Publikationen

Q. Chaudhry, J. Lewis, A. Dudkiewicz, Boxall, A. B. A., G. Allmaier, Peter Hofmann, K. Tiede, A. Lehner, K. Molhave (2018): Development of a sample preparation approach to measure the size of nanoparticle aggregates by electron microscopy. [Available online 29 November 2018]. In: Particuology. DOI: 10.1016/j.partic.2018.05.007.

Peter Hofmann (2017): A Fuzzy Belief-Desire-Intention Model for Agent-Based Image Analysis (Chapter 14). In: Modern Fuzzy Control Systems and Its Applications.

Peter Hofmann, G. Bekkarnayeva (2017): Object-Based Change Detection of Informal Settlements. In: Proceedings of the Joint Urban Remote Sensing Event (JURSE) [Dubai, UAE;March 6-8, 2017].

M. Schmitzberger, I. Ozan, R. Graf, Peter Hofmann, S. Wegenkittl, M. Gruber, V. Andrejchenko, M. Belgiu, P. Lettmayer, T. Lampoltshammer (2016): Agent based image analysis (ABIA)-preliminary research results from an implemented framework. In: Proceedings of GEOBIA 2016: Solutions and Synergies (Enschede, Netherlands; September 14-16, 2016).

R. Feitosa, G.A.O.P. Costa, Peter Hofmann, P. Happ (2016): An object-based meta knowledge model for a distributed image interpretation system. In: Proceedings of GEOBIA 2016: Solutions and Synergies (Enschede, Netherlands; September 14-16, 2016).

Peter Hofmann (2016): Defuzzification Strategies for Fuzzy Classifications of Remote Sensing Data. In: Remote Sensing, vol. 8, no. 6, pp. 467-490.

P. Atkinson, P. Schmidt, Peter Hofmann, C. Zimmer, R. Marschallinger, E. Trinka, J. Sellner, M. Mühlau (2016): A MS-lesion pattern discrimination plot based on geostatistics. In: Brain and Behaviour, vol. 6, no. 3.

Peter Hofmann, C. Werthmann, H. Taubenböck (2015): Monitoring and Modelling of Informal Settlements – a Review on Recent Developments and Challenges. In: Proceedings of the 2015 Joint Urban Remote Sensing Event (JURSE) [Lausanne, Switzerland; March 30 - April 1, 2015].

R. Graf, Peter Hofmann, S. Wegenkittl, T. Blaschke, V. Andrejchenko, M. Belgiu, P. Lettmayer, T. Lampoltshammer (2015): Towards a framework for agent-based image analysis of remote-sensing data. In: International Journal of Image and Data Fusion, vol. 6, no. 2, pp. 115-137. DOI: 10.1080/19479832.2015.1015459.

Q. Chaudhry, A. Dudkiewicz, Boxall, A. B. A., K. Mølhave, Peter Hofmann, K. Tiede, Linsinger, T. P. J. (2015): Uncertainties of size measurements in electron microscopy characterization of nanomaterials in foods. In: Food Chemistry, vol. 176, no. June 1, pp. 472-479. DOI: 10.1016/j.foodchem.2014.12.071.

Peter Hofmann, R. Marschallinger, C. Leitner (2014): 3D-Modeling of deformed halite hopper crystals: Object based image analysis and support vector machine, a first evaluation. In: Geophysical Research Abstracts (Proceedings of the EGU General Assembly 2014; Vienna, Austria;April 27 - May 02, 2014), vol. 16.

Peter Hofmann (2014): Defining robustness measures for OBIA framework: A case study for detecting informal settlements. In: Global urban monitoring and assessment through earth observation, Boca Raton, Fla, vol. 10.

G. Ladurner, J. Kraus, A. Kunz, Peter Hofmann, S. Golaszewski, R. Marschallinger, E. Trinka, M. Kronbichler, M. McCoy (2014): Usability and Potential of Geostatistics for Spatial Discrimination of Multiple Sclerosis Lesion Patterns. In: Journal of Neuroimaging, vol. 24, no. 3, pp. 278-286.

Peter Hofmann, R. Marschallinger, C. Leitner (2014): 3D-modeling of deformed halite hopper crystals by Object Based Image Analysis. In: Computers & Geosciences, vol. 73, no. December, pp. 61-70.

Peter Hofmann, B. Hofer, M. Belgiu (2014): Coupling formalized knowledge bases with object-based image analysis. In: Remote Sensing Letters, vol. 5, no. 6, pp. 530-538.

D. Tiede, Peter Hofmann (2014): Image Segmentation Based on Hexagonal Sampling Grids. In: South-Eastern European Journal of Earth Observation and Geomatics, vol. 3, no. 2S, pp. 173-178.

