>9:20 – 10:20</p> <p>Session Chair: Dr Xiaolin ZHU</p>	<p>Session 9: Innovation for Asset Management</p> <p>9:00 – 9:20: Establishment and Practice of Undergraduate Education System for Marine Surveying and Mapping in the New Stage <i>by Prof. Fanlin YANG, Shandong University of Science and Technology, China</i></p> <p>9:20 – 9:40: The "Integration of Science and Education, International Cooperation" Mode of Training Talents in Geomatics <i>by Prof. Chaoying ZHAO, Chang'an University, China</i></p> <p>9:40 – 10:00: From Tectonic Geodesy to Natural Disasters: Video, Science and Response <i>by Dr Ting CHEN, Wuhan University, China</i></p> <p>10:00 – 10:20: A Comparison Study on Feature Extraction and Matching using Manually Designed and Deep Learning-based Methods <i>by Mr Zhanquan LIU, Shandong University of Science and Technology, China</i></p>	<p>N003</p>
<p>10:20 – 10:40</p>	<p><i>Tea break</i></p>	
<p>10:20 – 11:00</p> <p>Session Chair: Dr Xiaolin ZHU</p>	<p>Session 9: Innovation for Asset Management</p> <p>10:20 – 10:40: Technical Approach A 2d GNSS Cadastral Survey on Prismatic Compass Lot <i>by Mr Abdul Khaliq BUJANG, Brunei Survey Department, Brunei Darussalam</i></p> <p>10:40 – 11:00: Comprehensive Analysis of UNet Backbone and Decoder for Deep Learning-based Building Segmentation <i>by Dr Jian YANG, University of Tsukuba, Japan</i></p>	<p>N003</p>
<p>11:20 – 11:30</p>	<p>Closing Ceremony</p>	

More conference information: <https://www.polyu.edu.hk/lsgi/icge22/>

Conference Abstract Proceedings:



Updated Programme:

