

PUBLICATIONS: DANIEL HÖLBLING

Peer-reviewed Journal Articles

1. Kothencz, G., Albrecht, F., **Hölbling, D.**, Pürmayr, K., Osberger, A., 2018. Integrated analysis of urban green spaces and recreation areas: transferability and applicability. *Acta Horticulturae*, 1215, 319-324. <http://dx.doi.org/10.17660/ActaHortic.2018.1215.59>
2. Albrecht, F., Osberger, A., **Hölbling, D.**, Kothencz, G., Pürmayr, K., Sigl, M., Hitsch, V., 2018. Integrierte Analyse und Bewertung von Stadtparks. *AGIT - Journal für Angewandte Geoinformatik*, 4-2018, 310-315. <http://dx.doi.org/10.14627/537647039>
3. Weinke, E., **Hölbling, D.**, Albrecht, F., Friedl, B., 2017. Land@Slide-Hangrutschungsservice – Potenziale für einen Copernicus-Downstream-Service. *AGIT – Journal für Angewandte Geoinformatik*, 3-2017, 343-352. <http://dx.doi.org/10.14627/537633038>
4. **Hölbling, D.**, Eisank, C., Albrecht, F., Vecchiotti, F., Friedl, B., Weinke, E., Kociu, A., 2017. Comparing Manual and Semi-Automated Landslide Mapping Based on Optical Satellite Images from Different Sensors. *Geosciences*, 7(2), 37. <http://dx.doi.org/10.3390/geosciences7020037>
5. **Hölbling, D.**, Betts, H., Spiekermann, R., Phillips, C., 2016. Identifying Spatio-Temporal Landslide Hotspots on North Island, New Zealand, by Analyzing Historical and Recent Aerial Photography. *Geosciences*, 6, 48. <http://dx.doi.org/10.3390/geosciences6040048>
6. Casagli, N., Cigna, F., Bianchini, S., **Hölbling, D.**, Füreder, P., Righini, G., Del Conte, S., Friedl, B., Schneiderbauer, S., Iasio, C., Vlcko, J., Greif, V., Proske, H., Granica, K., Falco, S., Lozzi, S., Mora, O., Arnaud, A., Novali, F., Bianchi, M., 2016. Landslide mapping and monitoring by using radar and optical remote sensing: Examples from the EC-FP7 project SAFER. *Remote Sensing Applications: Society and Environment*, 4, 92-108. <http://dx.doi.org/10.1016/j.rsase.2016.07.001>
7. Weinke, E., Albrecht, F., **Hölbling, D.**, Eisank, C., Vecchiotti, F., 2016. Verfahren zur Implementierung eines Kartierungsdienstes für Rutschungen auf Basis von Fernerkundungsdaten und Nutzereinbindung. *AGIT – Journal für Angewandte Geoinformatik*, 2-2016, 46-55. <http://dx.doi.org/10.14627/537622007>
8. Hagenlocher, M., **Hölbling, D.**, Kienberger, S., Vanhuysse, S., Zeil, P., 2016. Spatial assessment of social vulnerability in the context of landmines and explosive remnants of war in Battambang province, Cambodia. *International Journal of Disaster Risk Reduction*, 15, 148-161. <http://dx.doi.org/10.1016/j.ijdr.2015.11.003>
9. Robson, B.A., **Hölbling, D.**, Nuth, C., Strozzi, T., Dahl, S.O., 2016. Decadal Scale Changes in Glacier Area in the Hohe Tauern National Park (Austria) Determined by

- Object-Based Image Analysis. *Remote Sensing*, 8(1), 67.
<http://dx.doi.org/10.3390/rs8010067>
10. Robson, B.A., Nuth, C., Dahl, S.O., **Hölbling, D.**, Strozzi, T., Nielsen, P.R., 2015. Automated classification of debris-covered glaciers combining optical, SAR and topographic data in an object-based environment. *Remote Sensing of Environment*, 170, 372-387. <http://dx.doi.org/10.1016/j.rse.2015.10.001>
 11. **Hölbling, D.**, Friedl, B., Eisank, C., 2015. An object-based approach for semi-automated landslide change detection and attribution of changes to landslide classes in northern Taiwan. *Earth Science Informatics*, 8 (2), 327-335. <http://dx.doi.org/10.1007/s12145-015-0217-3>
 12. Blaschke, T., Feizizadeh, B., **Hölbling, D.**, 2014. Object-Based Image Analysis and Digital Terrain Analysis for Locating Landslides in the Urmia Lake Basin, Iran. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 7 (12), 4806-4817. <http://dx.doi.org/10.1109/JSTARS.2014.2350036>
 13. Hagenlocher, M., Lang, S., **Hölbling, D.**, Tiede, D., Kienberger, S., 2014. Modeling hotspots of climate change in the Sahel using object-based regionalization of multi-dimensional gridded datasets. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 7 (1), 229-234. <http://dx.doi.org/10.1109/JSTARS.2013.2259579>
 14. Eisank, C., **Hölbling, D.**, Friedl, B., Chen, Y-C., Chang, K.-T., 2014. Expert knowledge for object-based landslide mapping in Taiwan. *South-Eastern European Journal of Earth Observation and Geomatics, Special Thematic Issue: GEOBIA 2014 - Advancements, trends and challenges, 5th Geographic Object-Based Image Analysis Conference, Thessaloniki, Greece, May 21-24, 2014*, 3 (2S), 347-350. <http://ejournals.lib.auth.gr/seejeog/issue/view/726>
 15. Vanhuysse, S., **Hölbling, D.**, Friedl, B., Hanson, E., Krtalić, A., Hagenlocher, M., Racetin, I., Wolff, E., 2014. Object-Based Image Analysis for Detecting Indicators of Mine Presence to Support Suspected Hazardous Area Re-delineation. *South-Eastern European Journal of Earth Observation and Geomatics, Special Thematic Issue: GEOBIA 2014 - Advancements, trends and challenges, 5th Geographic Object-Based Image Analysis Conference, Thessaloniki, Greece, May 21-24, 2014*, 3 (2S), 525-529. <http://ejournals.lib.auth.gr/seejeog/issue/view/726>
 16. 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*, 3/2013, 185-195. <http://dx.doi.org/10.1127/1432-8364/2013/0169>
 17. **Hölbling, D.**, Füreder, P., Antolini, F., Cigna, F., Casagli, N., Lang, S., 2012. A Semi-Automated Object-Based Approach for Landslide Detection Validated by Persistent Scatterer Interferometry Measures and Landslide Inventories. *Remote Sensing*, 4 (5), 1310-1336. <http://dx.doi.org/10.3390/rs4051310>

