

List of Publications, 03/2021

Dr. Frank Thonfeld

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Guest-Editor of "Special Issues":

Sustainability - Special Issue "Sustainability Assessment of Land Use and Land Cover",
https://www.mdpi.com/journal/sustainability/special_issues/land_use_land_cover

European Journal of Remote Sensing - Special Issue "EARSeL Symposium 2016, Bonn, Germany", <https://think.taylorandfrancis.com/frontiers-in-earth-observation/>

Peer-reviewed:

1. Holzwarth, S., Thonfeld, F., Abdullahi, S., Asam, S., Da Ponte Canova, E., Gessner, U., Huth, J., Kraus, T., Leutner, B. & C. Kuenzer (2020): Earth Observation Based Monitoring of Forests in Germany: A Review. *Remote Sensing* 12, 3570. <https://doi.org/10.3390/rs12213570>
2. Muro, J., Varea, A., Strauch, A., Guelmami, A., Fitoka, E., Thonfeld, F., Diekkrüger, B. & B. Waske (2020): Multitemporal optical and radar metrics for wetland mapping at national level in Albania. *Heliyon* 6, e04496. <https://doi.org/10.1016/j.heliyon.2020.e04496>.
3. Thonfeld, F., Steinbach, S., Muro, J., Hentze, K., Games, I., Näschen, K. & P.F. Kauzeni (2020): The impact of anthropogenic land use change on the protected areas of the Kilombero catchment, Tanzania. *ISPRS Journal of Photogrammetry and Remote Sensing* 168, 41–55. <https://doi.org/10.1016/j.isprsjprs.2020.07.019>.
4. Weise, K., Höfer, R., Franke, J., Guelmami, A., Simonson, W., Muro, J., O'Connor, B., Strauch, A., Flink, S., Eberle, J., Mino, E., Thulin, S., Philipson, P., van Valkengoed, E., Truckenbrodt, J., Zander, F., Sánchez, A., Schröder, C., Thonfeld, F., Fitoka, E., Scott, E., Ling, M., Schwarz, M., Kunz, I., Thürmer, G., Plasmeijer, A. & L. Hilarides (2020): Wetland extent tools for SDG 6.6.1 reporting from the Satellite-based Wetland Observation Service (SWOS). *Remote Sensing of Environment* 247, 111892. <https://doi.org/10.1016/j.rse.2020.111892>.
5. Heinemann, S., Siegmann, B., Thonfeld, F., Muro, J., Jedmowski, C., Kemna, A., Kraska, T., Muller, O., Schultz, J., Udelhoven, T., Wilke, N. & U. Rascher (2020): Land Surface Temperature Retrieval for Agricultural Areas Using a Novel UAV Platform Equipped with a Thermal Infrared and Multispectral Sensor. *Remote Sensing* 12, 1075. <https://doi.org/10.3390/rs12071075>.
6. Thonfeld, F., Steinbach, S., Muro, J. & F. Kirimi (2020): Long-Term Land Use/Land Cover Change Assessment of the Kilombero Catchment in Tanzania Using Random Forest Classification and Robust Change Vector Analysis. *Remote Sensing* 12, 1057. <https://doi.org/10.3390/rs12071057>
7. Näschen, K., B. Diekkrüger, M. Evers, B. Höllermann, S. Steinbach & F. Thonfeld (2019): The Impact of Land Use/Land Cover Change (LULCC) on Water Resources in a Tropical Catchment in Tanzania under Different Climate Change Scenarios. *Sustainability* 11, 7083. <https://doi.org/10.3390/su11247083>.

