Refereed Journals (SCIE – Science Citation Index Expanded)

1) Lang, S., Füreder, P., Riedler, B., Wendt, L., Braun, A., Tiede, D., Schoepfer, E., Zeil, P., Spröhnle, K., Kulessa, K., Rogenhofer, E., Bäuerl, M., Öze, A., Schwendemann, G., Hochschild, V., 2019. Earth observation tools and services to increase the effectiveness of humanitarian assistance. Eur. J. Remote Sens. 00, 1–19. https://doi.org/10.1080/22797254.2019.1684208

2) Lang, S., Hay, G.J., Baraldi, A., Tiede, D., Blaschke, T., 2019. GEOBIA achievements and spatial opportunities in the era of big Earth observation data. ISPRS Int. J. Geo-Information 8, 1–20. https://doi.org/10.3390/ijgi8110474

3) Steinnocher, K., De Bono, A., Chatenoux, B., Tiede, D., Wendt, L., 2019. Estimating urban population patterns from stereo-satellite imagery. Eur. J. Remote Sens. 00, 1–14. https://doi.org/10.1080/22797254.2019.1604081

4) Zhao, W., Bo, Y., Chen, J., Tiede, D., Thomas, B., Emery, W.J., 2019. Exploring semantic elements for urban scene recognition: Deep integration of high-resolution imagery and OpenStreetMap (OSM). ISPRS J. Photogramm. Remote Sens. 151, 237–250. https://doi.org/10.1016/j.isprsjprs.2019.03.019

5) Sudmanns, M., Tiede, D., Lang, S., Bergstedt, H., Trost, G., Augustin, H., Baraldi, A., Blaschke, T., 2019. Big Earth data: disruptive changes in Earth observation data management and analysis? Int. J. Digit. Earth 0, 1–19. https://doi.org/10.1080/17538947.2019.1585976

6) Sudmanns, M., Tiede, D., Augustin, H., Lang, S., 2019. Assessing global Sentinel-2 coverage dynamics and data availability for operational Earth observation (EO) applications using the EO-Compass. Int. J. Digit. Earth 0, 1–17. https://doi.org/10.1080/17538947.2019.1572799

7) Ghorbanzadeh, O., Blaschke, T., Gholamnia, K., Meena, S.R., Tiede, D., Aryal, J., 2019. Evaluation of Different Machine Learning Methods and Deep-Learning Convolutional Neural Networks for Landslide Detection. Remote Sens. 11. https://doi.org/10.3390/rs11020196

8) Antunes, R.R., Blaschke, T., Tiede, D., Bias, E.S., Costa, G.A.O.P., Happ, P.N., 2019. Proof of concept of a novel cloud computing approach for object-based remote sensing data analysis and classification. GIScience Remote Sens. 56, 536–553. https://doi.org/10.1080/15481603.2018.1538621

9) Baraldi, A., Tiede, D., 2018. AutoCloud+, a "Universal" Physical and Statistical Model-Based 2D Spatial Topology-Preserving Software for Cloud/Cloud–Shadow Detection in Multi-Sensor Single-Date Earth Observation Multi-Spectral Imagery—Part 1: Systematic ESA EO Level 2 Product Generati. ISPRS Int. J. Geo-Information 7, 457. https://doi.org/10.3390/ijgi7120457

10) Wessel, M., Brandmeier, M., Tiede, D., 2018. Evaluation of Different Machine Learning Algorithms for Scalable Classification of Tree Types and Tree Species Based on Sentinel-2 Data. Remote Sens. 10. https://doi.org/10.3390/rs10091419

11) Sudmanns, M., Tiede, D., Lang, S., Baraldi, A., 2018. Semantic and syntactic interoperability in online processing of big Earth observation data. Int. J. Digit. Earth 0, 1–18. doi:10.1080/17538947.2017.1332112

12) Tiede, D., Baraldi, A., Sudmanns, M., Belgiu, M., Lang, S., 2017. Architecture and Prototypical Implementation of a Semantic Querying System for Big Earth Observation Image Bases. Eur. J. Remote Sens. 50, 452–463. doi:10.1080/22797254.2017.1357432

13) Feizizadeh, B., Blaschke, T., Tiede, D., Moghaddam, M.H.R., 2017. Evaluating fuzzy operators of an object-based image analysis for detecting landslides and their changes. Geomorphology. doi:10.1016/j.geomorph.2017.06.002

14) Tiede, D., Krafft, P., Füreder, P., Lang, S., 2017. Stratified Template Matching to Support Refugee Camp Analysis in OBIA Workflows. Remote Sens. 9, 326. doi:10.3390/rs9040326

15) Ma, L., Fu, T., Blaschke, T., Li, M., Tiede, D., Zhou, Z., 2017. Evaluation of Feature Selection Methods for Object-Based Land Cover Mapping of Unmanned Aerial Vehicle Imagery Using Random Forest and Support Vector Machine Classifiers. ISPRS Int. J. Geo-Information 6, 21. doi:10.3390/ijgi6020051

16) Luethje, F., Tiede, D., Eisank, C., 2017. Terrain Extraction in Built-Up Areas from Satellite Stereo-Imagery-Derived Surface Models: A Stratified Object-Based Approach. ISPRS Int. J. Geo-Information 6, 1–13. doi:10.3390/ijgi6010009

17) Wei, C., Blaschke, T., Kazakopoulos, P., Taubenböck, H., Tiede, D., 2017. Is Spatial Resolution Critical in Urbanization Velocity Analysis? Investigations in the Pearl River Delta. Remote Sens. 9, 1–25. doi:10.3390/rs9010080

18) Adamczyk, J., & Tiede, D. (2017). ZonalMetrics - a Python toolbox for zonal landscape structure analysis. Computers & Geosciences, 99, 91–99. https://doi.org/10.1016/j.cageo.2016.11.005

19) Kienberger, S., Spiekermann, R., Tiede, D., Zeiler, I., Bussink, C., 2017. Spatial risk assessment of opium poppy cultivation in Afghanistan: integrating environmental and socio-economic drivers. Int. J. Digit. Earth 10, 719–736. doi:10.1080/17538947.2016.1250828

20) Ma, L., Li, M., Blaschke, T., Ma, X., Tiede, D., Cheng, L., Chen, Z., Chen, D., 2016. Object-Based Change Detection in Urban Areas : The Effects of Segmentation Strategy , Scale , and Feature Space on Unsupervised Methods. Remote Sensing 8, 1–18.

21) Vo, A.-V., Truong-Hong, L., Laefer, D.F., Tiede, D., D'Oleire-Oltmanns, S., Baraldi, A., Shimoni, M., Moser, G., Tuia, D., 2016. Processing of Extremely High Resolution LiDAR and RGB Data: Outcome of the 2015 IEEE GRSS Data Fusion Contest—Part B: 3-D Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing 1–16.

22) Tomljenovic, I., Tiede, D., Blaschke, T., 2016. A building extraction approach for Airborne Laser Scanner data utilizing the Object Based Image Analysis paradigm. International Journal of Applied Earth Observation and Geoinformation 52, 137–148.

23) Li, M., Ma, L., Blaschke, T., Cheng, L., Tiede, D., 2016. A systematic comparison of different object-based classification techniques using high spatial resolution imagery in agricultural environments. International Journal of Applied Earth Observation and Geoinformation 49, 87–98.

24) Contreras, D., Blaschke, T., Tiede, D., Jilge, M., 2016. Monitoring recovery after earthquakes through the integration of remote sensing, GIS, and ground observations: the case of L'Aquila (Italy). Cartography and Geographic Information Science 43, 115–133.