18. Tiede, D., Lang, S., Füreder, P., **Hölbling, D.**, Hoffmann, C., Zeil, P., 2011. Automated damage indication for rapid geospatial reporting. *Photogrammetric Engineering & Remote Sensing, Special Issue: Haiti Earthquake, Part 1*, 77 (2), 933-942. <https://doi.org/10.14358/PERS.77.9.933>
19. 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. <http://dx.doi.org/10.1080/01431161.2010.496803>
20. Tiede, D., Lang, S., Albrecht, F., **Hölbling, D.**, 2010. Object-based class modeling for cadastre-constrained delineation of geo-objects. *Photogrammetric Engineering and Remote Sensing (PE&RS)*, 76 (2), 193-202. <http://dx.doi.org/10.14358/PERS.76.2.193>

Book Chapters

21. Lang, S., Blaschke, T., Kothencz, G., **Hölbling, D.**, 2018. Urban Green Mapping and Valuation. Weng, Q., Quattrochi, D., Gamba, P. (eds), *Urban Remote Sensing*, Second Edition, CRC Press: Boca Raton, pp. 287-308.
22. Albrecht, F., **Hölbling, D.**, Weinke, E., Eisank, C., 2016. User requirements for an Earth Observation (EO)-based landslide information web service. Aversa, S., Cascini, L., Picarelli, L., Scavia, C. (eds.), *Landslides and Engineered Slopes. Experience, Theory and Practice*, Vol. 2, CRC Press, pp. 301-308. <http://dx.doi.org/10.1201/b21520-27>
23. Lang, S., Möller, M., Schöpfer, E., Jekel, T., **Hölbling, D.**, Kloyber, E., Blaschke, T., 2007. Quantifying and qualifying urban green by integrating remote sensing, GIS and social science methods. Müller, F., Jones, B., Krauze, K., Li, B.-L., Victorov, S., Zurlini, G., Petrosilio, I., Kepner, W. (eds.), *Use of landscape sciences for the assessment of environmental security*, Springer: Berlin/New York, pp. 93-105. [[pdf](#)]

Professional Journals

24. **Hölbling, D.**, 2009. ERDAS IMAGINE Objective 9.3 - Snapshot. *GIS Business*, 8/2009, abcverlag: Heidelberg, pp. 47-51. [[pdf](#)]
25. **Hölbling, D.**, Neubert, M., 2008. ENVI Feature Extraction 4.5 - Snapshot. *GIS Business*, 7/2008, abcverlag: Heidelberg, pp. 48-51. [[pdf](#)]

Conference Proceedings

26. Tiede, D., Friedl, B., **Hölbling, D.**, Dittrich, J., Robson, B.A., 2018. Object tracking through time: the example of a rock avalanche on a glacier. *GEObIA 2018 – GEObIA in a Changing World*, Montpellier, France, 18-22 June 2018.

27. Albrecht, F., Jemec Auflič, M., **Hölbling, D.**, 2018. Visibility analysis for planning landslide alert systems with webcams. Jemec Auflic, M., Mikos, M., Verbovsek, T. (eds.), *Advances in Landslide Research. Proceedings of the 3rd Regional Symposium on Landslides in the Adriatic-Balkan Region*, Ljubljana, Slovenia, 11-13 October 2017, 53-58. [[pdf](#)]
28. **Hölbling, D.**, Friedl, B., Dittrich, J., Cigna, F., Pedersen, G.B.M., 2018. Combined interpretation of optical and SAR data for landslide mapping. Jemec Auflic, M., Mikos, M., Verbovsek, T. (eds.), *Advances in Landslide Research. Proceedings of the 3rd Regional Symposium on Landslides in the Adriatic-Balkan Region*, Ljubljana, Slovenia, 11-13 October 2017, 7-12. [[pdf](#)]
29. **Hölbling, D.**, Weinke, E., Albrecht, F., Eisank, C., Vecchiotti, F., Friedl, B., Osberger, A., Kociu, A., 2018. A web service for landslide mapping based on Earth Observation data. Jemec Auflic, M., Mikos, M., Verbovsek, T. (eds.), *Advances in Landslide Research. Proceedings of the 3rd Regional Symposium on Landslides in the Adriatic-Balkan Region*, Ljubljana, Slovenia, 11-13 October 2017, 137-142. [[pdf](#)]
30. Robson, B.A., **Hölbling, D.**, 2018. Automatic Glacier Monitoring in the Hohe Tauern National Park, Austria. *6th Symposium for Research in Protected Areas - Conference Volume*. Salzburg, Austria, 2-3 November 2017, pp. 551-553. [[pdf](#)]
31. Weinke, E., **Hölbling, D.**, Albrecht, F., Friedl, B., 2018. Interactive web services for landslide and habitat monitoring. *6th Symposium for Research in Protected Areas - Conference Volume*. Salzburg, Austria, 2-3 November 2017, pp. 711-713. [[pdf](#)]
32. Albrecht, F., **Hölbling, D.**, Friedl, B., 2017. Assessing the agreement between EO-based semi-automated landslide maps with fuzzy manual landslide delineation. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XLII-2/W7, 439-446. <https://doi.org/10.5194/isprs-archives-XLII-2-W7-439-2017>
33. **Hölbling, D.**, Koller, M., Albrecht, F., Robson, B.A., Eisank, C., Weinke, E., 2016. Object-based time series analysis for landslide change detection using optical remote sensing imagery: Examples from Austria and Norway. *Proceedings of the 2nd Virtual Geoscience Conference*, Bergen, Norway, 21-23 September, pp. 138-139.
34. **Hölbling, D.**, Betts, H., Spiekermann, R., Phillips, C., 2016. Semi-automated landslide mapping from historical and recent aerial photography. *Proceedings of the 19th AGILE Conference on Geographic Information Science*, Helsinki, Finland, 14-17 June, 5 p. [[pdf](#)]
35. **Hölbling, D.**, Eisank, C., Friedl, B., Weinke, E., Kleindienst, H., Kociu, A., Vecchiotti, F., Albrecht, F., 2016. EO-based landslide mapping: from methodological developments to automated web-based information delivery. *13th Congress Interpraevent 2016 – Extended Abstracts*, Lucerne, Switzerland, May 30 - June 02, pp. 102-103. [[pdf](#)]
36. Dabiri, Z., **Hölbling, D.**, Lang, S., Bartsch, A., 2015. Applicability of multi-seasonal X-band SAR imagery for multiresolution segmentation: a case study in a riparian mixed forest. *International Conference on Sensors & Models in Remote Sensing &*