8. Schultz, J.A., M. Hartmann, S. Heinemann, J. Janke, C. Jürgens, D. Oertel, G. Rucker, F. Thonfeld & A. Rienow (2019): DIEGO: A Multispectral Thermal Mission for Earth Observation on the International Space Station. *European Journal of Remote Sensing* 1–11. <https://doi.org/10.1080/22797254.2019.1698318>.
9. Muro, J., A. Strauch, E. Fitoka, M. Tompoulidou & F. Thonfeld (2019): Mapping Wetland Dynamics with SAR-Based Change Detection in the Cloud. *IEEE Geoscience and Remote Sensing Letters* 16, 10, 1536–1539. <https://doi.org/10.1109/LGRS.2019.2903596>.
10. Gabiri, G., C. Leemhuis, B. Diekkrüger, K. Näschen, S. Steinbach & F. Thonfeld (2019): Modelling the impact of land use management on water resources in a tropical inland valley catchment of central Uganda, East Africa. *Science of The Total Environment* 653, 1052–1066. <https://doi.org/10.1016/j.scitotenv.2018.10.430>.
11. Kirimi, F., K. Thiong, G. Gabiri, B. Diekkrüger & F. Thonfeld (2018): Assessing seasonal land cover dynamics in the tropical Kilombero floodplain of East Africa. *Journal of Applied Remote Sensing* 12, 24. <https://doi.org/10.1117/1.JRS.12.026027>.
12. Näschen, K., B. Diekkrüger, C. Leemhuis, S. Steinbach, L.S. Seregina, F. Thonfeld & R. van der Linden (2018): Hydrological Modeling in Data-Scarce Catchments: The Kilombero Floodplain in Tanzania. *Water* 10, 599. <https://doi.org/10.3390/w10050599>.
13. Muro, J., A. Strauch, S. Heinemann, S. Steinbach, F. Thonfeld, B. Waske, B. Diekkrüger (2018): Land surface temperature trends as indicator of land use changes in wetlands. *International Journal of Applied Earth Observation and Geoinformation* 70, 62–71. <https://doi.org/10.1016/j.jag.2018.02.002>.
14. Leemhuis, C., Thonfeld, F., Näschen, K., Steinbach, S., Muro, J., Strauch, A., López, A., Daconto, G., Games, I. & B. Diekkrüger (2017): Sustainability in the Food-Water-Ecosystem Nexus: The Role of Land Use and Land Cover Change for Water Resources and Ecosystems in the Kilombero Wetland, Tanzania. *Sustainability* 9, 1513. doi:10.3390/su9091513.
15. Hentze, K., Thonfeld, F. & G. Menz (2017): Beyond trend analysis: How a modified breakpoint analysis enhances knowledge of agricultural production after Zimbabwe’s fast track land reform. *International Journal of Applied Earth Observation and Geoinformation* 62, 78–87. doi:10.1016/j.jag.2017.05.007.
16. Locher-Krause, K. E. , M. Volk, B. Waske, F. Thonfeld & S. Lautenbach (2017): Expanding temporal resolution in landscape transformations: Insights from a landsat-based case study in Southern Chile. *Ecological Indicators*, 75, 132-144, <http://dx.doi.org/10.1016/j.ecolind.2016.12.036>.
17. Muro, J., M. Canty, K. Conradsen, C. Hüttich, A. A. Nielsen, H. Skriver, F. Remy, A. Strauch, F. Thonfeld & G. Menz (2016): Short-term change detection in wetlands using Sentinel-1 time series. *Remote Sensing*, 8, 10, 795, doi:10.3390/rs8100795.
18. Hentze, K., F. Thonfeld & G. Menz (2016): Evaluating Crop Area Mapping from MODIS Time-Series as an Assessment Tool for Zimbabwe’s “Fast Track Land Reform Programme”. *PLoS ONE* 11(6): e0156630. doi:10.1371/journal.pone.0156630.
19. Thonfeld, F., H. Feilhauer, M. Braun & G. Menz (2016): Robust Change Vector Analysis (RCVA) for multi-sensor very high resolution optical satellite data. *International Journal of Applied Earth Observation and Geoinformation*, 50, 131-140, ISSN 0303-2434, <http://dx.doi.org/10.1016/j.jag.2016.03.009>.