25) Dudkiewicz, A., Wagner, S., Lehner, A., Chaudhry, Q., Pietravalle, S., Tiede, K., Boxall, A.B., Allmaier, G., Tiede, D., Grombe, R., von der Kammer, F., Hofmann, T., Mølhave, K., 2015. A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. The Analyst. http://pubs.rsc.org/en/content/articlehtml/2015/an/c5an00561b

26) Tomljenovic, I., Höfle, B., Tiede, D., Blaschke, T., 2015. Building Extraction from Airborne Laser Scanning Data: An Analysis of the State of the Art. Remote Sensing 7, 3826–3862. http://www.mdpi.com/2072-4292/7/4/3826

27) Spröhnle, K., Tiede, D., Schoepfer, E., Füreder, P., Svanberg, A., Rost, T., 2014. Earth Observation-Based Dwelling Detection Approaches in a Highly Complex Refugee Camp Environment — A Comparative Study. Remote Sensing. Doi: 10.3390/rs6109277 http://www.mdpi.com/2072-4292/6/10/9277

28) D'Oleire-Oltmanns, S., Marzolff, I., Tiede, D., Blaschke, T., 2014. Detection of Gully-Affected Areas by Applying Object-Based Image Analysis (OBIA) in the Region of Taroudannt, Morocco. Remote Sensing 6, 8287–8309. http://www.mdpi.com/2072-4292/6/9/8287

29) Tiede, D., 2014. A new geospatial overlay method for the analysis and visualization of spatial change patterns using object-oriented data modeling concepts. Cartography and Geographic Information Science 41, 227–234. http://dx.doi.org/10.1080/15230406.2014.901900

30) Lang, S., Kienberger, S., Tiede, D., Hagenlocher, M., Pernkopf, L., 2014. Geons – domain-specific regionalization of space. Cartography and Geographic Information Science 41, 214–226. http://dx.doi.org/10.1080/15230406.2014.902755

31) Drăguţ, L., Csillik, O., Eisank, C., Tiede, D., 2014. Automated parameterisation for multi-scale image segmentation on multiple layers. ISPRS Journal of Photogrammetry and Remote Sensing 88, 119–127. http://www.sciencedirect.com/science/article/pii/S0924271613002803

32) Blaschke, T., Hay, G.J., Kelly, M., Lang, S., Hofmann, P., Addink, E., Queiroz Feitosa, R., van der Meer, F., van der Werff, H., van Coillie, F., Tiede, D., 2014. Geographic Object-Based Image Analysis – Towards a new paradigm. ISPRS Journal of Photogrammetry and Remote Sensing 87, 180–191. http://www.sciencedirect.com/science/article/pii/S0924271613002220

33) Hagenlocher, M., Lang, S., Hölbling, D., Tiede, D., Kienberger, S., 2014. Modeling Hotspots of Climate Change in the Sahel Using Object-Based Regionalization of Multidimensional Gridded Datasets. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing 7, 229–234. http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6515704

34) Wania, A., Kemper, T., Tiede, D., Zeil, P., 2014. Mapping recent built-up area changes in the city of Harare with high resolution satellite imagery. Applied Geography 46, 35–44. http://linkinghub.elsevier.com/retrieve/pii/S0143622813002440

35) Tiede, D., Füreder, P., Lang, S., Hölbling, D., Zeil, P., 2013. Automated Analysis of Satellite Imagery to provide Information Products for Humanitarian Relief Operations in Refugee Camps - from Scientific Development towards Operational Services. PFG Photogrammetrie, Fernerkundung, Geoinformation 2013, 185–195.

36) Hagenlocher, M., Lang, S., Tiede, D., 2012. Integrated assessment of the environmental impact of an IDP camp in Sudan based on very high resolution multi-temporal satellite imagery. Remote Sensing of Environment 126, 27-38. http://www.sciencedirect.com/science/article/pii/S0034425712003227

37) Hernando, A., Tiede, D., Albrecht, F., Lang, S., 2012. Spatial and thematic assessment of object-based forest stand delineation using an OFA-matrix. International Journal of Applied Earth Observation and Geoinformation 19, 214-225, http://www.sciencedirect.com/science/article/pii/S0303243412001158

38) Tiede, D., Lang, S., Füreder, P., Hölbling, D., Hoffmann, C., Zeil, P., 2011. Automated damage indication for rapid geospatial reporting. An operational object-based approach to damage density mapping following the 2010 Haiti earthquake. Photogrammetric Engineering & Remote Sensing, 77 (9), 933-942. http://digital.ipcprintservices.com/publication/?i=78634

39) Johansen, K., Tiede, D., Blaschke, T., Arroyo, L. A., Phinn, S., 2011. Automatic Geographic Object Based Mapping of Streambed and Riparian Zone Extent from LiDAR Data in a Temperate Rural Urban Environment, Australia. Remote Sensing, 3 (6), 1139-1156. http://www.mdpi.com/2072-4292/3/6/1139/pdf

40) Tiede, K., Boxall, A. B. A., Wang, X., Gore, D., Tiede, D., Baxter, M., David, H., Tear, S. P., Lewis, J., 2010. Application of hydrodynamic chromatography-ICP-MS to investigate the fate of silver nanoparticles in activated sludge. Journal of Analytical Atomic Spectrometry (25), 1149 - 1154. DOI: 10.1039/b926029c

41) Lang, S., Tiede, D., Hölbling, D., Füreder, P., Zeil, P., 2010. Earth observation (EO)-based ex post assessment of internally displaced person (IDP) camp evolution and population dynamics in Zam Zam, Darfur. International Journal of Remote Sensing, 31 (21), 5709 - 5731.

42) Lang, S., Albrecht, F., Kienberger, S., Tiede, D., 2010. Object validity for operational tasks in a policy context. Journal of Spatial Science, 55 (1), 9 — 22. http://dx.doi.org/10.1080/14498596.2010.48763

43) Dragut, L., Tiede, D., Levick, S. R., 2010. ESP: a tool to estimate scale parameter for multiresolution image segmentation of remotely sensed data. International Journal of Geographical Information Science, 24 (6), 859-871.http://www.informaworld.com/smpp/content~db=all~content=a919605464

44) Tiede, D., Lang, S., 2010. Analytical 3D views and virtual globes - scientific results in a familiar spatial context. ISPRS Journal of Photogrammetry and Remote Sensing, 65 (3), 300-307. http://www.sciencedirect.com/science/article/B6VF4-4Y3K13K-1/2/fcf3757543d8e88851223ee882b1b2a9

45) Tiede, D., Lang, S., Albrecht, F., Hölbling, D., 2010. Object-based class modeling for cadastre-constrained delineation of geo-objects. Photogrammetric Engineering & Remote Sensing., 76 (2), 193-202.

46) Tiede, K., Boxall, A. B. A., Tiede, D., Tear, S. P., David, H., Lewis, J., 2009. A robust size-characterisation methodology for studying nanoparticle behaviour in 'real' environmental samples, using hydrodynamic chromatography coupled to ICP-MS. Journal of Analytical Atomic Spectrometry (24), 964 - 972.

47) Lang, S., D. Tiede & F. Hofer, 2006. Modeling ephemeral settlements using VHSR image data and 3D visualisation – the example of Goz Amer refugee camp in Chad. In: PFG - Photogrammetrie, Fernerkundung, Geoinformatik, Special Issue: Urban Remote Sensing, 4/2006, 327-337.

