

Liste der Publikationen von Franz Rottensteiner (1)

Aufsätze in Zeitschriften mit Begutachtung:

- T. Weser, F. Rottensteiner, J. Trinder, J. Willneff, J. Poon, C. S. Fraser, Development and testing of a generic sensor model for pushbroom satellite imagery. In: *Photogrammetric Record* 23(123), 2008. (*Im Druck*).
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- S. Clode, F. Rottensteiner, P. Kootsookos, E. Zelniker, Detection and vectorisation of roads from LIDAR data. In: *Photogrammetric Engineering & Remote Sensing* 73(5), pp. 517-536, 2007.
- F. Rottensteiner, J. Trinder, S. Clode, K. Kubik, Using the Dempster-Shafer method for the fusion of LIDAR data and multi-spectral images for building detection. In: *Information Fusion* 6(4), pp. 283-300, 2005.
- F. Rottensteiner, C. Briese, Automatische Erfassung von Gebäudemodellen aus Laserscannerdaten und die Integration von Luftbildern. In: *Photogrammetrie Fernerkundung Geoinformation (PFG)* 4, pp. 269-277, 2004.
- F. Rottensteiner, Automatic generation of high-quality building models from LIDAR Data. In: *IEEE Computer Graphics & Applications* 23(6), pp. 42-50, 2003.
- F. Rottensteiner, Halbautomatische Gebäudeauswertung durch Integration von hybrider Ausgleichung und 3D Objektmodellierung. In: *Photogrammetrie Fernerkundung Geoinformation (PFG)* 4, pp. 289-301, 2001.

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- N. Pfeifer, M. Rutzinger, F. Rottensteiner, W. Mücke, M. Hollaus, Extraction of building footprints from airborne laser scanning: comparison and validation techniques. In: *Joint IEEE-GRSS/ISPRS Workshop on Remote Sensing and Data Fusion over Urban Areas (Urban 2007)*, Paris, France, unpaginated CD-ROM, 2007.
- F. Rottensteiner, J. Trinder, S. Clode, Data acquisition for 3D city models from LiDAR. In: *Proceedings of the 25th IGARSS*, pp. 521.524, Seoul (S. Korea), July 25-29, 2005.
- F. Rottensteiner, H. Kager, C. Briese, K. Kraus, LIDAR activities at the Viennese Institute of Photogrammetry and Remote Sensing. In: *Proceedings of the 3rd International LIDAR Workshop, "Mapping Geo-surficial Processes Using Laser Altimetry"*, The Ohio State University, Columbus, OH (USA), October 7-9. 2002.
- F. Rottensteiner, Photorealistisches Modell der Kirche in Wartberg. In: Luhmann, T. (Ed.), *Nahbereichsphotogrammetrie in der Praxis*. Herbert Wichmann Verlag Heidelberg, ISBN 3-87907-385-6, pp. 83-86, 2002.

Bücher, Buchkapitel, Dissertationen:

- F. Rottensteiner, S. Clode, 2007. Building and road extraction by LiDAR and imagery. In: C. Toth, J. Shan (eds), *Topographic Laser Ranging and Scanning: Principles and Processing*. To be published by Taylor & Francis / CRC Press. (*Im Druck*).
- F. Rottensteiner, G. Paar, W. Pölzleitner, Fundamentals of 3D reconstruction. In: W. Kropatsch, H. Bischof (eds.), *Digital Image Analysis. Selected Techniques and Applications*. Springer-Verlag New York, ISBN 0-387-95066-4, pp. 373-392, 2001.
- G. Paar, F. Rottensteiner, W. Pölzleitner, Image matching techniques. In: W. Kropatsch, H. Bischof (eds.), *Digital Image Analysis. Selected Techniques and Applications*. Springer-Verlag New York, ISBN 0-387-95066-4, pp. 393-410, 2001.

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- F. Rottensteiner, R. Prinz, Aerotriangulation mit digitalen Bildern: der Testblock FORSSA der OEEPE. In: *Vermessung und Geoinformation (VGI) 2/96*, Vienna, Austria, 1996.

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- U. Stilla, H. Mayer, F. Rottensteiner, C. Heipke and S. Hinz (eds), PIA07. Proceedings of the ISPRS Workshop on 'Photogrammetric Image Analysis 2007'. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences Vol. XXXVI – 3/W49A and 3/W49B, Munich, Germany, September 19-21, 2007.
- U. Stilla, F. Rottensteiner and S. Hinz (eds), CMRT05. Proceedings of the Joint Workshop of ISPRS and DAGM 'Object Extraction for 3D City Models, Road Databases, and Traffic Monitoring – Concepts, Algorithms, and Evaluation'. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences Vol. XXXVI – 3/W24, Vienna, Austria, August 29-30, 2005.