20. Kirimi, F., D. Kuria, F. Thonfeld, E. Amler, K. Mubea, S. Misana & G. Menz (2016): Influence of Vegetation Cover on the Oh Soil Moisture Retrieval Model: A Case Study of the Malinda Wetland, Tanzania. *Advances in Remote Sensing*, 5, 28-42. doi: 10.4236/ars.2016.51003.
21. Thiong'o, K., R. Pasternak, A. Kleusberg, F. Thonfeld & G. Menz (2015): Separability of Dominant Crop Cultures in Southern Germany Using TerraSAR-X Data. *Advances in Remote Sensing*, 4, 97-107. doi:10.4236/ars.2015.42009.
22. Tewes, A., F. Thonfeld, M. Schmidt, R. J. Oomen, X. Zhu, O. Dubovyk, G. Menz & J. Schellberg (2015): Using RapidEye and MODIS Data Fusion to Monitor Vegetation Dynamics in Semi-Arid Rangelands in South Africa. *Remote Sensing* 7, 6, 6510-6534. <http://dx.doi.org/10.3390/rs70606510>.
23. Dubovyk, O., G. Menz, A. Lee, J. Schellberg, F. Thonfeld & A. Khamzina (2015): SPOT-Based Sub-Field Level Monitoring of Vegetation Cover Dynamics: A Case of Irrigated Croplands. *Remote Sensing* 7, 6, 6763-6783. <http://dx.doi.org/10.3390/rs70606763>.
24. Thonfeld, F., A. Hecheltjen & G. Menz (2015): Bi-temporal Change Detection, Change Trajectories and Time Series Analysis for Forest Monitoring. *Photogrammetrie - Fernerkundung - Geoinformation*, 2, 129-141. DOI: 10.1127/pfg/2015/0259.
25. Ali, M., C. Montzka, A. Stadler, G. Menz, F. Thonfeld & H. Vereecken (2015): Estimation and Validation of RapidEye-Based Time-Series of Leaf Area Index for Winter Wheat in the Rur Catchment (Germany). *Remote Sensing* 7, 3, 2808-2831. DOI:10.3390/rs70302808. <http://dx.doi.org/10.3390/rs70302808>.
26. Dubovyk, O., G. Menz, C. Conrad, F. Thonfeld, A. Khamzina (2013): Object-based identification of vegetation cover decline in irrigated agro-ecosystems in Uzbekistan. *Quaternary International*. 311, 163-174. <http://dx.doi.org/10.1016/j.quaint.2013.07.043>.
27. Feilhauer, H., F. Thonfeld, U. Faude, K. S. He, D. Rocchini & S. Schmidlein (2013): Assessing floristic composition with multispectral sensors—A comparison based on monotemporal and multiseasonal field spectra. *International Journal of Applied Earth Observation and Geoinformation* 21, 218-229. <http://dx.doi.org/10.1016/j.jag.2012.09.002>.

Books

1. Rienow, A., Thonfeld, F., Valentin, A. (2018): *Flächenverbrauch in der Metropolregion Rheinland 1975–2030, essentials*. Springer Fachmedien Wiesbaden, Wiesbaden. <https://doi.org/10.1007/978-3-658-20399-3>.

Book Chapter (peer-reviewed)

1. Rienow, A., N.J. Schneevoigt & F. Thonfeld (2018): Quantification and Prediction of Land Consumption and Its Climate Effects in the Rhineland Metropolitan Area Based on Multispectral Satellite Data and Land-Use Modelling 1975–2030, in: Rocha, J., Tenedório, J.A. (Eds.), *Spatial Analysis, Modelling and Planning*. IntechOpen, pp. 151–168.

2. Hechteljen, A., F. Thonfeld & G. Menz (2014): Recent advances in remote sensing change detection - a review. In: Manakos, I. & M. Braun (Eds.): Land use and land cover mapping in Europe. Practices and trends. Springer Dordrecht, Heidelberg, New York, London, 145-178.
3. Ackermann, N., F. Becker, C. Berger, M. Bindel, J. Eberle, I. Elbertzhagen, K.-H. Franke, A. Hechteljen, T. Koch, T. Kubertschak, G. Menz, T. Riedel, C. Schmullius, M. Schwarz, F. Thonfeld, K. Weise, B. Wolf (2012): ENVILAND 2 – Von multisensoralen Satellitenbildern zu operationellen Produkten. In: Borg, E., H. Daedelow & R. Johnson (Hrsg.): RapidEye Science Archive (RESA) „Vom Algorithmus zum Produkt“. Tagungsband zum 4. RESA Workshop, Neustrelitz, 21.-22. März 2012. GITO Verlag, Berlin, ISBN-13: 9783942183611, S. 123-149.