- Photogrammetry*, Kish Island, Iran, 23-25 November. ISPRS Archives, Vol. XL-1/W5, pp. 123-128. <http://dx.doi.org/10.5194/isprsarchives-XL-1-W5-123-2015>
37. Friedl, B., **Hölbling, D.**, 2015. Using SAR Interferograms and Coherence Images for Object-Based Delineation of Unstable Slopes. *FRINGE 2015 Workshop: Advances in the Science and Applications of SAR Interferometry and Sentinel-1 InSAR Workshop*, Frascati, Italy, 23-27 March, 6 p. [[pdf](#)]
 38. Plank, S., **Hölbling, D.**, Eisank, C., Friedl, B., Martinis, S., Twele, A., 2015. Comparing object-based landslide detection methods based on polarimetric SAR and optical satellite imagery - a case study in Taiwan. *7th International Workshop on Science and Applications of SAR Polarimetry and Polarimetric Interferometry - POLinSAR 2015*, Frascati, Italy, 26-30 January, 5 p.
 39. **Hölbling, D.**, Friedl, B., Eisank, C., Tsai, T.-T., 2014. An object-based method for mapping landslides on various optical satellite imagery - transferability and applicability across spatial resolutions. *Proceedings of the RSPSoc Annual Conference*, Aberystwyth, United Kingdom, 2-5 September, pp. 25-28.
 40. **Hölbling, D.**, Friedl, B., Eisank, C., 2014. Semi-automated mapping of landslide changes in Taiwan by means of object-based image analysis. *5th International Workshop of the EARSeL Special Interest Group "Geological Applications" on Remote Sensing and Geology "Surveying the GEosphere"*, Warsaw, Poland, 19-20 June, pp. 1-7. [[pdf](#)]
 41. Füreder, P., **Hölbling, D.**, Tiede, D., Lang, S., Zeil, P., 2012. Monitoring Refugee Camp Evolution and Population Dynamics in Dagahaley, Kenya, based on VHSR satellite data. *9th International Conference African Association of Remote Sensing of the Environment (AARSE)*, El Jadida, Morocco, October 29 - November 02. [[pdf](#)]
 42. Hagenlocher, M., Lang, S., **Hölbling, D.**, 2012. Identifying and evaluating hotspots of climate-related indicators in the Sahel making use of object-based regionalization techniques. *GEOBIA 2012*, Rio de Janeiro, Brazil, 7-9 May, pp. 421-425. [[pdf](#)]
 43. Lang, S., Tiede, D., **Hölbling, D.**, 2011. True geospatial matching for cadastre-constraint Biotope mapping. *Proceedings of the RSPSoc 2011 Annual Conference*, Bournemouth University, Bournemouth, United Kingdom, 13-15 September, pp. 28-29.
 44. 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. Car, A., Griesebner, G., Strobl, J. (eds.), *Geospatial Crossroads @ GI_Forum '10. Proceedings of the Geoinformatics Forum Salzburg*, Salzburg, Austria, pp. 207-210. [[pdf](#)]
 45. Tiede, D., Lang, S., **Hölbling, D.**, Füreder, P., 2010. Transferability of OBIA rulesets for IDP Camp Analysis in Darfur. Addink, E., Van Coillie, F.M.B. (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. [[pdf](#)]
 46. Albrecht, F., Lang, S., **Hölbling, D.**, 2010. Spatial accuracy assessment of object boundaries for object-based image analysis. Addink, E., Van Coillie, F.M.B. (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. [[pdf](#)]
47. Lang, S., Tiede, D., **Hölbling, D.**, Füreder, P., Zeil, P., 2009. Conditioning land-use information across scales and borders. Car, A., Griesebner, G., Strobl, J. (eds.), *Geospatial Crossroads GI_Forum '09 - Proceedings of the Geoinformatics Forum Salzburg*, Salzburg, Austria, Wichmann: Heidelberg, pp. 100-109. [[pdf](#)]
 48. **Hölbling, D.**, Füreder, P., Tiede, D., Lang, S., 2009. Steigerung des Informationsgehaltes einer LULC Klassifikation durch hierarchische Datenintegration. Strobl, J., Blaschke, T., Griesebner, G. (eds.), *Angewandte Geoinformatik 2009*, Wichmann: Heidelberg, pp. 14-19. [[pdf](#)]
 49. Jekel, T., Pernkopf M.-L., **Hölbling, D.**, 2008. Rethinking Spatial Thinking. An empirical case study and some implications for GI-based Learning. Donert, K., Wall, G. (eds.), *Future prospects in Geography. Herodot Conference Proceedings*, Liverpool Hope University Press: Liverpool, pp. 377-384. [[pdf](#)]
 50. Tiede, D., Lang, S., Albrecht, F., **Hölbling, D.**, 2008. Class Modelling Of Biotope Complexes - Success And Remaining Challenges. *GEOBIA 2008 - Pixels, Objects, Intelligence: GEOgraphic Object Based Image Analysis for the 21st Century*, Calgary, Canada, 6 p. [[pdf](#)]
 51. **Hölbling, D.**, Pernkopf, M.-L., Jekel, T., Albrecht, F., 2008. An Exploratory Comparison of Metrics for Line Error Measurement. Car, A., Griesebner G., Strobl, J. (eds.), *GI-Crossroads @ GI-Forum*, Wichmann: Heidelberg, pp. 134-139. [[pdf](#)]
 52. Tiede, D., Möller, M., Lang, S., **Hölbling, D.**, 2007. Adapting, Splitting and Merging Cadastral Boundaries according to homogenous LULC Types Derived from SPOT 5 Data. Stilla, U. et al (eds.), *PIA07 - International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, 36 (3/W49A), Munich, Germany, pp. 99-104. [[pdf](#)]
 53. Lang, S., Tiede, D., Schumacher, J., **Hölbling, D.**, 2007. Individual object delineation revising cadastral boundaries by means of VHSR data. *Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII conference. Proceedings of SPIE*, Florence, Italy, 8 p. <http://dx.doi.org/10.1117/12.739034>
 54. 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. Strobl, J., Blaschke, T., Griesebner, G. (eds.), *Angewandte Geoinformatik 2007. Beiträge zum 17. AGIT-Symposium*, Wichmann: Heidelberg, pp. 703-708. [[pdf](#)]
 55. Lang, S., Jekel, T., **Hölbling, D.**, Schöpfer, E., Prinz, T., Kloyber, E., Blaschke, T., 2006. Where the grass is greener - mapping of urban green structures according to relative importance in the eyes of the citizens. Hostert P., Schiefer, S., Damm, A. (eds.), *First Workshop of the EARSeL Special Interest Group on Urban Remote Sensing „Challenges and Solutions“*, Berlin, Germany, CD-ROM. [[pdf](#)]