Refereed Journals (ESCI - Emerging Sources Citation Index and non-SCIE listed)

48) Augustin, H., Sudmanns, M., Tiede, D., Lang, S., Baraldi, A., 2019. Semantic Earth Observation Data Cubes. Data 4. https://doi.org/10.3390/data4030102

49) Hennig, S., Hölbling, D., Ferber, N., Tiede, D., 2019. Rahmenkonzept und Komponenten für Citizen- Science-Projekte – das Projekt citizenMorph. Agit Journal für Angew. Geoinformatik 5, 2–13. https://doi.org/10.14627/537669001

50) Baraldi, A., Humber, M.L., Tiede, D., Lang, S., 2018. GEO-CEOS stage 4 validation of the Satellite Image Automatic Mapper lightweight computer program for ESA Earth observation level 2 product generation - Part 1: Theory. Cogent Geosci. 4, 1–46. https://doi.org/10.1080/23312041.2018.1467357

51) Baraldi, A., Humber, M.L., Tiede, D., Lang, S., 2018. GEO-CEOS stage 4 validation of the Satellite Image Automatic Mapper lightweight computer program for ESA Earth observation level 2 product generation – Part 2: Validation. Cogent Geosci. 4, 1–52. https://doi.org/10.1080/23312041.2018.1467254

52) Augustin, H., Sudmanns, M., **Tiede, D.**, Baraldi, A., 2018. A Semantic Earth Observation Data Cube for Monitoring Environmental Changes during the Syrian Conflict. GI_Forum 1, 214–227. https://doi.org/10.1553/giscience2018_01_s214

53) Wendt, L., **Tiede, D.**, Kulessa, K., Steinnocher, K., Chatenoux, B., Bono, A. De, Lang, S., 2018. Bevölkerungsabschätzung in Städten anhand von Stereo-Bildpaarungen , die nicht am selben Tag aufgenommen wurden. Agit – J. für Angew. Geoinformatik, 4-2018 264–270. https://doi.org/10.14627/537647034

54) Sudmanns, M., Lang, S., **Tiede, D.**, 2018. Big Earth Data: From Data to Information. GI_Forum 1, 184–193. https://doi.org/10.1553/giscience2018_01_s184

55) Sudmanns, M., Tiede, D., Wendt, L., Baraldi, A., 2017. Automatic Ex-post Flood Assessment Using Long Time Series of Optical Earth Observation Images. GI-Forum J. Geogr. Inf. Sci. 1, 217–227. doi:10.1553/giscience2017_01_s217

56) Tiede, D., Sudmanns, M., Baraldi, A., Belgiu, M., Lang, S., 2016. ImageQuerying – prototypische Implementierung eines Systems zur raumzeitlichen und inhaltsbasier- ten Satellitenbildsuche und Satellitenbildanalyse. AGIT – Journal für Angewandte Geoinformatik 2, 80–85.

57) Lüthje, F., Tiede, D., Füreder, P., 2015. Don ' t See the Dwellings for the Trees : Quantifying the Effect of Tree Growth on Multi-temporal Dwelling Extraction in a Refugee Camp, in: GI_Forum 2015 – Geospatial Minds for Society. pp. 406–415.

58) Hagenlocher, M., Tiede, D., Wendt, L., Lang, S., 2015. An Earth Observation-based Approach for the Assessment of the Environmental Impact of Refugee and IDP Camps, in: GI_Forum 2015 – Geospatial Minds for Society. pp. 420–423.

59) Langer, S., Tiede, D., Lüthje, F., 2015. Long-term Monitoring of the Environmental Impact of a Refugee Camp Based on Landsat Time Series : The Example of Deforestation and Reforestation Dur- ing the whole Lifespan of the Camp Lukole , Tanzania, in: GI_Forum 2015 – Geospatial Minds for Society. pp. 434–437.

60) Füreder, P., Lang, S., Rogenhofer, E., Tiede, D., Papp, A., 2015. Monitoring Displaced People in Crisis Situations Using Multi-temporal VHR Satellite Data During Humanitarian Operations in South Sudan, in: GI_Forum 2015 – Geospatial Minds for Society. pp. 391–401.

61) Hofmann, P., Tiede, D., 2014. Image segmentation based on hexagonal sampling grids. South-Eastern European Journal of Earth Observation and Geomatics 3, 173–177.

62) Feizizadeh, B., Tiede, D., Moghaddam, H.M.R., Blaschke, T., 2014. Systematic evaluation of fuzzy operators for Object-Based Landslide mapping. South-Eastern European Journal of Earth Observation and Geomatics 3, 219–222.

63) Lüthje, F., Tiede, D., Eisank, C., 2014. Object-based DTM generation from VHR stereo imagery derived DSM data sets. South-Eastern European Journal of Earth Observation and Geomatics 3, 109–113.

64) Tomljenovic, I., Blaschke, T., Höfle, B., Tiede, D., 2014. Potential and idiosyncrasy of object-based image analysis for airborne Lidar-based building detection. South-Eastern European Journal of Earth Observation and Geomatics 3, 517–520.

65) Füreder, P., Tiede, D., Lüthje, F., Lang, S., 2014. Object-based dwelling extraction in refugee/IDP camp - challenges in an operational mode. South-Eastern European Journal of Earth Observation and Geomatics 3, 539–543.

66) Lang, S., Hagenlocher, M., Pernkopf, L., Kienberger, S., Tiede, D., 2014. Object-based multi-indicator representation of complex spatial phenomena. South-Eastern European Journal of Earth Observation and Geomatics 3, 625–628.

67) Oltmanns, O., Tiede, D., 2014. Specific target objects - specific scale levels ? Application of the estimation of scale parameter 2 (ESP 2) tool for the identification of scale levels for distinct target objects. South-Eastern European Journal of Earth Observation and Geomatics 3, 579–583.

68) Khamphilung, S., Strobl, J., Tiede, D., 2013. Village Forms Classification by Object-based Image Analysis. Int. J. Geoinformatics 9, 59–68.

69) Blaschke, T., Donert, K., Gossette, F., Kienberger, S., Marani, M., Qureshi, S., Tiede, D., 2012. Virtual Globes: Serving Science and Society. Information 3, 372-390. http://www.mdpi.com/2078-2489/3/3/372

Book Chapters

70) Lang, S., Tiede, D., 2015. Geospatial Data Integration in OBIA: Implications of Accuracy and Validity, in: Thenkabail, P.S.. (Ed.), Remotely Sensed Data Characterization, Classification, and Accuracies. CRC Press 2015, pp. 295–316.

71) Blaschke, T., Johansen, K., Tiede, D., 2011. Object-Based Image Analysis for Vegetation Mapping and Monitoring. In: Q. Weng (Eds.), Advances in Environmental Remote Sensing: Sensors, Algorithms, and Applications. Taylor & Francis, London, pp. 241-271.

72) Kranz, O., Lang, S., Tiede, D., Zeug, G., Kemper, T., Caspard, M., Clandillon, S., 2010. GMES Services for Conflict Prevention and Mitigation: Support the DG RELEX in Mission Planning. In: M. Konecny, S. Zlatanova, T. L. Bandrova (Eds.), Geoinformation and cartography for early warning and crisis response. Springer, New York, pp. 179-188.

73) Kranz, O., Zeug, G., Tiede, D., Clandillon, S., Bruckert, Kemper, T., Lang, S., Caspard, M., 2010. Monitoring Refugee/IDP camps to Support International Relief Action. In: Altan, O., Backhaus, R., Piero Boccardo, P., Zlatanova, S. (eds.): Geoinformation for Disaster and Risk Management - Examples and Best Practices. Joint Board of Geospatial Information Societies (JB GIS), United Nations Office for Outer Space Affairs(UNOOSA), pp 51-56

74) Meisner, R., Lang, S., Jungert, E., Almer, A., Tiede, D., Sparwasser, N., Mertens, K., Göbel, R., Blaschke, T., de la Cruz, A., Stelzl, H., Silvervarg, K., 2009. Data Integration and Visualization for Crisis Applications. In: B. Jasani, M. Pesaresi, S. Schneiderbauer, G. Zeug (Eds.), Remote Sensing from Space Supporting International Peace and Security. Springer Netherlands, Berlin, pp. 141-160.