Conference Proceedings:

1. König, S., Schultz, J., Dubovyk, O., Thonfeld, F., 2020. Assessment of Drought Effects on Forests using Non-Parametric Methods and Satellite Imagery, in: Kersten, T.P. (Ed.), Publikationen Der Deutschen Gesellschaft Für Photogrammetrie, Fernerkundung Und Geoinformation e.V. Presented at the 40. Wissenschaftlich-Technische Jahrestagung der DGPF, Stuttgart, pp. 1–12.
2. König, S., Schultz, J.A., Schoch, A., Blöthe, J., Schrott, L., Thonfeld, F. (2019): Mountain Permafrost Distribution Modeling – A Geomorphometry-Remote Sensing Approach for the Hohe Tauern National Park, Austria. Publikationen der DGPF, Dreiländertagung der DGPF, der OVG und der SGPF in Wien, Österreich 28, 675–685.
3. Schmidt, M., E. Amler, J. P. Guerschman, P. Scarth, K. Behn & F. Thonfeld (2016): Fractional vegetation cover of East African wetlands observed on ground and from space. Proceedings of the ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic, ESA SP-740 (DVD).
4. Thonfeld, F., E. Amler, F. Kirimi, S. Steinbach & G. Menz (2016): Long-term land cover and land use change detection in the Kilombero floodplain (Tanzania) using multitemporal metrics-based compositing. Proceedings of the ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic, ESA SP-740 (DVD).
5. Thiong'o, K. B., G. Menz & F. Thonfeld (2016): Assessing leaf area index from high resolution satellite datasets for maize in Trans Nzoia County, Kenya. Proceedings of the ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic, ESA SP-740 (DVD).
6. Thonfeld, F., M. Schmidt, O. Dubovyk & G. Menz (2015): On the relevance of radiometric normalization of dense Landsat time series for forest monitoring. IEEE International Geoscience and Remote Sensing Symposium IGARSS 2015, 26-31 July 2015, Milan, Italy, 2665-2668.
7. Dubovyk, O., T. Landmann, B. Erasmus, F. Thonfeld, J. Schellber & G. Menz (2015): Observing vegetation dynamics at medium spatial scale: lessons from Africa and Asia. IEEE International Geoscience and Remote Sensing Symposium IGARSS 2015, 26-31 July 2015, Milan, Italy, 3969-3972.
8. Thonfeld, F., A. A. Nielsen, H. Skriver, K. Conradsen & M. J. Canty (2013): Complex Wishart distribution-based change detection with polarimetric TerraSAR-X imagery.

Proceedings of the 5th TerraSAR-X / 4th TanDEM-X Science Team Meeting, 10-14 June 2013, Oberpfaffenhofen, Germany.

