

Nov. 9	Winc Hall, WINC AICHI		902
9:30-10:00	Opening Address Prof. Atsuo IYOSHI, Chancellor, Chubu Univ. Ms. Michiko UENO, Former Vice-minister of MEXT Prof. John RICHARDS, President, ISDE Prof. Hiromichi FUKUI, Director, IDEAS, Chubu Univ.		
10:00-10:30	Keynote 1 Prof. Tetsuzo YASUNARI, D.G., Research Institute for Human and Nature		
10:30-10:50	Break		
10:50-11:20	Keynote 2 Prof. Daniel SUI, The Ohio State University		
11:20-11:50	Keynote 3 Dr. Jonathan TRENT, NASA		
11:50-12:20	Keynote 4 Dr. Michael GOULD, Esri		
12:20-14:00	Lanch Break		
PM	55th Memorial Movie, Ise-wan Typhoon	Small Hall	14:00-15:00 ESD1
		Poster, Exhibition	15:00-15:30 Break
			15:30-16:30 ENV1
	Open to Public (no charge, no registration)		

Nov. 10		Small Hall		902	1002
		Poster, Exhibition	9:30-10:30 INFR1 10:30-11:00 Break 11:00-12:00 INFR2, CITY 12:00-14:00 Lanch Break 14:00-15:00 VIS1 15:00-15:30 Break 15:30-16:30 DIS		Special Session: UAV NIDE, etc. Special Session: Latest Sattelites JAXA
Nov. 11	Winc Hall, WINC AICHI	Small Hall		902	1002
		Poster, Exhibition	9:30-10:30 ESD2 10:30-11:00 Break 11:00-12:00 ENV2		AGR Break VIS2, CZSC
12:00-14:00	Closing				

Nov. 12	Nagoya Congress Center
9:00-10:30	Joint Session of UNESCO World Conference on ESD "Report of the 5th Digital Earth Summit"

CITY: City Plannning, Geodesign and Digital City, CZSC: Citizen Science and Voluntary GI
VIS: Visualization and Scientific Communication, INFR: Digital Earth Infrastructure, DIS: Disaster
ENV: Environment, AGR: Agriculture, ESD: Education for Sustainable Development,

Day 1 9th November, 2014 / Sunday

Session : Opening Address

Venue : Winc Hall

Time : 9:30 - 10:00

Prof. Atsuo IYOSHI, Chancellor, Chubu University

Ms. Michiko UENO, Former Vice-Minister of MEXT

Prof. John RICHARDS, President, ISDE

Prof. Hiromichi FUKUI, Chair of LOC, Director, IDEAS, Chubu University

Session : Keynotes

Venue : Winc Hall

Time : 10:00 - 12:20

Chair : Guo HUADONG

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|---------------|--|
| 10:00 - 10:30 | Keynote1 "Future Earth and Its Implication in Asia and Pacific"
Prof. Tetsuzo YASUNARI, D.G., Research Institute for Human and Nature |
| 10:30 - 10:50 | Break |
| 10:50 - 11:20 | Keynote2 "Transforming Society by Volunteered Geographic Information (VGI)"
Prof. Daniel SUI, The Ohio State University |
| 11:20 - 11:50 | Keynote3 "OMEGA: A Systems Approach to Sustainable Development"
Dr. Jonathan TRENT, NASA |
| 11:50 - 12:20 | Keynote4 "GIS as a Platform for Problem-based Learning and Innovation"
Dr. Micheal GOULD, Esri |
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Session : Poster and Exhibition

Venue : Small Hall

Time : 12:00 - 16:30

Session : Documentary Movie

Venue : Winc Hall

Time : 14:00 - 16:30

55th Memorial Movie, Ise-wan Typhoon

Session : ESD1 (Education for Sustainable Development)
(15min presentation and 5min discussion)

Venue : 902

Time : 14:00 - 15:00

Chair : Mario HERNANDEZ

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|---------------|--|
| 14:00 - 14:20 | ESD1-1 "Geoinformatics Education in China"
Deren LI, Wuhan University |
| 14:20 - 14:40 | ESD1-2 "GIS Training: Case of UAE"
Mohamed YAGOUB, UAE University |
| 14:40 - 15:00 | ESD1-3 "GIS Curriculum for Field Worker"
Kiyoshi TAKEJIMA, Chubu University |
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Session : ENV1 (Environment)
(15min presentation and 5min discussion)

Venue : 902

Time : 15:30 - 16:30

Chair : Manfred EHLERS

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| 15:30 - 15:50 | ENV1-1 "Using Remote Sensing Techniques and Geographic Information System (GIS) for Combating Desertification in the Shobak Area-Jordan"
Entisar ELHIHI, Royal Jordanian Geographic Centre |
| 15:50 - 16:10 | ENV1-2 "The Characteristics Analysis of Thermokarst Lake Ice in the Qinghai-Tibet Plateau Using Envisat-ASAR Imagery" |

Zhen LI, Chinese Academy of Science

16:10 - 16:30

ENV1-3 "The Multichannel Spectroellipsometric System for Monitoring Aquatic Environment"