75) Ehrlich, D., Lang, S., Laneve, G., Mubareka, S., Schneiderbauer, S., Tiede, D., 2009. Can Earth Observation Help to Improve Information on Population? Indirect Population Estimations from EO Derived Geo-Spatial Data: Contribution from GMOSS. In: B. Jasani, M. Pesaresi, S. Schneiderbauer, G. Zeug (Eds.), Remote Sensing from Space Supporting International Peace and Security. Springer Netherlands, Berlin, pp. 211-237.

76) Tiede, D., S. Lang & C. Hoffmann, 2008. Type-specific class modelling for one-level representation of single trees. In: Object-Based Image Analysis - Spatial concepts for knowledge-driven remote sensing applications T. Blaschke, S. Lang, G. Hay (eds.). Berlin: Springer, pp. 133-151

77) Maier B., D. Tiede, L. Dorren, 2008. Characterizing Mountain Forest Structure using Landscape metrics on LiDAR-based Canopy Surface Models In: Object-Based Image Analysis - Spatial concepts for knowledge-driven remote sensing applications T. Blaschke, S. Lang, G. Hay (eds.). Berlin: Springer, pp. 625-643

78) Tiede, D. and Lang, S., 2007. Pseudo-realistic and analytical 3D views – conditioned information for security scenarios. In: Global monitoring for security and stability (GMOSS), Zeug, G. and Pesaresi, M. (eds.). JRC Scientific and Technical Reports, EUR 23033 EN - 2007, 251-259

79) Lang, S., Schöpfer, E., Uttenthaler, A., Tiede, D. and Zeil, P., 2007. From change indication to fine-scale population monitoring: Disaster management, post conflict assessment and reconstruction monitoring in Harare, Zimbabwe.In: Global monitoring for security and stability (GMOSS), Zeug, G. and Pesaresi, M. (eds.). JRC Scientific and Technical Reports, EUR 23033 EN - 2007, 185-193

80) Weinke, E., Lang, S. & Tiede, D., 2007. Landscape Interpretation Support Tool (LIST). Entwicklerforum Geoinformationstechnik 2007. Shaker Verlag. ISBN: 978-3-8322-6403-1

81) Lang, S., Tiede, D., Maier, B., Blaschke, T., 2006. 3D Forest structure analysis from optical and LIDAR data. Revista Ambiência, Guarapuava, v.2 Edição Especial 1, 95-110, 2006

82) Blaschke, Thomas; Meisner, Robert; Almer, Alexander; Stelzl, Harald; Sparwasser, Nils; Tiede, Dirk; Lang, Stefan, 2006. Kartographie „on demand“: Generierung virtueller Landschaften aus Fernerkundungs- und GIS-Daten. In: Deutsche Gesellschaft für Kartographie; Dransch, Doris [Hrsg.]: 2006 GEOVIS, Kartographische Schriften - Aktuelle Entwicklungen in Geoinformation und Visualisierung, 10, Kirschbaum Verlag Bonn, S. 27 - 36, GEOVIS 2006, Potsdam, 2006-04-05 - 2006-04-06, ISBN 3781216462.

83) Tiede, D., Eisl, M. and T. Blaschke, 2005. The role of georeferenced information and geo-gazetteers in the content engineering value chain. In: Reich, S. (Hrsg.) (2005): Digital Content Engineering. Content Plattformen in Theorie und Praxis. Trauner Verlag, 25 – 41.

84) Tiede, D. and T. Blaschke, 2005. Visualisierung und Analyse in 2,5D- und 3D-GIS – von loser Kopplung zu voller Integration? Beispiele anhand kommerzieller Produkte. In: Coors, V. und Zipf, A. (Hrsg.): 3D-Geoinformationssysteme. Grundlagen und Anwendungen. Wichmann Verlag, Heidelberg, 280 -292.

Refereed Conference Papers

85) Augustin, H., Sudmanns, M., Tiede, D., Baraldi, A., 2019. Semantic Data Cubes Utilising Free and Open-Access EO-Data to Generate Spatially-Explicit Evidence for Environ- mental Monitoring : Applied Use-Case in Syria Based on Sentinel-2 Data, in: Kersten, T.P. (Ed.), Dreiländertagung OVG – DGPF – SGPF Photogrammetrie - Fernerkundung - Geoinformation - 2019. Vienna, pp. 702–710.

86) Tiede, D., Sudmanns, M., Augustin, H., Lang, S., Baraldi, A., 2019. Sentinel-2 Semantic Data & Information Cube Austria, in: Soille, P., Loekken, S., Albani, S. (Eds.), Proceedings of 2019 Big Data from Space (BiDS'19). Publications Office of the European Union, pp. 65–68. https://doi.org/10.2760/848593

87) Sudmanns, M., Lang, S., **Tiede, D.**, Werner, C., Augustin, H., Baraldi, A., 2018. Abstract Data Types for Spatio-Temporal Remote Sensing Analysis (Short Paper), in: Winter, S., Griffin, A., Sester, M. (Eds.), 10th International Conference on Geographic Information Science (GIScience 2018), Leibniz International Proceedings in Informatics (LIPIcs). Schloss Dagstuhl--Leibniz-Zentrum fuer Informatik, Dagstuhl, Germany, p. 60:1--60:7. https://doi.org/10.4230/LIPIcs.GISCIENCE.2018.60

88) Ghorbanzadeh, O., **Tiede, D.**, Dabiri, Z., Sudmanns, M., Lang, S., 2018. Dwelling extraction in refugee camps using CNN - first experiences and lessons learnt, in: The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. pp. 161–168.

89) Augustin, H., Sudmanns, M., **Tiede, D.,** Baraldi, A., 2019. Semantic Data Cubes Utilising Free and Open-Access EO-Data to Generate Spatially-Explicit Evidence for Environ- mental Monitoring : Applied Use-Case in Syria Based on Sentinel-2 Data, in: Kersten, T.P. (Ed.), Dreiländertagung OVG – DGPF – SGPF Photogrammetrie - Fernerkundung - Geoinformation - 2019. Vienna, pp. 702–710.

90) **Tiede, D.,** Sudmanns, M., Augustin, H., Lang, S., Baraldi, A., 2019. Sentinel-2 Semantic Data & Information Cube Austria, in: Soille, P., Loekken, S., Albani, S. (Eds.), Proceedings of 2019 Big Data from Space (BiDS'19). Publications Office of the European Union, pp. 65–68. https://doi.org/10.2760/848593

91) Blaschke, T., Lang, S., Tiede, D., Papadakis, M., Györi, A., 2016. Object-based image analysis beyond remote sensing - the human perspective, in: ISPRS Congress . Prague.

92) Belgiu, M., Sudmanns, M., Tiede, D., Baraldi, A., Lang, S., 2016. Spatiotemporal enabled content-based image retrieval GIScience 2016. Montreal, in: GIScience 2016.

93) Baraldi, A., Tiede, D., Sudmanns, M., Belgiu, M., Lang, S., 2016. Automated Near Real-Time Earth Observation Level 2 Product Generation for Semantic Querying, in: Kerle, N., Gerke, M., Lefèvre, S. (Eds.), GEOBIA 2016:

Solutions and Synergies. University of Twente Faculty of Geo-Information and Earth Observation (ITC). ISBN 9789036542012.

94) d'Oleire-Oltmanns, S., Gerasch, S., Tiede, D., Lang, S., 2016. Small scale landform mapping by integrated optical (2D) and terrain (3D) UAV data, in: Kerle, N., Gerke, M., Lefèvre, S. (Eds.), GEOBIA 2016: Solutions and Synergies. University of Twente Faculty of Geo-Information and Earth Observation (ITC). ISBN 9789036542012.

