

8th 3D GeoInfo Conference & ISPRS WG II/2 Workshop 2013

ISPRS Archives Volume XL-2/W2, 2013

**Istanbul, Turkey
27-29 November 2013**

ISBN: 978-1-62993-430-3

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2013) by the International Society for
Photogrammetry and Remote Sensing (ISPRS)
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the International Society for
Photogrammetry and Remote Sensing (ISPRS)
at the address below.

International Society for Photogrammetry and Remote Sensing (ISPRS)
Attn: Chen Jun
National Geomatics Centre of China
28 Lianhuachixi Road Haidian
Beijing 100830 China

Phone: 86 10 63 88 1102

Fax: 86 10 68 42 4101

chenjun@nsdi.gov.cn

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

ASSESSING FAÇADE VISIBILITY IN 3D CITY MODELS FOR CITY MARKETING	1
<i>F. Albrecht, J. Moser, I. Hijazi</i>	
RECONSTRUCTION OF 3D OBJECTS OF ASSETS AND FACILITIES BY USING BENCHMARK POINTS.....	7
<i>S. U. Baig, A. A. Rahman</i>	
PARTICIPATORY GIS: EXPERIMENTATIONS FOR A 3D SOCIAL VIRTUAL GLOBE	13
<i>M. A. Brovelli, M. Minghini, G. Zamboni</i>	
EXPLORING THE PROCESSES OF GENERATING LOD (0-2) CITYGML MODELS IN GREATER MUNICIPALITY OF ISTANBUL	19
<i>I. Buyuksalih, U. Isikdag, S. Zlatanova</i>	
A GENERIC AUGMENTED REALITY TELESCOPE FOR HERITAGE VALORIZATION	25
<i>S. Chendeb, T. Ridene, L. Leroy</i>	
INTEGRATING AND MANAGING BIM IN GIS, SOFTWARE REVIEW	31
<i>R. El Meouche, M. Rezoug, Ihab Hijazi</i>	
A 3D CAMPUS INFORMATION SYSTEM – INITIAL STUDIES	35
<i>I. Kahraman, I. R. Karas, B. Alizadehasharfi, A. Abdul-Rahman</i>	
DEVELOPMENT OF INDOOR SPATIAL DATA MODEL USING CITYGML ADE.....	41
<i>Yun-Ji Kim, Hye-Young Kang, Jiyeong Lee</i>	
GIS-BASED SMART CARTOGRAPHY USING 3D MODELING	47
<i>E. S. Malinverni, A. N. Tassetti</i>	
EXPERIMENTS WITH NOTARIES ABOUT THE SEMIOLOGY OF 3D CADASTRAL MODELS	53
<i>J. Pouliot, C. Wang, V. Fuchs, F. Hubert, M. Bedard</i>	
FEATURE-BASED QUALITY EVALUATION OF 3D POINT CLOUDS – STUDY OF THE PERFORMANCE OF 3D REGISTRATION ALGORITHMS	59
<i>T. Ridene, F. Goulette, S. Chendeb</i>	
SEMANTIC WORLD MODELLING AND DATA MANAGEMENT IN A 4D FOREST SIMULATION AND INFORMATION SYSTEM.....	65
<i>J. Roßmann, M. Hoppen, A. Bucken</i>	
VIRTUAL 3D CITY MODELING: TECHNIQUES AND APPLICATIONS.....	73
<i>Surendra Pal Singh, Kamal Jain, V. Ravibabu Mandla</i>	
AN EVALUATION ON DIFFERENT NUMBER OF GROUND CONTROL POINTS IN UNMANNED AERIAL VEHICLE PHOTOGRAMMETRIC BLOCK.....	93
<i>K. N. Tahar</i>	
A NOVEL METHOD FOR AUTOMATION OF 3D HYDRO BREAK LINE GENERATION FROM LIDAR DATA USING MATLAB	99
<i>G. J. Toscano, U. Gopalam, V. Devarajan</i>	
TRANSFORMING 2D CADASTRAL DATA INTO A DYNAMIC SMART 3D MODEL	105
<i>E. Tsiliakou, T. Labropoulos, E. Dimopoulou</i>	
CALCULATING LEAST RISK PATHS IN 3D INDOOR SPACE	113
<i>A. Vanclooster, De Maeyer, V. Fack, N. Van De Weghe</i>	
REAL-TIME GIS AND ITS APPLICATION IN INDOOR FIRE DISASTER	121
<i>Weiping Xu, Qing Zhu, Yeting Zhang, Yulin Ding, Mingyuan Hu</i>	
REAL TIME PROCESSING FOR EPIPOLAR RESAMPLING OF LINEAR PUSHBROOM IMAGERY BASED ON THE FAST ALGORITHM FOR BEST SCAN LINE SEARCHING	129
<i>Xun Geng, Qing Xu, Shuai Xing, Chaozhen Lan, Yifan Hou</i>	
USING TERRESTRIAL LASER SCANNERS TO CALCULATE AND MAP VERTICAL BRIDGE CLEARANCE.....	133
<i>Chengyi Zhang, David Arditi, Zhong Chen</i>	
DOCUMENTATION AND VISUALIZATION OF AN AS-BUILT TUNNEL BY COMBINING 3D LASER SCANNING AND WEB MAPPING	139
<i>Chengyi Zhang, David Arditi, Zhong Chen</i>	
THE USABILITY OF ONLINE GEOGRAPHIC VIRTUAL REALITY FOR URBAN PLANNING	145
<i>S. Zhang, A. B. Moore</i>	
PRODUCTION IN GDLRC AND PRESENT REFLECTIONS	151
<i>A. Kisa, S. Colak , S. Bakici, L. Ozmus</i>	

OBLIQUE PHOTOGRAMMETRY AND USAGE ON LAND ADMINISTRATION	161
<i>A. Kisa, L. Ozmus, B. Erkek, H. B. Ates, S. Bakici</i>	
SPATIAL DATA WEB SERVICES PRICING MODEL INFRASTRUCTURE	167
<i>L. Ozmus, B. Erkek, S. Colak, I. Cankurt, S. Bakici</i>	
3D APPLICATIONS IN DISASTER MITIGATION AND MANAGEMENT: CORE RESULTS OF DITAC PROJECT	173
<i>K. Kaptan, U. Kavlak, O. Yilmaz, O. T. Celik, A. K. Manesh, P. Fischer, O. Lupescu, P. L. Ingrassia, W. J. Ammann, C. Arculeo, R. Komadina, K. Lechner, G. V. Arnim, B. Hreckovski</i>	
Author Index	