R. Graf, Peter Hofmann, S. Wegenkittl, T. Blaschke, V. Andrejchenko, M. Belgiu, P. Lettmayer, T. Lampoltshammer (2014): ABIA – A Conceptual Framework for Agent Based Image Analysis. In: South-Eastern European Journal of Earth Observation and Geomatics, vol. 3, no. 2S, pp. 125-130.

D. Tiede, R. Queiroz Feitosa, M. Kelly, G. Hay, S. Lang, F. van Coillie, Peter Hofmann, van der Werff, H., E. Addink, T. Blaschke, van der Meer, F. (2014): Geographic Object-Based Image Analysis – Towards a new paradigm. In: ISPRS Journal of Photogrammetry & Remote Sensing, vol. 87, no. 1, pp. 180-191.

S. Golaszewski, J. Kraus, Peter Hofmann, R. Marschallinger, A. Kunz (2013): Some Brainwork: Geostatistics for Fingerprinting MS Lesion Patterns in Space and Time. In: Abstracts from the Spatial Statistics 2013 Conference (Ohio State University, Columbus, OH, USA; June 4-7, 2013), vol. Vol. 9.

M. Unterwurzacher, Peter Hofmann, F. Zobl, R. Marschallinger (2013): Marble provenance designation with Object Based Image Analysis: State-of-the-art rock fabric characterization from petrographic micrographs. In: Austrian Journal of Earth Sciences, vol. 106/2, no. 2, pp. 40-49.

Thomas Blaschke, Peter Hofmann (2012): Object based change detection using temporal linkages. In: Proceedings of the 4th Conference on Object-Based Image Analysis (GEOBIA) 2012 (Rio de Janeiro, Brazil;May 7-9, 2012).

M. Unterwurzacher, Peter Hofmann, F. Zobl, R. Marschallinger (2011): Designation of marble provenance: State-of-the-art rock fabric characterization in thin sections by object based image analysis. In: Proceedings of IAMG Conference 2011: Mathematical Geosciences at the Crossroads of Theory and Practice (Salzburg, Austria;September 5-9, 2011).

Peter Hofmann, R. Marschallinger, G. Daxner-Höck (2011): 3D Volumen-Modellierung fossiler Kleinsäugerzähne mittels Mikro-Computertomographie und objektbasierter Bildanalyse. In: Tagungsband zur 31. Wissenschaftlich-Technischen Jahrestagung der Deutschen Gesellschaft für Photogrammetrie, Fernerkundung und Geoinformation e.V. (DGPF) [Mainz;13.-15. April 2011), vol. 20.

Peter Hofmann, J. Strobl, T. Blaschke (2011): Quantifying the robustness of fuzzy rule sets in object-based image analysis. In: International Journal of Remote Sensing, vol. 32, no. 22, pp. 7359-7381.

R. Ketcham, Peter Hofmann, R. Marschallinger, G. Daxner-Höck (2011): Solid modeling of fossil small mammal teeth. In: Computers & Geosciences, vol. 37, no. 9, pp. 1364-1371.

A. Nazarkulova, Peter Hofmann, J. Strobl (2011): Mapping green spaces in Bishkek—how reliable can spatial analysis be?. In: Remote Sensing, vol. 3, no. 6, pp. 1088-1103.

A. Nazarkulova, Peter Hofmann, J. Strobl (2010): Green Spaces in Bishkek - A Satellite Perspective. In: Proceedings of the Fourth Central Asia GIS Conference GISCA'10 (Water: Life, Risk, Energy and Landuse) [Bishkek, Kyrgyzstan;May 27-28, 2010].

Peter Hofmann, R. Marschallinger (2010): The application of object based image analysis to petrographic micrographs. In: Microscopy. Science, technology, applications and education, Badajoz, vol. 2010, 4.

J. Wegner, U. Sörgel, G. Atay, P. Lohmann, Peter Hofmann (2009): Comparison of pixel based and feature based fusion of high resolution optical and SAR imagery. In: Remote sensing for a changing Europe (Proceedings of the 28th EARSeL Symposium of the Association of Remote Sensing Laboratories [Istanbul, Turkey; 2-5 June 2008]), Turkey.

S. Müller, P. Lohmann, Peter Hofmann (2008): Change Detection by Object-Based Change Indications. In: Proceedings of the 4th EARSeL Workshop on Remote Sensing for Developing Countries in Conjunction with GISDECO (June 4-7, 2008; Istanbul, Turkey].

Peter Hofmann, J. Strobl, T. Blaschke, H. Kux (2008): Detecting informal settlements from Quickbird data in Rio de Janeiro using an object based approach. In: Object-Based Image Analysis: Spatial Concepts for Knowledge-Driven Remote Sensing Applications, Berlin, Heidelberg.