56. **Hölbling, D.**, Schöpfer, E., Lang, S., Jekel, T., Kloyber, E., Prinz, T., 2006. Objekt-basierte Klassifikation relevanter urbaner Grünstrukturtypen auf höchstauflösenden Fernerkundungsdaten unter Einbeziehung des subjektiven Grüneindrucks. Strobl J., Blaschke, T., Griesebner, G. (eds.), *Angewandte Geographische Informationsverarbeitung XVIII*, Wichmann: Heidelberg, pp. 246-251. [[pdf](#)]

Conference Abstracts and Posters

57. Chu, L., Oloo, F., **Hölbling, D.**, Blaschke, T., 2019. Monitoring Long-term Influence of Human Activities on Shoreline Dynamics in the Hangzhou Bay, China, Using Google Earth Engine. *ESA Living Planet Symposium 2019*, Milan, Italy, 13-17 May.
58. Meena, S.R., Ghorbanzadeh, O., **Hölbling, D.**, 2019. Comparison of event-based landslide inventories: a case study from Gorkha earthquake 2015, Nepal. *ESA Living Planet Symposium 2019*, Milan, Italy, 13-17 May.
59. Robson, B.A., Bolch, T., Rastner, P., Loibl, D., MacDonell, S., **Hölbling, D.**, 2019. Automated mapping of rock-glaciers using deep learning, SAR Interferometry, and Object Based Image Analysis. *ESA Living Planet Symposium 2019*, Milan, Italy, 13-17 May.
60. Argentin, A.-L., Prasicek, G., Robl, J., **Hölbling, D.**, 2019. Automated detection of past river-blocking landslides based on valley geometry. *Geophysical Research Abstracts*, Vol. 21, EGU General Assembly 2019-8617, Vienna, Austria. [[pdf](#)]
61. Fleischer, F., Otto, J.-C., **Hölbling, D.**, 2019. Change of debris cover on glaciers of the Eastern Alps, Austria. *Geophysical Research Abstracts*, Vol. 21, EGU General Assembly 2019-15276, Vienna, Austria. [[pdf](#)]
62. Ghorbanzadeh, O., **Hölbling, D.**, Meena, S.R., Blaschke, T., 2019. Detecting Earthquake-triggered Large-scale Landslides with Different Input Window Sizes Convolutional Neural Networks. *Geophysical Research Abstracts*, Vol. 21, EGU General Assembly 2019-4474, Vienna, Austria. [[pdf](#)]
63. **Hölbling, D.**, Spiekermann, R., Betts, H., 2019. Monitoring landslide erosion in dependence on land cover using advanced remote sensing techniques at multiple scales. *Geophysical Research Abstracts*, Vol. 21, EGU General Assembly 2019-3398-1, Vienna, Austria. [[pdf](#)]
64. Meena, S.R., Tavakkoli Piralilou, S., **Hölbling, D.**, Blaschke, T., 2019. Qualitative and quantitative evaluation of earthquake-triggered landslide inventories in Nepal. *Geophysical Research Abstracts*, Vol. 21, EGU General Assembly 2019-4465, Vienna, Austria. [[pdf](#)]
65. Spiekermann, R., **Hölbling, D.**, Betts, H., 2019. Hindcasting the impact of bio-physical erosion mitigation. *Geophysical Research Abstracts*, Vol. 21, EGU General Assembly 2019-3426-1, Vienna, Austria. [[pdf](#)]

