



GISUP(International)

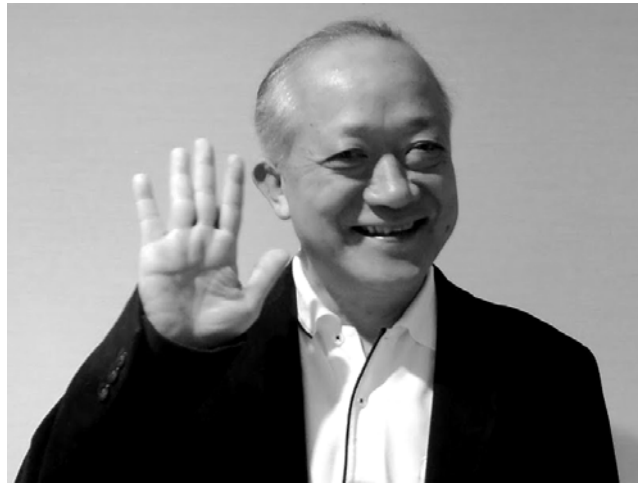
The 16th International Symposium of
Geospatial Information Science and Urban Planning

February 19-21, 2014

Pompe van Meerdervoort Hall & Ryojun Matsumoto Auditorium
Nagasaki University, 12-4 Sakamoto 1-Chome,
Nagasaki 852-8102, JAPAN

Organized by Organizing Committee of GISUP2014, International

Welcome to GISUP 2014, For the future !!



Dear colleagues and friends from Asia !

We are so glad that we can meet again and again at Nagasaki. As you can see, Nagasaki is one and only city where had been opened its door for importing western culture in the period of national isolation in Japan. From this historical site Nagasaki, we planned to think about the globalized and informative generation and science for the future through international workshop.

If you visit to the historical site "Dejima and Glover-garden" in Nagasaki, you can easily understand how wonderful the multicultural and international exchanges are !! In Peace Park, you can pray for our peaceful future.

Everybody, let's pray, talk and spend goods time at Nagasaki with Asian friends. I believe that our collaboration and cooperation will lead us to fruitful future.

General Chair, Prof. Takakazu Ishimatsu

Takakazu Ishimatsu

ORGANIZING COMMITTEE

Chairman: Professor Takakazu ISHIMATSU

Nagasaki University, Japan (ishi@nagasaki-u.ac.jp)

Vice Chairman: Professor In-Tae YANG

Kangwon National University, Korea (intae@kangwon.ac.kr)

Vice Chairman: Lecturer Hui-Lun YU

National Kaohsiung Marine University (hlyu@webmail.nkmu.edu.tw)

Members:

Kazuichi Sugiyama, Nagasaki University, JAPAN

(sugiyama@nagasaki-u.ac.jp)

Rieko Nakao, Nagasaki University, JAPAN

(rieko@nagasaki-u.ac.jp)

Takashi Fujiki, Nagasaki University, JAPAN

(t-fujiki@nagasaki-u.ac.jp)

Takeshi Yamaguchi, University of the Ryukyus, JAPAN

(t-yama@edu.u-ryukyu.ac.jp)

Takahito Ueno, Sojo University, JAPAN

(ueno@eco.sojo-u.ac.jp)

Seung-Pil Choi, Kwandong University, KOREA

(spchoi@kwandong.ac.kr)

Chang-Hahk Hahm, Inha Technical College, KOREA

(chhahm@inhate.ac.kr)

Eung-Nam Kim, Inha Technical College, KOREA

(kimen@inhatec.ac.kr)

Won-Dae Kim, Inha Technical College, KOREA

(kimwd@inhatec.ac.kr)

Dong-Moon Kim, Namseoul University, KOREA

(david@nsu.ac.kr)

Seikichi Ren, Nagasaki University, JAPAN

(lien@nagasaki-u.ac.jp)

Masako Matsuda, Nagasaki University, JAPAN

(mmatsuda@nagasaki-u.ac.jp)

Byungdug Jun, Nagasaki University, JAPAN

(bdjun@nagasaki-u.ac.jp)

GISUP2014 Detailed Program

The 16th International Symposium of
Geospatial Information Science and Urban Planning
(GISUP2014, International)