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- F. Rottensteiner, Automated updating of building data bases from digital surface models and multi-spectral images. In: *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XXXVII – B3A*, pp. 265-270, Beijing, 2008.
- F. Rottensteiner, Consistent estimation of building parameters considering geometric regularities by soft constraints. In: *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XXXVI – 3*, pp. 13-18, Bonn, 2006.
- C. Ressel, A. Haring, C. Briese, F. Rottensteiner, A concept for adaptive monoplottung using images and laserscanner data. In: *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XXXVI – 3*, pp. 96-104, Bonn, 2006
- F. Rottensteiner, J. Trinder, S. Clode, K. Kubik, Automated delineation of roof planes in LIDAR data. In: *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XXXVI – 3/W19*, pp. 221-226, Enschede, The Netherlands, 2005.
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- F. Rottensteiner, J. Trinder, S. Clode, K. Kubik, and B. Lovell, Building detection by Dempster-Shafer fusion of LIDAR data and multispectral Aerial Imagery. In: Kittler, J., Petrou, M., and Nixon, M. (Hrsg.), *Proceedings of the 17th International Conference on Pattern Recognition (ICPR)*, Cambridge (UK), Vol. 2, pp. 339-342, 2004.
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- F. Rottensteiner and C. Briese, Automatic generation of building models from LIDAR data and the integration of aerial images. In: *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XXXIV / 3-W13*, pp. 174-180, Dresden, Germany, 2003.
- F. Rottensteiner and M. Schulze, Performance evaluation of a system for semi-automatic building extraction using adaptable primitives. In: *International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences XXXIV / 3-W8*, pp. 47-52, Munich, Germany, 2003.
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- T. Weser, F. Rottensteiner, J. Willneff, C. S. Fraser, An improved pushbroom scanner model for precise georeferencing of ALOS PRISM imagery. In: *International Archives of Photogrammetry, Remote Sensing and Spatial information Sciences XXXVII - B1*, pp. 723-730, Beijing, 2008.
- N. Champion, L. Matikainen, X. Liang, J. Hyypä, F. Rottensteiner, A test of 2D building change detection approaches: Comparison, evaluation and perspectives. In: *International Archives of Photogrammetry, Remote Sensing and Spatial information Sciences XXXVII – B4*, pp. 297-304, Beijing, 2008.

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- P. Helmholz, F. Rottensteiner, C. S. Fraser, Enhancing the automatic verification of cropland in Ikonos imagery. In: *International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences XXXVII – B4*, pp. 385-390, Beijing, 2008.
- C. S. Fraser, F. Rottensteiner, T. Weser, J. Willneff, A new generic sensor orientation applied to ALOS imagery. In: *Proceedings of the 1st joint Principal Investigator symposium of ALOS data nodes*, Kyoto, 19-23 Nov., 5 pages (on CD-ROM), 2007
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- C. Bauerhansl, F. Rottensteiner, C. Briese, Determination of terrain models by digital image matching methods. In: *International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences XXXV- B4*, pp. 414-419, 2004.
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- F. Rottensteiner, P. Grussenmeyer, M. Geneva, Experiences with the digital photogrammetric program package ORPHEUS based on CIPA's "Zurich City Hall" dataset for architectural photogrammetry. In: *Proceedings of the International CIPA Symposium, International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences XXXIV-5/C7*, pp. 639-646, Potsdam, Germany, 2002.
- F. Rottensteiner, Halbautomatische Gebäudeauswertung hybride Ausgleichung unter Einbeziehung von 3D Objektmodellen. In: E. Seyfert (ed.), 21st Annual scientific-technical meeting of the German Society of Photogrammetry and Remote Sensing (DGPF) in Konstanz (Germany), Volume 10 of the publications of the DGPF, pp. 257-264, 2001.

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- T. Zischinsky, L. Dorffner, F. Rottensteiner, Application of a new model helicopter system in architectural photogrammetry. In: *International Archives of Photogrammetry and Remote Sensing XXXIII-B5, Proceedings of the 19th ISPRS Congress*, pp. 959-965, Amsterdam, The Netherlands, 2000.
- W. Rieger, M. Kerschner, T. Reiter, F. Rottensteiner, Roads and buildings from laser scanner data within a forest enterprise. In: *International Archives of Photogrammetry and Remote Sensing XXXII / 3-W14*, pp. 185-191, LaJolla, CA, 1999.
- F. Rottensteiner, Object reconstruction in a bundle block environment. In: *International Archives of Photogrammetry and Remote Sensing XXXII-3/1*, pp. 177-183, Columbus, OH, 1998.
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- F. Rottensteiner, R. Prinz., Report of the Institute for Photogrammetry and Remote Sensing at the TU Vienna. In: *Experimental Test on Digital Aerial Triangulation of OEEPE, Official Publication No. 31 of the OEEPE*, pp. 157-150, Espoo, Finland, 1996.
- G. Forkert, M. Kerschner, F. Rottensteiner, R. Prinz, Reconstruction of free-formed spatial curves from digital images. In: *International Archives of Photogrammetry and Remote Sensing XXX-5W1*, pp. 163-168, Zurich, Switzerland, 1995.

Andere Publikationen:

- F. Rottensteiner, Flächenbasierte Korrelation von Rahmenmarken in abgetasteten Bildern. Diploma Thesis at the Institute of Photogrammetry and Remote Sensing, Vienna University of Technology, 1993.