Ferdinant MKRTCHYAN, Institution of Russian Academy of Science

Day 2 10th November, 2014 / Monday

Session : Poster and Exhibition

Venue : Small Hall

Time : 9:30 - 16:30

Session : INFR1 (Digital Earth Infrastructure)
(15min presentation and 5min discussion)

Venue : 902

Time : 9:30 - 10:30

Chair : Peter WOODGATE

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|---------------|--|
| 9:30 - 9:50 | INFR1-1 "Computation of Ship Geometry and Category Identification Using TerraSAR-X data (SPOT and STRIP)"
Balasubramaniam MADHAVAN, National Field Research Center for Environment Conservation |
| 9:50 - 10:10 | INFR1-2 "Introduction of ALOS World 3D -Global dataset of high-resolution topography and colored images-"
Hiroto NAGAI, Japan Aerospace Exploration Agency |
| 10:10 - 10:30 | INFR1-3 "Panorama Shooting and Hosting Platform for Nature Monitoring"
Soko AOKI, Kadinche Corporation |
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Session : Special Session: UAV (Unmanned Aerial Vehicle)

Venue : 1002

Time : 9:30 - 12:00

Chair : Hiroshi INOUE, National Research Institute for Earth Science and Disaster Prevention

Applications of Small UAV to Disaster Research

Session : INFR2 (Digital Earth Infrastructure) and CITY (City Planning, Geodesign and Digital City)
(15min presentation and 5min discussion)

Venue : 902

Time : 11:00 - 12:00

Chair : Changlin WANG

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|---------------|--|
| 11:00 - 11:20 | INFR2-1 "Development of Digital Oman Environmental and Biodiversity Atlas-OEBA"
Balasubramaniam MADHAVAN, National Field Research Center for Environment Conservation |
| 11:20 - 11:40 | INFR2-2 "Real-Time Information Fusion for Navigation in Dense Crowds"
Manfred EHLERS, University of Osnabrueck |
| 11:40 - 12:00 | CITY-1 "Modeling Urban Expansion: A Case Study in Santa Rosa, Laguna, Philippines"
Gemmaly MAGNAYE, University of the Philippines Los Banos |
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Session : VIS1 (Visualization and Scientific Communication)
(15min presentation and 5min discussion)

Venue : 902

Time : 14:00 - 15:00

Chair : Jean SEQUEIRA

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|---------------|--|
| 14:00 - 14:20 | VIS1-1 "Automatic Generation of 3D Building Models for Sustainable Development"
Kenichi SUGIHARA, Gifu Keizai University |
| 14:20 - 14:40 | VIS1-2 "A Comparative Study of Digital Terrain Data for Visibility Analysis in the Planning and Management of Scenic Resources"
Toru OTAWA, University of Idaho |
| 14:40 - 15:00 | VIS1-3 "Visualizing the Past: Utilization of CORONA Satellite Image as a Base Map of Historical WebGIS of Asia"
Nobuya WATANABE, Chubu University |

Session : Special Session: Latest Satellites, JAXA
(15min presentation and 5min discussion)

Venue : 1002

Time : 14:00 - 15:30

Chair : Yutaka KANEKO, Japan Aerospace Exploration Agency

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| 14:00 - 14:20 | SP2-1 "Water-related Disasters and Precipitation Remote Sensing from Space"
Misako KACHI, Japan Aerospace Exploration Agency |
| 14:20 - 14:40 | SP2-2 "Monitoring the Forest/Non-forest from Space Using the PALSAR and PALSAR-2"
Masanobu SHIMADA, Japan Aerospace Exploration Agency |
| 14:40 - 15:00 | SP2-3 "Space-based Greenhouse Gas Monitoring by GOSAT"
Kei SHIOMI, Japan Aerospace Exploration Agency |
| 15:00 - 15:20 | SP2-4 "Practical Applications Utilizing QZS-1 "Michibiki"
Kazuhiro YOSHIKAWA, Japan Aerospace Exploration Agency |
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Session : DIS (Disaster)
(15min presentation and 5min discussion)

Venue : 902

Time : 15:30 - 16:30

Chair : Milan KONECNY

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| 15:30 - 15:50 | DIS-1 "Exploring the Relative Performance of ASOS and RSA Weather Data in Explaining Historical Weather Related Disaster Damage"
Chul SOHN, Gangneung-Wonju National University |
| 15:50 - 16:10 | DIS-2 "Evaluation of DEM Generation Based on Interferometric SAR Using TanDEM-X Data"
Ram AVTAR, United Nations University |
| 16:10 - 16:30 | DIS-3 "Education for Disaster Prevention and Preparedness by Using Digital Earth -Introducing a Case of Chubu University-"
Jun IZUTSU, Chubu University |

Day 3 11th November, 2014 / Tuesday

Session : Poster and Exhibition

Venue : Small Hall

Time : 9:30 - 12:00

Session : ESD2 (Education for Sustainable Development)
(15min presentation and 5min discussion)