February 19-21, 2014

Pompe van Meerdervoort Hall & Ryojun Matsumoto Auditorium
Nagasaki University, 12-4 Sakamoto 1-Chome,
Nagasaki 852-8102, JAPAN

Organized by Organizing Committee of GISUP2014, International

Sponsored by Faculty of Engineering, Nagasaki University

Faculty of Environmental Studies, Nagasaki University

Faculty of Education, Nagasaki University

School of Health Sciences, Nagasaki University

Schedule

February 19, 2014 Registration and Keynote Lecture, Pompe van Meerdervoort Hall

February 20, 2014 GISUP2014, Oral Presentation, Ryojun Matsumoto Auditorium

Session-1, 2, 3, 4 (9:00-17:00)

February 21, 2014 Technical tour in Nagasaki city (Individual Plan)

Registration Fee

General: 6,000 Yen

Student: 3,000 Yen

Conference Program Contents

The conference consists of information symposium for Geospatial Information Science and Urban Planning (GISUP2014), for scientific sessions on various GIS and urban planning method and system.

Wednesday, 19 February (*Pompe van Meerdervoort Hall*)

Registration (16:00 - 16:30)

Keynote Lecture (16:30 - 18:00)

Titled: Marine Space and Human Society (Dr. Radomir Compel)

1

Thursday, 20 February (*Ryojun Matsumoto Auditorium*)

Opening Address (9:00 - 9:10)

Chairman: Prof. Takakazu ISHIMATSU (Nagasaki University, Japan)

Special Lecture (9:10 - 9:40)

Titled: Long-term Monitoring of Mangroves Conversion Along the

Nothern Coast of West Java Province, Indonesia Using

Multi-temporal Landsat satellite images (Dr. Sam Wouthuyzen)

3

SCIENTIFIC SESSIONS (Oral Presentation)

Session-1 (9:40 – 10:55)

(Session Chair: Prof. Byungdug JUN, Nagasaki University, Japan)

1. A Case Study of Spatiotemporal Evaluation of Thermal Environment in
in Kumamoto City Urban Districts
Takahito UENO, Yusuke SHIKI, Satoshi DOI, Chihiro FUJISUE, Takahiro TASHIRO 14
2. School Trips from Nagasaki to China in Prewar Years
Yan YANG, Masako MATSUDA 20
3. Application of Peace Education for ESD
Anna SHIMODA, Byungdug JUN 27
4. A Study on LIDAR Data-based Street Trees Service Methodology using Open Sources
Jin-Yi PARK, Eui-Myoung KIM 32
5. Classification Methods of Terrestrial LiDAR data set
using Fuzzy set theory
Ik-Jae KIM, Seung-Pil CHOI, Jee-Hyun Cho, Byeong-Woon PARK 38

Coffee Break (10:55 - 11:10)

Session-2 (11:10 – 12:25)*(Session Chair: Prof Eung-Nam KIM, Inha Technical College, Korea)*

- | | |
|---|----|
| 6. Development of Life- Safety Information Service Model | |
| <i>Hyun-Mi PARK, Eui- Myoung KIM, Young-Jin Park</i> | 47 |
| 7. Analysis on Differences of Impression of Landscape and Soundscape in Nagasaki City | |
| <i>Ping CHEN, Kazuichi SUGIYAMA, Senichiro SAKASHITA, Motohiro KINOSHITA, Mitsuru AMANO</i> | 55 |
| 8. A Study on Reverse Engineering of Bobsleigh Structure Using Terrestrial LiDAR | |
| <i>In-tae YANG, Keon PARK, Moon-seung SHIN</i> | 61 |
| 9. Education Philosophy and Faith of Father Marc Marie de Rotz | |
| <i>Yuma INADA, Byungdug JUN</i> | 71 |
| 10. A Study on Liability of Contract between Ocean Freight Forwarder and Client | |
| <i>Hui-Lung YU, Wan-Ling LIOU, Wan-Lin HSU</i> | 74 |

Lunch Break (12:25 - 14:00)**Session-3 (14:00 – 15:30)***(Session Chair: Prof Takahito UENO, Sojo University, Japan)*