9. Thonfeld, F. & G. Menz (2013): Entwicklung eines robusten Veränderungsdetektionsverfahrens für räumlich hoch auflösende Satellitendaten. In: Seyfert, E. (Ed.): Publikationen der Deutschen Gesellschaft für Photogrammetrie, Fernerkundung und Geoinformation e. V., Band 22. 33. Wissenschaftlich-Technische Jahrestagung der DGPF, 27.2.-1.3.2013, Freiburg i. B., Drei-Länder-Tagung D-A-CH, 194-201. ISSN 0942-2870.
10. Feilhauer, H., F. Thonfeld, U. Faude, K. S. He, D. Rocchini & S. Schmidlein (2012): Important characteristics of multispectral data for an assessment of floristic variation. IEEE International Geoscience and Remote Sensing Symposium IGARSS 2012, 22-27 July 2012, Munich, Germany, 36-39.
11. Thonfeld, F. & G. Menz (2011): Coherence and multitemporal intensity metrics of high resolution SAR images for urban change detection. Proceedings of the 4th TerraSAR-X Science Team Meeting, 14-16 February 2011, Oberpfaffenhofen, Germany.
12. Thonfeld, F., A. Hechteljen, M. Braun & G. Menz (2010): From algorithms to processing chains: A review of land cover and land use change detection methodologies. Proceedings of the ESA Living Planet Symposium 2010, 28 June - 02 July 2010, Bergen, Norway, ESA SP-686 (CD-Rom).
13. Hechteljen, A., B. Waske, F. Thonfeld, M. Braun & G. Menz (2010): Support Vector Machines for multitemporal and multisensor change detection. Proceedings of the ESA Living Planet Symposium 2010, 28 June - 02 July 2010, Bergen, Norway, ESA SP-686 (CD-Rom).
14. Waske B., M. Braun, F. Thonfeld & I. Elbertzhagen (2010): Classifying multitemporal dual-polarized SAR data from agricultural areas in view of Sentinel-1. Proceedings of the ESA Living Planet Symposium 2010, 28 June - 02 July 2010, Bergen, Norway, ESA SP-686 (CD-Rom).
15. Nielsen, A., A. Hechteljen, F. Thonfeld, M. Canty (2010): Automatic change detection in RapidEye data using the combined MAD and Kernel MAF methods. IEEE International Geoscience and Remote Sensing Symposium IGARSS 2010, 25-30 July 2010, Honolulu, Hawaii.

Oral Presentations:

1. Thonfeld, F. (2020): Historical and Near-Real Time Forest Disturbance Detection Based on Satellite Time Series Data – Two Examples From Germany. DLR LAX-Seminar, 11 February 2020, DLR Oberpfaffenhofen, Weßling, Germany.
2. Thonfeld, F., Steinbach, S., Muro, J., Kirimi, F., Näschen, K., Hentze, K. & A. Strauch (2020): The Kilombero Floodplain Wetland (Tanzania) between Food Production and Wildlife Conservation. Festkolloquium 20 Jahre Fernerkundung in Jena, 7 February 2020, Jena, Germany.
3. Thonfeld, F., S. Steinbach, J. Muro & A. Strauch (2019): The Kilombero floodplain wetland (Tanzania) between food production and wildlife conservation. ESA Living Planet Symposium 2019, 13-17 May 2019, Milan, Italy.

4. Thonfeld, F. & S. König (2019): Historical and near-real time forest disturbance detection based on full-archive Landsat and Sentinel-2 data. ESA Living Planet Symposium 2019, 13-17 May 2019, Milan, Italy.
5. Thonfeld, F. & S. König (2018): Historical and Near-Real Time Forest Disturbance Detection Based on Full-Archive Data. ForestSAT 2018, 1-5 October 2018, College Park, Maryland, USA.
6. Thonfeld, F., F. Kirimi, M. Schmidt, E. Amler, A. Müller, S. Steinbach & G. Menz (2017): Land Use and Land Cover Changes (LULCC) of the Kilombero wetland at different spatial and temporal scales. Water Management Workshop, Morogoro, Tanzania, 9-10 October 2017.
7. Thonfeld, F. (2018): Landnutzungs- und Landschaftsstrukturwandel und deren Auswirkung auf das Klima. „Die klimaangepasste Stadt – Veränderungspotenziale nutzen“, 25 September 2018, Gelsenkirchen, Germany.
8. Thonfeld, F., Schmidt, M., Dubovyk, O., Menz, G., 2015. On the relevance of radiometric normalization of dense Landsat time series for forest monitoring. IEEE International Geoscience and Remote Sensing Symposium IGARSS 2015, 26-31 July 2015, Milan, Italy.
9. Thonfeld, F., M. Schmidt, O. Dubovyk & G. Menz (2015): Exploring the effects of radiometric normalization of dense Landsat time series for forest monitoring. 35th EARSeL Symposium 2015, 2nd International Workshop on Temporal Analysis of Satellite Images, 15-19 June 2015, Stockholm, Sweden.
10. Thonfeld, F., M. Schmidt, E. Amler, F. Kirimi, A. Müller & G. Menz (2015): Fusion von RapidEye-Zeitreihendaten mit UAV-Daten - Untersuchungen im Kilombero-Feuchtgebiet nahe Ifakara (Tansania). 7th RESA Workshop, 29.-30. April 2015, Bonn, Germany.
11. Thonfeld, F. & G. Menz (2013): Waldflächenveränderungsdetektion basierend auf Landsat-Zeitreihen. 2. Gemeinsame Tagung des Arbeitskreis Fernerkundung & des Arbeitskreis Auswertung von Fernerkundungsdaten, 26./27. September 2013, Tübingen, Germany.
12. Thonfeld, F., A. A. Nielsen, H. Skriver, K. Conradsen & M. J. Canty (2013): Complex Wishart distribution-based change detection with polarimetric TerraSAR-X imagery. 5th TerraSAR-X Science Team Meeting, 10-12 June 2013, Oberpfaffenhofen, Germany.
13. Thonfeld, F. & G. Menz (2013): Entwicklung eines robusten Veränderungsdetektionsverfahrens für räumlich hoch auflösende Satellitendaten. Wissenschaftlich-Technische Jahrestagung der DGPF, 27.2.-1.3.2013, Freiburg i. B., Drei-Länder-Tagung D-A-CH.
14. Thonfeld, F. & H. Feilhauer (2012): Modeling floristic gradients with simulated Sentinel-2 data. Sentinel-2 Preparatory Symposium, ESA-ESRIN, 23-27 April 2012, Frascati, Italy.
15. Thonfeld, F., Feilhauer, H. & G. Menz (2011): Auswirkung des Flächenanteils von Veränderungen bei der Schwellenwertbestimmung zur Unterscheidung von Veränderung und Nicht-Veränderung in Change-Detection-Anwendungen. AK Fernerkundung, 29-30 September 2011, Würzburg.