66. Argentin, A.-L., Prasicek, G., Robl, J., **Hölbling, D.**, Friedl, B., 2019. Influence of landslide dam history on the landform persistence. *18th ANZGG Conference*, Inverloch, Australia, 4-8 February. [[pdf](#)]
67. **Hölbling, D.**, Prasicek, G., Argentin, A.-L., Friedl, B., 2018. Detection of Landslide-induced River Course Changes and Lake Formation on Remote Sensing Data. *AGU Fall Meeting 2018*, Washington, D.C., USA, 10-14 December. [[pdf](#)]
68. Dittrich, J., **Hölbling, D.**, Friedl, B., Pedersen, G.B.M, Saemundsson, T., Tiede, D., 2018. Inferring Local Displacement from Multi-Temporal Interferometry in Southern Iceland. *29th International GRSG Conference: From Ground to Space: Advances in Geological Remote Sensing*, London, UK, 10-12 December.
69. Junisbekova, V., **Hölbling, D.**, 2018. SAR Interferometry and Object-Based Image analysis for landslide mapping in south-eastern Kazakhstan. *International Symposium on Water and Land Resources in Central Asia*, Almaty, Kazakhstan, 9-11 October 2018. [[pdf](#)]
70. Argentin, A.-L., Prasicek, G., Robl, J., **Hölbling, D.**, Friedl, B., 2018. A spatial causality method to identify the landslide-induced natural hazard cascades. *IAMG 2018 - 19th Annual Conference*, Olomouc, Czech Republic, 2-8 September 2018.
71. Friedl, B., **Hölbling, D.**, Tiede, D., Dittrich, J., Robson, B.A., Saemundsson, T., Pedersen, G.B.M., Lang, S., 2018. Object-Based Tracking Of Rock Avalanche Deposits On Glaciers Using Multi-Temporal Remote Sensing Data. *38th EARSeL Symposium: Earth Observation Supporting Sustainability Research*, Chania, Crete, Greece, 9-12 July 2018.
72. **Hölbling, D.**, Friedl, B., Dittrich, J., Tiede, D., 2018. Remote Sensing for Landslide Investigation: Mapping, Monitoring And Modelling The Spatio-Temporal Dynamics Of Land Surface Morphology. *EO4Alps - The Alps from Space Workshop*, Innsbruck, Austria, 27-29 June.
73. Osberger, A., Albrecht, F., **Hölbling, D.**, Kothencz, G., Pürmayr, K., Sigl, M., Hitsch, V., 2018. Integrierte Bewertung von Stadtparks durch subjektive Wahrnehmung der BürgerInnen und Fernerkundung unter Berücksichtigung von Klimaaspekten [Poster]. *19. Österreichischer Klimatag*, Salzburg, Austria, 23-25 April. [[pdf](#)]
74. Albrecht, A., **Hölbling, D.**, Taferner, D., Jemec Auflič, M., 2018. Testing the feasibility of webcam-based landslide alert systems. *Geophysical Research Abstracts*, Vol. 20, EGU General Assembly 2018-17412, Vienna, Austria. [[pdf](#)]
75. Argentin, A.-L., Prasicek, G., Robl, J., **Hölbling, D.**, Friedl, B., 2018. Detecting landslide-induced paleolakes and their impact on river course. *Geophysical Research Abstracts*, Vol. 20, EGU General Assembly 2018-6349-3, Vienna, Austria. [[pdf](#)]
76. Friedl, B., **Hölbling, D.**, Dittrich, J., Tiede, D., Saemundsson, T., Guðmundsson, S., Pedersen, G.B.M., 2018. Delineation of rock avalanche deposits on glaciers from different remote sensing data. *Geophysical Research Abstracts*, Vol. 20, EGU General Assembly 2018-13689, Vienna, Austria. [[pdf](#)]