Venue : 902

Time : 9:30 - 10:30

Chair : Temenoujka BANDROVA

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| 9:30 - 9:50 | ESD2-1 "Aqua Republica Serious Game Competition on Water Resource Management for Schools in Asia Pacific Region"
David WORTLEY, Gamification and Immersive Technologies Strategic Solutions |
| 9:50 - 10:10 | ESD2-2 "GIS as a Platform for Problem-based Learning and Critical Thinking"
Michael GOULD, Esri |
| 10:10 - 10:30 | ESD2-3 "Digital Earth as a Platform for Synthesis of Knowledge and ESD (Education for Sustainable Development)"
Hiromichi FUKUI, Chubu University |
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Session : AGR (Agriculture)
(15min presentation and 5min discussion)

Venue : 1002

Time : 9:30 - 10:30

Chair : Gábor Remetey FÜLÖP

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| 9:30 - 9:50 | AGR-1 "Digital Earth for Sustainable Agriculture: Case of Land Suitability Study for Viticulture in Inland Northwest Region of the United States" |
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	Toru OTAWA, University of Idaho
9:50 - 10:10	AGR-2 "TanDEM-X Based InSAR Techniques to Monitor Oilpalm Plantation area"
	Ram AVTAR, United Nations University
10:10 - 10:30	AGR-3 "Agriculture Information Service Platform Based on OGC Standard and Crop Modeling"
	Kiyoshi HONDA, Chubu University

Session : ENV2 (Environment)
(15min presentation and 5min discussion)

Venue : 902

Time : 11:00 - 12:00

Chair : Hiromichi FUKUI

11:00 - 11:20	ENV2-1 "Regional Estimation for Existing Global Land Cover Datasets by Field Investigation in Inner Mongolian Desert Steppe Region, CHINA"
	Bayaer WULIANGHA, Inner Mongolia Normal University
11:20 - 11:40	ENV2-2 "Forest Disturbance and Regeneration in Northeastern Europe"
	Anton KARDAKOV, Estonian University of Life Sciences
11:40 - 12:00	ENV2-3 "Spatio-temporal Pattern of Terrestrial Ecosystem in Ghana Using Remote Sensing Data"
	Ram AVTAR, United Nations University

Session : VIS2 (Visualization and Scientific Communication) and CZSC (Citizen Science and Voluntary GI)
(15min presentation and 5min discussion)

Venue : 1002

Time : 11:00 - 12:00

Chair : Hugh MILLWARD

- 11:00 - 11:20 VIS2-1 "Digital Archive of Community Memories Before the 2011 Tohoku Earthquake and Tsunami in Japan - Rebuilding Lost Place and Landscape Using CityEngine"
Akinobu MURAKAMI, University of Tsukuba
- 11:20 - 11:40 VIS2-2 "Map Based Querying of Spatial Data Focused on Search for Spatial Similarities"
Karel STANEK, Masaryk University
- 11:40 - 12:00 CZSC-1 "The Role of Social Geo-participation in the Creation of the Smart City for Plock"
Robert OLSZEWSKI, Warsaw University of Technology
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Session : Panel Discussion "Digital Earth for ESD"

Venue : Winc Hall

Time : 12:00 - 12:30

Chair : John RICHARDS

Session : Closing Ceremony

Venue : Winc Hall

Time : 12:30 - 13:00

Chair : Guo HUADONG

12:30 - 12:40 "Invitation to the 9th International Symposium on Digital Earth"
Hugh MILLWARD, Saint Mary's University

12:40 - 12:50 "Exchange the Frag of Digital Earth Summit and Invitation to the 6th Summit"

12th Nov.

9:00 - 10:30 "Report of the 5th Digital Earth Summit", Joint Session of UNESCO World Conference on ESD at Nagoya Congress Center, Shiratori

Posters

Venue : Small Hall

CITY-P1 "A Novel Image Fusion Method Using DSM and Spectral Un-mixing of Pixels"

Linhai JING, Chinese Academy of Science

CITY-P2 "Auckland's Shifting Diversity"

Nitin MUKKOTH VALAPPIL, GIS Consultant (India)

CITY-P3 "Study on the 3D Underground Spatial Decision Support System in Guangzhou"

Jiangmin HE, Guangzhou Urban Planning Bureau

CZSC-P1 "Research and Application of Street View based on China Digital Ocean"

Lingchong KANG, National Marine Data and Information Service

DIS-P1 "Glacier and Slope Formation Monitoring in New-Zealand Using UAV Based Imagery"

Christopher GOMEZ, University of Canterbury

DIS-P2 "Storm Surge Modeling, Visualizing and Information Service System in East China Sea"

Zengan DENG, National Marine Data and Information Service

ENV-P1 "Structure from Motion for Pointclouds Creation from Historical Imagery and UAV:
Monitoring Floodplain Vegetation Evolution in 3D"

Christpher GOMEZ, University of Canterbury

AGR-P1 "Microwave Radiometry Monitoring of Soil-plant Formation"

Ferdinant MKRTCHYAN, Institution of Russian Academy of Science

UAV-P1 "Enabling a Science Support Structure for NASA's Global Hawk UASs"

Donald SULLIVAN, NASA

UAV-P2 "Aerial Photogrammetry of Damages by Heavy Intensive Rainfall in Nagiso and Takayama
Using UAV"

Satoru SUGITA, Chubu University