95) Krafft, P., Tiede, D., Füreder, P., 2016. Template Matching to Support Earth Observation Based Refugee Camp Analysis in OBIA Workflows - Creation and Evaluation of a Dwelling Template Library for Improving Dwelling Extraction, in: Kerle, N., Gerke, M., Lefèvre, S. (Eds.), GEOBIA 2016: Solutions and Synergies. University of Twente Faculty of Geo-Information and Earth Observation (ITC). ISBN 9789036542012.

96) Sudmanns, M., Tiede, D., Augsten, N., Baraldi, A., Belgiu, M., Lang, S., 2016. Array-Datenbanken für semantische inhaltsbasierte Suche und Analyse in Satellitenbildarchiven, in: Dreiländertagung Der DGPF, Der OVG Und Der SGPF in Bern, Schweiz – Publikationen Der DGPF, Band 25. pp. 555–564.

97) Tiede, D., Baraldi, A., Sudmanns, M., Belgiu, M., Lang, S., 2016. ImageQuerying – Earth Observation Image Content Extraction & Querying across Time and Space, in: Soille, P., Marchetti, P.G. (Eds.), Proceedings of the 2016 Conference on Big Data from Space (BiDS'16) : 15th-17th March 2016. Santa Cruz de Tenerife (Spain), pp. 192–195.

98) Füreder, P., Lang, S., Hagenlocher, M., Tiede, D., Wendt, L., Rogenhofer, E., 2015. Earth observation and GIS to support humanitarian operations in refugee/IDP camps, in: Proceedings of the ISCRAM 2015 Conference - Kristiansand, May 24-27. p. 7.

99) Stängel, M., Tiede, D., Lüthje, F., Füreder, P., Lang, S., 2014. Object-based Image Analysis Using VHR Satellite Imagery for Monitoring the Dismantling of a Refugee Camp after a Crisis : The Case of Lukole , Tanzania, in: Vogler, R., Car, A., Strobl, J., Griesebner, G. (Eds.), GI_Forum 2014 - Geospatial Innovation for Society. Austrian Academy of Sciences Press, Vienna, pp. 45–48.

100) Tiede, D., Lüthje, F., Baraldi, A., 2014. Automatic post-classification land cover change detection in Landsat images: Analysis of changes in agricultural areas during the Syrian crisis, in: Seyfert, E., Gülch, E., Heipke, C., Schiewe, J., Sester, M. (Eds.), Publikationen Der Deutschen Gesellschaft Für Photogrammetrie, Fernerkundung Und Geoinformation (DGPF) e.V. Band 23. Potsdam.

101) Lang, S., Tiede, D., Hölbling, D., Füreder, P., Zeil, P., 2009. Conditioning land-use information across scales and borders. In: A. Car, G. Griesebner, J. Strobl (Eds.), Geospatial Crossroads GI_Forum '09 - Proceedings of the Geoinformatics Forum Salzburg. Wichmann, Heidelberg, pp. 100-109.

102) Tiede, D., Moeller, M., Lang, S., & Hoelbling, D., 2007. Adapting, Splitting and Merging Cadastral Boundaries according to homogenous LULC Types Derived from SPOT 5 Data; In: Stilla U et al (Eds) PIA07. International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, 36 (3/W49A), 99-104

103) Tiede, D. and J. Strobl, 2006. Polygon-based Regionalisation in a GIS Environment. In: Buhmann, E., Ervin, S., Jørgensen, I., Strobl, J. (eds.): Trends in Knowledge-Based Landscape Modeling. Wichmann-Verlag, Heidelberg, 54-59. http://www.masterla.de/conf/pdf/conf2006/23Tiede_L.pdf

104) Tiede, D., G. Hochleitner and T. Blaschke, 2005. A full GIS-based workflow for tree identification and delineation using laser scanning. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences. Vol. XXXVI, Part 3/W24, Vienna, pp. 9 – 14. http://www.commission3.isprs.org/cmrt05/papers/CMRT05_Tiede_et_al.pdf

105) Tiede, D., Blaschke, T., 2005. A two-way workflow for integrating CAD, 3D visualization and spatial analysis in a GIS environment, in: Buhmann, E., Paar, P., Bishop, I., Lange, E. (Eds.), The 6 Th International Conference for Information Technologies in Landscape Architecture: Real-Time Visualization and Participation, Visualization in Landscape Architecture. Wichmann, pp. 77–87.

Professional Journals

106) Tiede, D., 2013. GeoPDF-Erstellung und Nutzung mit TerraGo für ArcGIS und Adobe Reader. GIS Business 01-02/2013, 44-49.

107) Lang, S., Tiede, D., 2010. Rapid Geospatial Reporting. Erfahrungen mit automatisierter Schadensanalyse nach den Erdbeben in Haiti und Chile. GIS Business. ISSN: 1869-9286 (2), 42-43.

108) Kienberger, S. & Tiede, D. ,2008. ArcGIS Explorer Review: Is This Yet Another Virtual Globe? GeoInformatics , 11(2), 42-47. www.esri.com/library/reprints/pdfs/geoinformatics-arcgis-explorer.pdf

109) Lang, S. und Tiede, D., 2007. Definiens Developer – Snapshot. In: GIS Business, Geoinformationstechnologie für die Praxis, ISSN-Nr. 1430-3663, Heft 9/2007 S. 34-37. English version: http://www.definiens.com/scientific-papers_1_24_25_3.html#anchorlang

110) Kienberger, S. und Tiede, D., 2006. ArcGIS Explorer – Snapshot. In: GISBusiness, Heft 12/2006, S. 42-45.

111) Tiede, D. und S. Lang, 2005. SketchUp 4.0 – Snapshot. In: GeoBIT, Heft 7/2005, S. 42-45.

Conference Papers

112) Lang, S., Füreder, P., Riedler, B., Wendt, L., **Tiede, D.**, Sebastian, D.-O., Schoepfer, E., Spröhnle, K., Braun, A., Hochschild, V., Zeil, P., Rogenhofer, E., Bäuerl, M., 2018. EO4Hum – a geospatial information service to boost the effectiveness of humanitarian assistance, in: 38th EARSeL Symposium. Chania, Crete, Greece, p. Abstract.

113) Wessel, M., Brandmeier, M., **Tiede, D.**, Seitz, R., Straub, C., 2018. Comparison of Different Machine-Learning Algorithms for Tree Species Classification Based on Sentinel Data, in: PFGK18 : Photogrammetrie - Fernerkundung - Geoinformatik - Kartographie - 2018. p. Abstract.

114) Albrecht, F., Blaschke, T., Lang, S., Abdulmutalib, H.M., Batini, C., Bartsch, A., **Tiede, D.**, Huang, G., Municipality, D., 2018. Providing Data Quality Information for Remote Sensing, in: The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. pp. 7–10.

115) Friedl, B., Hölbling, D., **Tiede, D.**, Dittrich, J., Robson, B.A., Saemundsson, T., Pedersen, G.B.M., 2018. Object-Based Tracking Of Rock Avalanche Deposits On Glaciers Using Multi-Temporal Remote Sensing Data, in: 38th EARSeL Symposium. Chania, Crete, Greece, p. Abstract.