77. Friedl, B., **Hölbling, D.**, Prasicek, G., Argentin, A.-L., Tsai, T.-T., 2018. Detection of landslide-dammed lakes and triggering landslides in Taiwan using Landsat imagery. *Geophysical Research Abstracts*, Vol. 20, EGU General Assembly 2018-14915, Vienna, Austria. [[pdf](#)]
78. **Hölbling, D.**, Spiekermann, R., Betts, H., Phillips, C., 2018. Landslide hotspot mapping and susceptibility assessment in Pahiatua, New Zealand. *Geophysical Research Abstracts*, Vol. 20, EGU General Assembly 2018-4214, Vienna, Austria. [[pdf](#)]
79. Prasicek, G., **Hölbling, D.**, Argentin, A.-L., Friedl, B., 2018. Detection and analysis of River course changes and lake formation – The RiCoLa Project. *Geophysical Research Abstracts*, Vol. 20, EGU General Assembly 2018-7768, Vienna, Austria. [[pdf](#)]
80. Albrecht, F., **Hölbling, D.**, Osberger, A., Kothencz, G., Pürmayr, K., Sigl, M., Hitsch, V., 2018. Remote sensing and human perception for the integrated assessment of city parks [Poster]. *Cities IPCC Conference*, Edmonton, Canada, 5-7 March. [[pdf](#)]
81. Dittrich, J., Friedl, B., **Hölbling, D.**, Pedersen, G.B.M., Saemundsson, T., Guðmundsson, S., 2017. Towards the Compilation of a Terrain-Corrected Backscatter Database of Glacio-Volcanic Land Cover Types. *Geological Remote Sensing Group (GRSG) 28th Annual Conference - "Applied Geological Remote Sensing"*, Lisbon, Portugal, 13-15 December. [[pdf](#)]
82. Albrecht, F., **Hölbling, D.**, Osberger, A., Kothencz, G., Pürmayr, K., Dannerer, B., Sigl, M., Hitsch, V., 2017. The grünOase project: An integrated analysis and assessment of green city oases [Poster]. *European Urban Green Infrastructure Conference (EUGIC)*, Budapest, Hungary, 29-30 November. [[pdf](#)]
83. Kothencz, G., **Hölbling, D.**, Albrecht, F., Osberger, A., 2017. From concept to application: Perceived green spaces characteristics and Earth observation based mapping [Poster]. *European Urban Green Infrastructure Conference (EUGIC)*, Budapest, Hungary, 29-30 November. [[pdf](#)]
84. Osberger, A., Albrecht, F., **Hölbling, D.**, Kothencz, G., Pürmayr, K., 2017. Integrated Analysis and Assessment of Green City Oases. *GREEN SURGE Conference*, Malmö, Sweden, 20-21 September.
85. **Hölbling, D.**, Friedl, B., Dittrich, J., Tiede, D., 2017. Mapping, Monitoring And Modelling The Spatio-Temporal Dynamics Of Land Surface Morphology. *37th EARSeL Symposium: Smart Future with Remote Sensing*, Prague, Czech Republic, 27-30 June.
86. Albrecht, F., Weinke, E., Eisank, C., Vecchiotti, F., **Hölbling, D.**, Friedl, B., Kociu, A., 2017. Validating the usability of an interactive Earth Observation based web service for landslide investigation. *Geophysical Research Abstracts*, Vol. 19, EGU General Assembly 2017-1407, Vienna, Austria. [[pdf](#)]
87. Aufaristama, M., **Hölbling, D.**, Höskuldsson, Á., Jónsdóttir, I., 2017. Comparison of SAM and OBIA as Tools for Lava Morphology Classification - A Case Study in Krafla, NE Iceland. *Geophysical Research Abstracts*, Vol. 19, EGU General Assembly 2017-16478, Vienna, Austria. [[pdf](#)]

88. **Hölbling, D.**, Weinke, E., Albrecht, F., Eisank, C., Vecchiotti, F., Friedl, B., Kociu, A., 2017. Towards an EO-based Landslide Web Mapping and Monitoring Service. *Geophysical Research Abstracts*, Vol. 19, EGU General Assembly 2017-1185, Vienna, Austria. [[pdf](#)]
89. Weinke, E., **Hölbling, D.**, Albrecht, F., Friedl, B., 2017. Concept of a spatial data infrastructure for web-mapping, processing and service provision for geo-hazards. *Geophysical Research Abstracts*, Vol. 19, EGU General Assembly 2017-8641, Vienna, Austria. [[pdf](#)]
90. **Hölbling, D.**, Betts, H., Spiekermann, R., Phillips, C., 2017. Mapping landslide hotspots by means of historical and recent aerial photography on North Island, New Zealand. *17th ANZGG Conference*, Greytown, New Zealand, 6-10 February.
91. Eisank, C., Geisler, T., Kleindienst, H., Albrecht, F., **Hölbling, D.**, 2016. UAV-basierte Erfassung und Dokumentation von Rutschungen im alpinen Gelände. *AHORN 2016 - Der Alpenraum und seine Herausforderung an Orientierung, Navigation und Informationsaustausch*, Garmisch-Partenkirchen, Germany, 17-18 November.
92. Weinke, E., Albrecht, F., **Hölbling, D.**, Eisank, C., 2016. Web-basierter semi-automatisierter Kartierungsdienst für Hangrutschungen basierend auf Fernerkundungsdaten. *AHORN 2016 - Der Alpenraum und seine Herausforderung an Orientierung, Navigation und Informationsaustausch*, Garmisch-Partenkirchen, Germany, 17-18 November.
93. Eisank, C., **Hölbling, D.**, Albrecht, F., 2016. Semi-automated landslide mapping based on multispectral satellite imagery: two Austrian case studies from the Land@Slide project. *Abstract Volume of GeoTirol 2016 - Annual Meeting of DGGV and PANGEO Austria*, Innsbruck, Austria, 25-28 September.
94. Koller, M., Robson, B.A., **Hölbling, D.**, 2016. Quantifying and visualizing flood erosional processes using multi-temporal LiDAR data. *Geological Society of America - Abstracts with Programs*, Vol. 48 (7), GSA Annual Meeting, Denver, USA, 25-28 September, Paper No. 158-4. [[pdf](#)]
95. Robson, B.A., Pulwiski, A., Stearns, L., **Hölbling, D.**, Koller, M., Nielsen, P.R., 2016. A fully automated, multi-sensor assessment of terminus position and iceberg density of Helheim outlet glacier, Greenland. *Geological Society of America - Abstracts with Programs*, Vol. 48 (7), GSA Annual Meeting, Denver, USA, 25-28 September, Paper No. 101-8. [[pdf](#)]
96. Lang, S., **Hölbling, D.**, Kothencz, G., Füreder, P., Albrecht, F., Kulesa, K., 2016. Units of Uniform Green Valuation - Integrating Biophysical and Telic Aspects of Urban Green. *36th EARSeL Symposium - Programme & Abstract Book*, Bonn, Germany, 20-24 June, pp. 104-105.
97. Robson, B.A., **Hölbling, D.**, Vatle, S. Nuth, C., Andreassen, L., Dahl, S.O., 2016. Towards Fully Automated Glacier Mapping: A New Glacier Inventory of Norway using Object-Based Image Analysis. *ESA Living Planet Symposium 2016*, Prague, Czech Republic, 9-13 May.