C. Heipke, S. Müller, P. Lohmann, Peter Hofmann (2008): Concepts of an Object-Based Change Detection Process Chain for GIS Update. In: Proceedings of the XXIst ISPRS Congress (July 3-11, 2008; Beijing, China).

S. Müller, P. Lohmann, Peter Hofmann (2008): Updating GIS by object-based change detection. In: Geoinformatics Paves the Highway to Digital Earth, vol. 8.

C. Weise, O. Buck, P. Lohmann, Peter Hofmann, O. Buescher, S. Mueller, R. Schenkel (2008): Change Detection for Updating DeCOVER Object Classes. In: Photogrammetrie, Fernerkundung, Geoinformation (PFG), no. 5, pp. 395-407.

S. Müller, P. Lohmann, Peter Hofmann (2008): Concepts of an object-based change detection process chain for GIS update. In: International Archives of Photogrammetry and Remote Sensing, vol. 37, pp. 305-312.

D. Tiede, S. Lang, Möller, M. Araújo, E., Peter Hofmann, E. Schöpfer, I. Georg, T. Blaschke, H. Kux (2007): Möglichkeiten und Grenzen der Fernerkundung für das Monitoring und Safeguarding informeller Siedlungen: Eine Synthese. In: Vorträge Dreiländertagung/27. Wissenschaftlich-Technische Jahrestagung der Deutschen Gesellschaft für Photogrammetrie, Fernerkundung und Geoinformation e. V. (DGPF) [19.-21.06.2007;Basel-Muttenz, Schweiz], vol. Band 16 - Von der Medizintechnik bis zur Planetenforschung - Photogrammetrie und Fernerkundung für das 21. Jahrhundert.

Peter Hofmann (2005): Übertragbarkeit von Methoden und Verfahren in der objektorientierten Bildanalyse - das Beispiel informelle Siedlungen.

E. Dudley-Murphy, D. Card, L. Camp, J. Hipple, Peter Hofmann, M. Hernandez, E. Bjorgo, M. Ridd, R. Gillies, J. Chung (2005): Documenting Dynamics of Human Settlements (Chapter 10). In: Manual of Remote Sensing, New York.

S. Dehghani, M. Sohlbach, M. Weber, Peter Hofmann, M. Baatz, A. Höltje, M. Mimler, U. Benz, I. Lingenfelder, M. Heynen (2004): eCognition professional user guide 4.

M. Sohlbach, Ursula Benz, M. Weber, Peter Hofmann, A. Höltje, M. Mimler, Seyed Dehghani, Martin Baatz, I. Lingenfelder, M. Heynen (2004): eCognition user guide.

G. Willhauck, Peter Hofmann, U. Benz, I. Lingenfelder, M. Heynen (2004): Multi-resolution, object-oriented fuzzy analysis of remote sensing data for GIS-ready information. In: ISPRS Journal of Photogrammetry & Remote Sensing, vol. 58, no. 3-4, pp. 239-258. DOI: 10.1016/j.isprsjprs.2003.10.002.

Peter Hofmann (2001): Detecting urban features from IKONOS data using an object-oriented approach. In: Proceedings of the 1st Annual Conference of the Remote Sensing and Photogrammetry Society (RSPSoc) [London, England].

M. Weber, G. Willhauck, A. Schape, Peter Hofmann, M. Baatz, M. Mimier, I. Lingenfelder, M. Heynen (2001): eCognition User Guide 2.0: Object oriented image analysis.

Peter Hofmann (2001): Detecting informal settlements from IKONOS image data using methods of object oriented image analysis-an example from Cape Town (South Africa). In: Remote Sensing of Urban Areas/Fernerkundung in urbanen Räumen, Regensburg, vol. 35.

Peter Hofmann (2001): Detecting buildings and roads from IKONOS data using additional elevation information. In: GeoBIT/GIS, vol. 6, no. 01, pp. 28-33.

Peter Hofmann, W. Reinhardt (2000): The extraction of GIS features from high resolution imagery using advanced methods based on additional contextual information-first experiences. In: International Archives of Photogrammetry and Remote Sensing, vol. 33, no. B4/1; PART 4, pp. 376-383.

Peter Hofmann (1997): Die Anwendung fernerkundlicher Daten und Methoden im Geomarketing, untersucht am Beispiel einer KFA-1000-Aufnahme von München.

Peter Hofmann (1996): Multinationale Unternehmen in Schottland. In: Wirtschaftsraum, Ressourcen, Umwelt (WRU), vol. 8, pp. 54-58.