- | | |
|--|-----|
| 11. A Study on the Carrier's Liability of the Amphibious Vehicle under Taiwan Law | |
| <i>Hui-Lung YU, Wan-Chien TSAI</i> | 87 |
| 12. GIS-based approach for Potential Runoff Coefficient Determination | |
| A Case Study of Upper Soyang Watershed | |
| <i>In-tae YANG, Tri Dev ACHARYA, Sang-yun LEE</i> | 108 |
| 13. Research on the Service of the Shared Taxi in Hasami Town of Nagasaki Prefecture | |
| <i>Simeng DONG, Kazuichi SUGIYAMA, Yingying ZHU, Seikichi REN</i> | 114 |
| 14. A Study on Effective Construction of Nationwide Orthophoto of Korea | |
| <i>Ji-Woong CHOI, Eui-Myoung KIM</i> | 120 |
| 15. Evaluation for Impression of Landscape and Soundscape in Incheon City of Korea | |
| <i>Dong-kyun YIM, Kazuichi SUGIYAMA, Eung-Nam KIM, Satoru IWAMOTO,</i> | 125 |
| <i>Yoshifumi SAKAI, Motohiro KINOSHITA, Mitsuru AMANO</i> | |
| 16. An Evaluation Method for Accessibility of Complex Subway Network | |
| <i>YongJin JOO, Eung-Nam KIM, ChangHahk HAHM</i> | 132 |

Coffee Break (15:30 - 15:45)

Session-4 (15:45 – 17:15)

(Session Chair: Assoc. Prof Kazuichi SUGIYAMA, Nagasaki University, Japan)

17. Extraction of Dangerous Roads Easily Exposed to Crime
Using Korean Digital Topographic Map 2.0
Min-Gyu SHIN, Eui-Myoung KIM 135
18. Inheritance Issues and Possibilities of Atomic Bomb, Nagasaki
Junki IYONAGA, Byungdug JUN 143
19. Evaluation for Impression of Buildings in Minami-yamate District of Nagasaki City
Satoru IWAMOTO, Menglin PAN, Kazuichi SUGIYAMA, Masahiro ICHIIYAMA, Motohiro KINOSHITA, Seikichi REN 149
20. Comparison of Peace Education in Asia
Aya TAIDE, Byungdug JUN 156
21. A study of the community environment in a hillside area of Nagasaki, Japan
—Obstacles to the livelihoods of residents —
Ryoko KAWASAKI, Akiko NITTA, Rieko NAKAO 160
22. Health Monitoring of Sewer Networks Using Video Processing Method
Wondae KIM, Hwan-Kook HWANG, Yeong-Sun SONG 165

Coffee Break (17:15 - 17:30)

Session-5 (17:30 – 18:15)

(Session Chair: Assoc. Prof Rieko NAKAO, Nagasaki University, Japan)

23. Analysis of Tools on Creating of Flash Card Materials for Reflection
to Learning Contents
Shin KURATA 169
24. A study on Production of Night Road Safety Maps for Women
Wan-Young SONG, Sin-Hoi GOO, Seong-sam KIM, Eui- Myoung KIM 174
25. Design Scheme of Google Mash-Up Service for Safe Zone
ChangHahk HAHM, Eung-Nam KIM , YongJin JOO 181
26. Regional-Oriented Curriculum For Peace Education
Taiki SHIMA, Byungdug JUN 184

Closing Address (18:15 – 18:20)

Vice Chairman: Prof. In-Tae YANG (Kangwon National University, Korea)

Published by

GISUP, INTERNATIONAL

1-14 Bunkyo-Machi, Nagasaki City, 852-8521, Japan

GISUP 2014(International)

The 16th International Symposium of Geospatial Information Science and Urban Planning

Copyright (c) 2014 by GISUP, INTERNATIONAL

All rights reserved. This book, or parts thereof, may not be reproduced in any form or by any means, electronic or mechanical, including photocopying, recording or any information storage and retrieval system now known or to be invented, without written permission from the Publisher.

ISBN-978-4-9907633-0-5

Typeset by

Secretariat of Organizing Committee

office@gisup.org <http://gisup.org>

Printed by

Kinko's Japan Co. Ltd.