16. Thonfeld, F. & G. Menz (2011): Coherence and multitemporal intensity metrics of high resolution SAR images for urban change detection. 4th TerraSAR-X Science Team Meeting, 14-16 February 2011, Oberpfaffenhofen, Germany.
17. Thonfeld, F., A. Hecheltjen, M. Braun & G. Menz (2010): A review of change detection methods and their operational implementation for certain applications. 30th EARSeL Symposium "Remote Sensing for Science, Education, and Natural and Cultural Heritage", 31 May - 03 June 2010, Paris, France.

Posters:

1. König, S., Schultz, J. & F. Thonfeld (2019): Multi-Sensor Remote Sensing Data Fusion And Machine Learning For Regional Scale Mountain Permafrost Distribution Modelling. 39. EARSeL Symposium, 1-4 July 2019, Salzburg, Austria.
2. König, S. & F. Thonfeld (2019): Assessing the 2018 Drought in selected areas of Germany using a Non-Parametric Phenology Estimate. Center for Remote Sensing of Land Surfaces (ZFL) Annual Workshop, 23 May 2019, Bonn, Germany.
3. Steinbach, S., Hentze, K., Franke, J., Cornish, N., Strauch, A., Thonfeld, F., Zwart, S. & A. Nelson (2019): Earth Observation for ecosystem monitoring at the interface of wetland conservation and food production in Rwanda. ESA Living Planet Symposium, 13-17 May 2019, Milan, Italy.
4. König, S., Schultz, J.A., Schoch, A., Blöthe, J., Schrott, L., Thonfeld, F. (2019): Mountain Permafrost Distribution Modeling – A Geomorphometry-Remote Sensing Approach for the Hohe Tauern National Park, Austria. Publikationen der DGPF, Dreiländertagung der DGPF, der OVG und der SGPF in Wien, Österreich 28, 675–685.
5. Basukala, A.K., Bollig, M., Greiner, C., Vehrs, H.P., Thonfeld, F., 2018. Spatio-Temporal Analysis of Land Use Land Cover Change in East Pokot, Kenya. Tropentag 2018: Global food security and food safety: The role of universities, 17-19 September 2018, Ghent, Belgium.
6. Steinbach, S., Hentze, K., Franke, J., Cornish, N., Strauch, A., Thonfeld, F., 2018. DeMo-Wetlands: Copernicus-based Detection and Monitoring of tropical wetlands in Rwanda. A contribution to land cover mapping for developing countries. 38th EARSeL Symposium 2018 & 3rd joint EARSeL LULC & NASA LCLUC Workshop, 9-12 July 2018, Chania, Greece.
7. Heinemann, S., König, S., Wittneben, K., Schultz, J., Muro, J., Siegmann, B., Jedmowski, C., Muller, O., Thonfeld, F., Udelhoven, T., Kemna, A., Rascher, U., 2018. Land Surface Temperature Retrieval of Agricultural Areas using Thermal and Multispectral Sensors mounted on a Fixed-Wing Drone. 38th EARSeL Symposium 2018 & 3rd joint EARSeL LULC & NASA LCLUC Workshop, 9-12 July 2018, Chania, Greece.
8. Schneevoigt, N.J., Oldenburg, C., Rienow, A., Valentin, A., Thonfeld, F., 2018. Half a century of land use and cover change in North Rhine-Westphalia (NRW), Germany. ICLEI Resilient Cities, 26-28 April 2018, Bonn, Germany.
9. Muro, J.M., Strauch, A., Fitoka, E., Thonfeld, F., 2018. SAR based change detection for mapping wetlands' dynamics. Mapping Water Bodies From Space, 27-28 March 2018, Frascati, Italy.