98. **Hölbling, D.**, Eisank, C., Friedl, B., Chang, K.-T., Tsai, T.-T., Pedersen, G.B.M., Betts, H., Cigna, F., Chiang, S.-H., Robson, B.A., Bianchini, S., Füreder, P., Albrecht, F., Spiekermann, R., Weinke, E., Blaschke, T., Phillips, C., 2016. Object-based Landslide Mapping: Examples, Challenges and Opportunities. *Geophysical Research Abstracts*, Vol. 18, EGU General Assembly 2016-520, Vienna, Austria. [[pdf](#)]
99. Albrecht, F., **Hölbling, D.**, Eisank, C., Weinke, E., Vecchiotti, F., Kociu, A., 2016. Communicating Earth Observation (EO)-based landslide mapping capabilities to practitioners. *Geophysical Research Abstracts*, Vol. 18, EGU General Assembly 2016-903, Vienna, Austria. [[pdf](#)]
100. Albrecht, F., **Hölbling, D.**, Eisank, C., Weinke, E., Friedl, B., 2015. Web-Service für Hangrutschungsinformationen aus Fernerkundungsdaten. *AHORN 2015 - der Alpenraum und seine Herausforderungen im Bereich Orientierung, Navigation und Informationsaustausch*, Wildhaus, Switzerland, 26-27 November.
101. **Hölbling, D.**, Friedl, B., Eisank, C., Blaschke, T., 2015. Object-based landslide mapping on satellite images from different sensors. *Geophysical Research Abstracts*, Vol. 17, EGU General Assembly 2015-511, Vienna, Austria. [[pdf](#)]
102. Friedl, B., **Hölbling, D.**, Eisank, C., Blaschke, T., 2015. Object-based landslide detection in different geographic regions. *Geophysical Research Abstracts*, Vol. 17, EGU General Assembly 2015-774, Vienna, Austria. [[pdf](#)]
103. Robson, B.A., **Hölbling, D.**, Nuth, C., Dahl, S.O., 2015. Object-based glacier mapping in the Hohe Tauern Mountains of Austria. *Geophysical Research Abstracts*, Vol. 17, EGU General Assembly 2015-1201, Vienna, Austria. [[pdf](#)]
104. Robson, B.A., Nuth, C., Dahl, S.O., **Hölbling, D.**, Strozzi, T., Nielsen, P.R., 2015. Combining spectral, topographic and SAR coherence data within an object-based classification environment for the automatic delineation of debris-covered ice. *Proceedings of the Kathmandu Symposium*, International Symposium on Glaciology in High-Mountain Asia, Kathmandu, Nepal, 2-6 March. [[pdf](#)]
105. Eisank, C., **Hölbling, D.**, Friedl, B., 2014. How well do terrain objects derived from pre-event digital elevation models spatially correspond to post-event landslides? *Geological Society of America Abstracts with Programs*, Vol. 46 (6), GSA Annual Meeting, Vancouver, Canada, 19-22 October, p. 105. [[pdf](#)]
106. **Hölbling, D.**, Tsai, T.-T., Eisank, C., Friedl, B., Shieh, C.-L., Blaschke, T., 2014. Pixel-based and object-based landslide mapping: a methodological comparison. *Geological Society of America Abstracts with Programs*, Vol. 46 (6), GSA Annual Meeting, Vancouver, Canada, 19-22 October, p. 608. [[pdf](#)]
107. Robson, B.A., Nuth, C., Dahl, S.V., **Hölbling, D.**, Strozzi, T., Nielsen, P.R., 2014. Combining spectral, topographic and SAR coherence data within an object based classification environment for the automatic classification of debris covered ice. *Geological Society of America Abstracts with Programs*, Vol. 46 (6), GSA Annual Meeting, Vancouver, Canada, 19-22 October, p. 69. [[pdf](#)]