116) Baraldi, A., Tiede, D., Sudmanns, M., Lang, S., 2017. Systematic ESA EO- level 2 product generation as pre-condition to semantic content-based image retrieval and information / knowledge discovery in EO image databases, in: Soille, P., Marchetti, P.G. (Eds.), Proceedings of the 2017 Conference on Big Data from Space. BIDS' 2017. Publications Office of the European Union, Luxembourg, 2017, pp. 17–20. doi:10.2760/383579

117) Sudmanns, M., Augustin, H., Cavallaro, A.-M., Tiede, D., Lang, S., 2017. Sentinel-2 Dashboard for spatio-temporal analysis of global scene coverage, in: Soille, P., Marchetti, P.G. (Eds.), Proceedings of the 2017 Conference on Big Data from Space. BIDS' 2017. Publications Office of the European Union, Luxembourg, 2017, pp. 173–176. doi:10.2760/383579

118) Tiede, D., Baraldi, A., Sudmanns, M., Augustin, H., Werner, C., D'Oleire-Oltmanns, S., Lang, S., 2017. Automatic Semantic Enrichment Of Big Earth Observation Data For SpatioTemporal Querying In Image Databases, in: 37th EARSeL Symposium: Smart Future with Remote Sensing. p. 74.

119) Hölbling, D., Friedl, B., Jirathana, D., Tiede, D., 2017. Mapping, Monitoring And Modelling The Spatio-Temporal Dynamics Of Land Surface Morphology, in: 37th EARSeL Symposium: Smart Future with Remote Sensing. Prague.

120) Tiede, D., Lang, S., Füreder, P., 2014. Monitoring dynamics in ephemeral settlements - the case of transforming refugee and IDP camps, in: IGARSS'14, Quebec City, Canada, July 13-18 2014: Special Session on "Remote Sensing of Human Settlements." Extended abstract.

121) Tiede, D., Strasser, T., Maier, B., 2014. Multi-scale forest information maps derived from ALS data for the implementation in forest management strategies, in: Forestsat 2014 Proceedings, Extended Abstract. p. 3.

122) Adamczyk, J., & Tiede, D. (2013). Multitemporal structural variability analysis of vegetation patterns in the Sierra Nevada Mountains (Spain): an object-based framework to integrate archived remote sensing images of different sensors. In MultiTemp 2013 (p. extended abstract). Retrieved from https://c5.ucalgary.ca/ccrg/system/files/multitemp_2013_final_program_-_june_27.pdf#page=28

123) Osberger, A., Tiede, D., Lang, S., 2013. Forest disturbance monitoring system based on high spatial resolution satellite images in the Kalkalpen National Park, in: 5th Symposium for Research in Protected Areas. pp. 545–550.

124) Osberger, A., Tiede, D., 2013. Forest Disturbance Information Layer for Alpine Forest Habitats, in: Jekel, T., Car, A., Strobl, J., Gerald, G. (Eds.), GI_Forum 2013. Creating the GISociety – Conference Proceedings. Verlag der Österreichischen Akademie der Wissenschaften, pp. 528–531.

125) Riedler, B., Strasser, T., Pernkopf, L., Tiede, D., Lang, S., 2013. Habitat Quality Analysis of Natura 2000 Riparian Forests, in: Jekel, T., Car, A., Strobl, J., Gerald, G. (Eds.), GI_Forum 2013. Creating the GISociety – Conference Proceedings. Verlag der Österreichischen Akademie der Wissenschaften, pp. 540–543.

126) Füreder, P., Hölbling, D., Tiede, D., Zeil, P., Lang, S., 2012. Monitoring refugee camp evolution and population dynamics in Dagahaley, Kenya, based on VHR satellite data, 9th International Conference African Association of Remote Sensing of the Environment (AARSE), El Jadida, Morooco, pp. CD-ROM.

127) Khamphilung, S., Strobl, J., Tiede, D., 2012. Village forms classification by object-based image analysis, in: ACRS2012. The 33rd Asian Conference On Remote Sensing. Pattaya, Thailand.

128) Drăguţ, L., Tiede, D., Eisank, C., Csillik, O., 2012. Objective objectification with multiresolution segmentation, GIScience 2012 workshop on "Geographic object based multi-scale analysis: developing a methodological framework for GIScience", 18 September 2012, Columbus, Ohio, USA

129) Lang, S., Kienberger, S., Hagenlocher, M., Pernkopf, L., Tiede, D., 2012. Spatial meta-indicators: Complex spatial phenomena approached by object-based regionalization techniques of multi-dimensional non-image data, GIScience 2012 workshop on "Geographic object based multi-scale analysis: developing a methodological framework for GIScience", 18 September 2012, Columbus, Ohio, USA.

130) Lang, S., Tiede, D., Zeil, P., 2012. Automatisierte Informationsextraktion im Kontext von Katastrophen und regionalen Krisen, in: Eder, T., Koch, A., Kutzner, T. (Eds.), Beiträge zum 17. Münchener Fortbildungsseminar 2012. Wichmann, pp. 114-121.

131) Huber, J., Kienberger, S., Tiede, D., 2012. Modellierung und Visualisierung von Vulnerabilität – Integrative und interaktive räumliche Web-Plattform zur Risikominimierung, in: Strobl, J., Blaschke, T., Griesebner, G. (Eds.), Angewandte Geoinformatik 2012. Wichmann, pp. 602-607. http://gispoint.de/fileadmin/user_upload/paper_gis_open/537520041.pdf

132) Pernkopf, L., Tiede, D., Lumasegger, M., Lang, S., 2012. Szenariobasierte, regionalisierte Landschaftsbildbewertung mithilfe von Diversitätsmaßen, in: Strobl, J., Blaschke, T., Griesebner, G. (Eds.), Angewandte Geoinformatik 2012. Wichmann, pp. 518-523. http://gispoint.de/fileadmin/user_upload/paper_gis_open/537520065.pdf

133) Tiede, D., Wania, A., Füreder, P., 2012. Object-based change detection and classification improvement of time series analysis, International Conference on Geographic Object-Based Image Analysis, 4. (GEOBIA), May 7-9, 2012, Rio de Janeiro - RJ, Brazil, pp. 223-227. http://mtc-m18.sid.inpe.br/col/sid.inpe.br/mtc-m18/2012/05.31.23.00/doc/goto-/sid.inpe.br/mtc-m18/2012/05.17.19.28

134) Tiede, D., Huber, J., Kienberger, S., 2012. Implementation of an interactive WebGIS-based OBIA geoprocessing service, International Conference on Geographic Object-Based Image Analysis, 4. (GEOBIA), May 7-9, 2012, Rio de Janeiro - RJ, Brazil, pp. 402-406. http://mtc-m18.sid.inpe.br/col/sid.inpe.br/mtc-m18/2012/05.31.23.00/doc/goto-/sid.inpe.br/mtc-m18/2012/05.18.18.05

135) Hernando, A., Tiede, D., Albrecht, F., Lang, S., García-Abril, A., 2012. Novel parameters for evaluating the spatial and thematic accuracy of land cover maps, International Conference on Geographic Object-Based Image Analysis, 4. (GEOBIA), May 7-9, 2012, Rio de Janeiro - RJ, Brazil, pp. 613-617. http://mtc-m18.sid.inpe.br/col/sid.inpe.br/mtc-m18/2012/05.31.23.00/doc/goto-/sid.inpe.br/mtc-m18/2012/05.15.14.48

136) Tiede, D., Hoffmann, C., Willhauck, G., 2012. Fully integrated workflow for combining object-based image analysis and LiDAR point cloud metrics for feature extraction and classification improvement, ILMF International LiDAR Mapping Forum 2012, Denver, USA, p. 6.

137) Vega Ezquieta, P., Tiede, D., Joyanes, G., Gorzynska, M., Ussorio, A., 2011. Outside the Matrix, a review of the interpretation of Error Matrix results. In: C. Corbane, D. Carrion, M. Broglia, M. Pesaresi (Eds.), 3rd International workshop on Validation of geoinformation products for crisis management. pp. 57-67.

