

RAPID MODELLING OF COMPLEX BUILDING INTERIORS

Pawel Boguslawski¹, Christopher Gold²

¹ Department of Computing and Mathematics, University of Glamorgan, Wales, UK
pbogusla@glam.ac.uk

² Department of Computing and Mathematics, University of Glamorgan, Wales, UK
Department of Geoinformatics, Universiti Teknologi, Malaysia (UTM)
chris.gold@gmail.com

Commission IV, WG IV/8

KEY WORDS: 3D Data Models, 3D Data Structures, Building Interior Models, 3D indoor navigation, Emergency Response, Disaster Management

ABSTRACT:

Great progress has been made on building exterior modelling in recent years, largely driven by the availability of laser scanning techniques. However, the complementary modelling of building interiors has been handicapped both by the limited availability of data and by the limited analytic ability of available 3D data structures. Earlier papers of ours have discussed our progress in developing an appropriate data structure: this paper reports our final results, and demonstrates their feasibility with the modelling of two complex, linked buildings at the University of Glamorgan.

This contribution was selected in a double blind review process to be published within the *Lecture Notes in Geoinformation and Cartography* series (Springer-Verlag, Heidelberg).

Advances in 3D Geo-Information Sciences

Kolbe, Thomas H.; König, Gerhard; Nagel, Claus (Eds.) 2011, X
ISBN 978-3-642-12669-7, Hardcover
Date of Publication: January 5, 2011
Series Editors: Cartwright, W., Gartner, G., Meng, L., Peterson, M.P.
ISSN: 1863-2246