108. Eisank, C., **Hölbling, D.**, Friedl, B., Chen, Y.-C., Chang, K.-T., 2014. Semi-automated extraction of landslides in Taiwan based on SPOT imagery and DEMs. *Geophysical Research Abstracts*, Vol. 16, EGU General Assembly 2014-13785, Vienna, Austria. [[pdf](#)]
109. **Hölbling, D.**, Friedl, B., Eisank, C., 2014. Object-based change detection for landslide monitoring based on SPOT imagery. *Geophysical Research Abstracts*, Vol. 16, EGU General Assembly 2014-10634, Vienna, Austria. [[pdf](#)]
110. Eisank, C., **Hölbling, D.**, Friedl, B., Blaschke, T., 2014. Halbautomatische Kartierung von Rutschungen - Das Forschungsprojekt iSLIDE [Poster]. *Interprävent - 'Stand der Technik' im Naturgefahren-Ingenieurwesen*, Vienna, Austria, 23-25 April.
111. Eisank, C., **Hölbling, D.**, Friedl, B., 2013. Terrain objects for digital landslide mapping. Manning, J. (ed.), *GRSG AGM 2013 - Status and developments in geological remote sensing*, GRSG Annual Meeting, Berlin, Germany, 9-11 December. [[pdf](#)]
112. Kienberger, S., Füreder, P., **Hölbling, D.**, Tiede, D., Contreras, D., Hagenlocher, M., Zeil, P., Lang, S., 2013. Von Geodaten zu nutzbarer Geoinformation - Entwicklung von und Anforderung an kartografische Produkte im Katastrophenmanagement-Zyklus. *Workshop "Raum Zeit Risiko" der DGfK Kommission Risiken, Katastrophen, Sicherheit*, Munich, Germany, 28 November.
113. **Hölbling, D.**, 2013. Object-based landslide delineation and classification [Poster]. *GIScience Symposium 2013*, Salzburg, Austria, 20 September.
114. Eisank, C., **Hölbling, D.**, Friedl, B., Blaschke, T., 2013. Defining digital signatures of landslide types for semi-automated landslide mapping. *8th IAG International Conference on Geomorphology*, Paris, France, 26-31 August.
115. **Hölbling, D.**, Eisank, C., Friedl, B., Blaschke, T., 2013. Integrated semi-automated landslide delineation, classification and evaluation. *Geophysical Research Abstracts*, Vol. 15, EGU General Assembly 2013-7513-1, Vienna, Austria. [[pdf](#)]
116. Hagenlocher, M., Lang, S., **Hölbling, D.**, 2012. Integrated Assessment of Climate Change Hot Spots in the Sahel [Poster]. *32nd International Geographical Congress (IGC)*, Cologne, Germany, 26-30 August.
117. Chang, K.-T., Mondini, A., **Hölbling, D.**, 2012. An Overview of Techniques for Mapping Rainfall-Triggered Shallow Landslides. *AOGS 2012 Abstracts*, AOGS - AGU (WPGM) Joint Assembly, Singapore. [[pdf](#)]
118. Füreder, P., **Hölbling, D.**, Lang, S., Tiede, D., Zeil, P., 2012. How can Earth Observation help in humanitarian crises? Semi-automated assessment of refugee/IDP camp evolution and population dynamics [Poster]. *Angewandte Geoinformatik 2012*, Salzburg, Austria, 4-6 July.
119. Füreder, P., Lang, S., **Hölbling, D.**, Tiede, D., Rogenhofer, E., Papp, A., 2012. Monitoring camp evolution of the refugee camp Dagahaley, Kenya, using satellite imagery [Poster]. *MSF Scientific Day*, London, Great Britain, 25 May.

120. **Hölbling, D.**, 2012. Object-based Image Analysis for Integrated Landslide Mapping [Poster]. *1st DK GIScience Symposium*, Salzburg, Austria, 20 April.
121. **Hölbling, D.**, Füreder, P., Tsai, V., Friedl, B., 2012. Automated object-based landslide and debris flow identification - a case study for supporting disaster management in Taiwan. *Geophysical Research Abstracts*, Vol. 14, EGU General Assembly 2012-7513, Vienna, Austria. [[pdf](#)]
122. Friedl, B., **Hölbling, D.**, Füreder, P., 2012. Combining TerraSAR-X and SPOT-5 data for object-based landslide detection. *Geophysical Research Abstracts*, Vol. 14, EGU General Assembly 2012-8663, Vienna, Austria. [[pdf](#)]
123. **Hölbling, D.**, Füreder, P., 2011. A (semi-)automated object-based approach for landslide detection based on SPOT-5 imagery and digital elevation data. *Geophysical Research Abstracts*, Vol. 13, EGU General Assembly 2011-6786, Vienna, Austria. [[pdf](#)]
124. Hagenlocher, M., Lang, S., **Hölbling, D.**, 2011. A spatial meta-indicator for identifying and evaluating hotspots of climate-related drivers for conflict and migration in the Sahel. *Geophysical Research Abstracts*, Vol. 13, EGU General Assembly 2011-9413-1, Vienna, Austria. [[pdf](#)]
125. Kranz, O., Bruckert, D., Lang, S., Tiede, D., **Hölbling, D.**, Füreder, P., Uribe, C., Clandillon, S., 2009. GMES Services Supporting EU Peace-Keeping Missions Support to Mission Planning for the European Forces Chad/RCA [Poster]. *33rd International Symposium on Remote Sensing of Environment (ISRSE)*, Stresa, Italy.
126. **Hölbling, D.**, 2007. Objekt-basierte Klassifikation relevanter urbaner Grünstrukturtypen auf höchstauflösenden Fernerkundungsdaten - Automatisierung und Übertragung [Poster]. *12. Münchner Fortbildungsseminar, Runder Tisch GIS e. V.*, Munich, Germany.
127. Schöpfer, E., Lang, S., **Hölbling, D.**, 2006. Der Durchgrünungsgrad der Stadt Salzburg - Integration von subjektiver Wahrnehmung in den Prozess der automatisierten Satellitenbildklassifikation [Poster]. *Zukunftsweisendes Planen und Bauen*, Salzburg, Austria.
128. **Hölbling, D.**, Schöpfer, E., Lang, S., 2005. Punkt- vs. objekt-basierte Genauigkeitsabschätzung - Ein Methodenvergleich im Rahmen des Projekts „Durchgrünungsgrad“ [Poster]. *AGIT - Symposium für Angewandte Geographische Informationsverarbeitung 2005*, Salzburg, Austria.

Other publications

129. **Hölbling, D.**, 2010. software_TEST: ERDAS IMAGINE Objective 9.3. *UNIGIS OFFLINE* [Information für UNIGIS-Studierende und AbsolventInnen], 42 (1/10). Salzburg, p. 3. [[pdf](#)]

130. **Höbbling, D.**, 2006. Objekt-basierte Klassifikation relevanter urbaner Grünstrukturtypen auf höchstauflösenden Fernerkundungsdaten - Automatisierung und Übertragung. *Unpublished Master Thesis, University of Salzburg, Salzburg, Austria.*