138) Lang , S., Tiede, D. and D. Hölbling, 2011. True geospatial matching for cadastre-constraint Biotope mapping. In: Proceedings of the RSPSoc 2011 Annual Conference, Bournemouth University, Bournemouth, United Kingdom, 13-15 September, CD-ROM, 2 p

139) Kranz, O., Gstaiger, V., Lang, S., Tiede, D., Zeug, G., Kemper, T., Ezquieta, P.V., Clandillon, S., 2010. Different approaches for IDP camp analyses in West Darfur (Sudan)–a status report, Proc. 6th Geomatics for Crisis Management Conf.(Gi4DM), Turin, Italy. http://www.gdmc.nl/zlatanova/Gi4DM2010/gi4dm/Pdf/p187.pdf

140) Lang, S., D. Tiede, F. Albrecht, and P. Füreder, 2010. Automated techniques in rapid geospatial reporting - issues of object validity, *Conference proceedings of the 2nd international Workshop on validation of geo-information products for crisis management (VALgEO)*, 13-15 October 2010, Ispra, Italy (C. Corbane, D. Carrion, M. Broglia and M. Pesaresi, editors, Publications Office of the European Union, Luxembourg), pp. 65-75.

141) Tiede, D., Hoffmann, C., Füreder, P., Hölbling, D., Lang, S., 2010. Automated damage assessment for rapid geospatial reporting - first experiences from the Haiti earthquake 2010. In: A. Car, G. Griesebner, J. Strobl (Eds.), Geospatial Crossroads @ GI_Forum '10. Proceedings of the Geoinformatics Forum Salzburg. pp. 207-210.

142) Tiede, D., Lang, S., Hölbling, D., Füreder, P., 2010. Transferability of OBIA rulesets for IDP Camp Analysis in Darfur. In: E. Addink, F.M.B. Van Coillie (Eds.), GEOBIA 2010 - Geographic Object-Based Image Analysis. Ghent University, Ghent, Belgium, 29 June – 2 July. ISPRS Vol.No. XXXVIII-4/C7, Archives ISSN No 1682-1777.

143) Johansen, K., Tiede, D., Blaschke, T., Phinn, S., Arroyo, L. A., 2010. Automatic geographic object based mapping of streambed and riparian zone extent from Lidar data in a temperate rural urban environment, Australia. In: E. Addink, F.M.B. Van Coillie (Eds.), GEOBIA 2010 - Geographic Object-Based Image Analysis. Ghent University, Ghent, Belgium, 29 June – 2 July. ISPRS Vol.No. XXXVIII-4/C7, Archives ISSN No 1682-1777.

144) Tiede, D., Lang, S., 2009. IDP camp evolvement analysis in Darfur using VHSR optical satellite image time series and scientific visualization on virtual globes. In: H. Guo, C. Wang (Eds.), Sixth International Symposium on Digital Earth: Models, Algorithms, and Virtual Reality. SPIE, Beijing, China, pp. 7..

145) Tiede, D., Osberger, A., Novak, H., 2009. Automatisierte Baumextraktion mit höchstaufgelösten Oberflächenmodellen abgeleitet aus UltracamX-Daten. In: J. Strobl, T. Blaschke, G. Griesebner (Eds.), Angewandte Geoinformatik 2009. Wichmann, Heidelberg, pp. 55-60.

146) Hölbling, D., Füreder, P., Tiede, D., Lang, S., 2009. Steigerung des Informationsgehaltes einer LULC Klassifikation durch hierarchische Datenintegration. In: J. Strobl, T. Blaschke, G. Griesebner (Eds.), Angewandte Geoinformatik 2009. Wichmann, Heidelberg, pp. 14-19.

147) Tiede, D. & Lang, S., 2008. Rapid Dwelling Extraction From VHSR Satellite Imagery In Refugee Camps And Dissemination Of Conditioned Information Via Virtual Globes. In Ehlers; Behncke; Gerstengarbe; Hillen; Koppers; Stroink; Wächter (Ed.), Digital Earth Summit on Geoinformatics 2008: Tools for Global Change Research (pp. 100-106). Heidelberg: Wichmann.

148) Tiede, D. & Lang, S., 2008. Distributed computing for accelerated dwelling extraction in refugee camps using VHSR satellite imagery. In A. Car, G. Griesebner & J. Strobl (Ed.), Geospatial Crossroads @ GI_Forum '08. Proceedings of the Geoinformatics Forum Salzburg (pp. 256-261). Heidelberg:Wichmann.

149) Kienberger, S., Tiede, D., Ungersböck, M., Klug, H. & Ahrens, B., 2008. Interpolation of daily temperature values for european and asian test-areas. In A. Car, G. Griesebner & J. Strobl (Ed.), Geospatial Crossroads @ GI_Forum '08. Proceedings of the Geoinformatics Forum Salzburg (pp. 164-169). Heidelberg:Wichmann.

150) Lang, S., E. Weinke, D. Tiede, F. Albrecht & B. Zagel, 2008. Landscape Interpretation Support Tool (LIST) for ArcGIS. In: ESRI User Conference 2008. San Diego; Abstract

151) Lang, S., Zeil, P., Kienberger, S. & Tiede, D.,2008. Geons – policy-relevant geo-objects for monitoring high-level indicators. In A. Car, G. Griesebner & J. Strobl (Ed.), Geospatial Crossroads @ GI_Forum '08. Proceedings of the Geoinformatics Forum Salzburg (pp. 180-185). Heidelberg:Wichmann.

152) Zeil, P., Tiede, D., Lang, S. & Kienberger, S., 2008. Monitoring for Human Security - Reflecting the link between 'E' and 'S' in GMES. In A. Car, G. Griesebner & J. Strobl (Ed.), Geospatial Crossroads @ GI_Forum '08. Proceedings of the Geoinformatics Forum Salzburg (pp. 276-283). Heidelberg:Wichmann.

153) Tiede, D., Lang, S., Albrecht, F., Hölbling, D., 2008. Class Modelling Of Biotope Complexes–Success And Remaining Challenges, in: Hay, G.J., Blaschke, T., Marceau, D. (Eds.), GEOBIA, 2008 - Pixels, Objects, Intelligence: GEOgraphic Object Based Image Analysis for the 21st Century. ISPRS International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Calgary, Alberta, Canada, p. 6. http://homepages.ucalgary.ca/~gjhay/geobia/Aug18/GEOBIA%20Proceedings_Linked.pdf

154) Lang, S., Tiede, D., 2008. Geons - Establishing manageable geo-objects for spatial planning and monitoring purposes, in: Hay, G.J., Blaschke, T., Marceau, D. (Eds.), GEOBIA, 2008 - Pixels, Objects, Intelligence: GEOgraphic Object Based Image Analysis for The21st Century. p. extended Abstract.

155) Lang, S. , D. Tiede, G. Laneve, J.Ebeltjes, G. Santili, A. de la Cruz. (2008): Manual vs. automated dwelling counting in Chad, Sudan, Tanzania and Zimbabwe. Book of Abstracts. Remote Sensing for international stability and security - integrating GMOSS achievements in GMES; JRC, Ispra, 19-20 February 2008. Edited by Gunter Zeug, Thomas Kemper, Alan Steel & Martino Pesaresi

156) Kienberger, S., Lang, S., Tiede, D. (2008): Socio-economic vulnerability units – modelling meaningful spatial units. Proceedings of the GIS Research UK 16th Annual conference GISRUK 2008, Manchester. Extended abstract

157) Lang, S., Tiede, D., Schumacher, J. & Hölbling, D., 2007. Individual object delineation revising cadastral boundaries by means of VHSR data. In: M. Ehlers & U. Michel (Hrsg.), Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII conference. Vol.6749, pp. 8. Florence, Italy: SPIE.

158) Zeil P., E. Schöpfer, D. Tiede, S. Lang & T. Blaschke, 2007. Monitoring for Human Security - Reflecting the "S" in GMES. EARSeL GMES Workshop "GMES: Global Monitoring for Environment and Security", Bozen, Abstract.

159) Drechsler, P. and D. Tiede, 2007. Modelling the spread of Neolithic herders – a computer aided approach. In: Figueiredo, Alexandra and Leite Velho, Gonçalo (eds) 2007. The world is in your eyes - Proceedings of the XXXIII Computer Applications in Archaeology Conference: Tomar March 2005.

160) Blaschke, T., S. Lang, E. Schöpfer, D. Tiede, L. Dragut, 2007. Landscape change assessment - Integration of remote sensing, GIS and spatial modelling concepts. In: 25 Years of Landscape Ecology: Scientific Principles in Practice R.G.H. Bunce, R.H.G Jongman, L. Hojas & S. Weel (eds.). Wageningen

161) Tiede, D. & S. Lang, 2007. Analytical 3D views and virtual globes – putting analytical results into spatial context. ISPRS, ICA, DGfK - Joint Workshop: Visualization and Exploration of Geospatial Data, Stuttgart

162) Schumacher, J., Lang, S., Tiede, D., Hölbling, D., Rietze, J., Trautner, J., 2007. Einsatz von GIS und objekt-basierter Analyse von Fernerkundungsdaten in der regionalen Planung – Methoden und erste Erfahrungen aus dem Biotopinformations- und Managementsystem (BIMS) Region Stuttgart, in: Strobl, J., Blaschke, T., Griesebner, G. (Eds.), Angewandte Geoinformatik 2007. Wichmann Verlag, Heidelberg, pp. 703–708.

163) Blaschke, T., P. Hofmann, I. Georg, E. Schöpfer, D. Tiede, S. Lang, M. Moeller, E. Auraujo & H. Kux, 2007. Möglichkeiten und Grenzen der Fernerkundung für das Monitoring und Safeguarding informeller Siedlungen: Eine Synthese. In: Dreiländertagung 2007 der SGPBF, DGPF und OVG, 19.-21. Juni. Basel

164) Blaschke, T., Zeil, P., Strobl, J., Lang, S., Tiede, D., Moeller, M., Triebnig, G., Schiller, C., Mittlböck, M., Resch, B. (2007) GMES: From Research Projects to Operational Environmental Monitoring Services. Proceedinsg of the ISPRS Hannover Workshop 2007 High-Resolution Earth Imaging for Geospatial Information.

165) Tiede, D., S. Lang, B. Maier, 2007. Transferability of a Tree-Crown Delineation Approach using Region-Specific Segmentation. In: Proceedings of the 13th Simpósio Brasileiro de Sensoriamento Remoto (SBSR). Florianopolis, Brazil, 1883 – 1890 http://marte.dpi.inpe.br/col/dpi.inpe.br/sbsr@80/2007/01.26.15.43/doc/1883-1890.pdf

166) Schöpfer, E., D. Tiede, S. Lang and P. Zeil, 2007. Damage assessment in townships using VHSR data - The effect of Operation Murambatsvina / Restore Order in Harare, Zimbabwe. Urban Remote Sensing Joint Event. Paris 2007, CD-ROM

167) Schöpfer, E., D. Tiede, S. Lang and S. Kienberger, 2007. Rapid feature extraction and context mapping. In: EURAC Remote Sensing in Mountain Regions, Abstract.

168) Lang, S., D. Tiede & G. Santilli, 2006. Varying sensors and algorithms – an information delivery approach for population estimation in African refugee camps. In: 6th African Association of Remote Sensing of the Environment Conference (AARSE), Oct 30 - Nov 2, Cairo, Egypt.

169) Blaschke, T., Tiede, D. and Lang, S., 2006. An object-based information extraction methodology incorporating a-priori spatial information. In: 4. ESA conference on image information mining, November 2006, CD-ROM. Madrid

170) Tiede, D., S. Lang and C. Hoffmann, 2006. Supervised and forest type-specific multi-scale segmentation for a one-level-representation of single trees. In: International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. No. XXXVI-4/C42, Salzburg, Austria. http://www.commission4.isprs.org/obia06/

171) Maier, B., D. Tiede and L. Dorren,2006. Assessing mountain forest structure using airborne laser scanning and landscape metrics. In: International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. No. XXXVI-4/C42, Salzburg, Austria. http://www.commission4.isprs.org/obia06/

172) Tiede, D. and C. Hoffmann, 2006. Process oriented object-based algorithms for single tree detection using laser scanning data. EARSeL-Proceedings of the Workshop on 3D Remote Sensing in Forestry, 14th-15th Feb 2006, Vienna, 151-156 http://www.rali.boku.ac.at/7779.html

173) Drechsler, P. und D. Tiede, 2005. Jungsteinzeit versus Computerzeitalter – die Modellierung potenzieller Ausbreitungswege des Neolithikums über die Arabische Halbinsel mittels eines Geographischen Informationssystems. In: Strobl, S., Blaschke, T., Griesebner, G. (Hrsg.), Angewandte Geoinformatik 2005. Wichmann Verlag, Heidelberg, 134 -139.

174) Lang, S., Tiede, D., 2005. Behausungsextrahierung und -visualisierung zur Bevölkerungsabschätzung im sudanesischen Flüchtlingslager Goz Amer (Tschad), in: Strobl, J., Blaschke, T., Griesebner, G. (Eds.), Angewandte Geoinformatik 2005. Wichmann Verlag, Heidelberg, pp. 397 – 402.

175) Tiede, D. and T. Blaschke, 2004. An integrated workflow for LIDAR / optical data mapping for security applications. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVI-5/W1, Pitsanulok, Thailand, pp. 1-6.

176) Tiede, D., M. Heurich and T. Blaschke, 2004. Object-based semi automatic mapping of forest stands with Laser scanner and Multi-spectral data. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVI-8W2, Freiburg, pp. 328-333.

177) Blaschke T., D. Tiede and M. Heurich, 2004. 3D landscape metrics to modelling forest structure and diversity based on laser scanning data. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVI-8/W2, Freiburg, pp. 129-132.

178) Tiede, D., C. Burnett and M. Heurich, 2004. Objekt-basierte Analyse von Laserscanner- und Multispektraldaten zur Einzelbaumdelinierung im Nationalpark Bayerischer Wald. In: S. Strobl, T. Blaschke, G. Griesebner (Hrsg.), Angewandte Geoinformatik 2004, Wichmann Verlag, Heidelberg.

179) Blaschke, T., D. Tiede, R. Meisner and R. Göbel, 2004. Rapid information extraction from remote sensing data for disaster management. UN workshop on disaster management, Munich, extended abstract

180) Lang, S. and D. Tiede, 2003. vLATE Extension für ArcGIS – vektorbasiertes Tool zur quantitativen Landschaftsstrukturanalyse, ESRI Anwenderkonferenz 2003 Innsbruck. CDROM

181) Blaschke, T. and D. Tiede, 2003. Bridging GIS-based landscape analysis/modelling and 3D-simulation. Is this already 4D? In: Schrenk, M. (ed.): CORP 2003 Geo Multimedia 03, Vienna, pp. 217-222.

Theses

182) Tiede, D., 2019 (Habilitation). Agile Knowledge-Based Information Extraction from Earth Observation Data Using Spatial Concepts - Spatial Reasoning, Automation and Applications towards Big Earth Observation Data. University of Salzburg.

183) Tiede, D., 2010 (PhD). Von Fernerkundungsdaten über Informationsextraktion zur 3D Geovisualisierung - Entwicklung eines Workflows. University of Salzburg.

184) Tiede, D., 2002 (Diploma). Sturmwürfe des Orkans Lothar (26.12.1999) im Schönbuch: eine geowissenschaftliche Analyse mit GIS. University of Tübingen.