10. Muro, J., Strauch, A., Heinemann, S., Thonfeld, F., 2017. LST time series as indicator of land use changes in wetlands. 5th International Symposium: Recent Advances in Quantitative Remote Sensing, 18-22 September 2017, Valencia, Spain.
11. Thonfeld, F., S. Steinbach, J. Muro, I. Games, E. Amler, F. Fridah Kirimi & M. Schmidt (2018): The Kilombero Floodplain Wetland (Tanzania) between Food Production and Wildlife Conservation. 3rd joint EARSeL SIG LULC & NASA LCLUC Workshop, Chania, Greece, 11-12 July 2018.
12. Muro, J., Lopez, A., Strauch, A., Steinbach, S., Truckenbrodt, J., Thonfeld, F., 2017. 25 years of landscape changes in the Kilombero floodplain, Tanzania. World Cover 2017, 14-16 March 2017, Frascati, Italy.
13. Thonfeld, F., S. Steinbach, E. Amler, F. Kirimi & G. Menz (2017): The role of the Kilombero wetland (Tanzania) for food production - long-term change assessment based on image composites. Workshop "Möglichkeiten und Herausforderungen im Kontext aktueller und zukünftiger Erdbeobachtungsdaten", Helmholtz-Zentrum für Umweltforschung (UFZ) und Deutsches Luft- und Raumfahrtzentrum (DLR), 9-10 March 2017, KUBUS, Leipzig.
14. Gabiri, G., Diekkrüger, B., Leemhuis, C., Thonfeld, F., Näschen, K., Beuel, S., 2016. Monitoring Soil Moisture Patterns in an Agriculturally Used Wetland in Central Uganda. Tropentag 2016, 18-21 September 2016, Vienna, Austria.
15. Garvin, J. B., G. Asrar, J. J. Frawley, F. Thonfeld, G. Menz & D. Slayback (2016): Birth, life and death of a surtseyan volcanic island in the southwestern Pacific – the story of Hunga Tonga Hunga Ha'apai, Kingdom of Tonga. ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic.
16. Heinemann, S., J. Muro, A. Burkart, J. Schultz, F. Thonfeld, & G. Menz (2016): Innovative Approach to Retrieve Land Surface Emissivity and Land Surface Temperature in Areas of Highly Dynamic Emissivity Changes by using thermal Infrared Data. ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic.
17. Kirimi, F., F. Thonfeld, E. Amler, S. Steinbach & G. Menz (2016): Mapping of East African wetlands using multisensory remote sensing. ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic.
18. Kirimi, F. K., F. Thonfeld & G. Menz (2016): Tropical Wetland Monitoring using RapidEye and Sentinel 1 in Ifakara (Tanzania). ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic.
19. Schmidt, M., E. Amler, J. P. Guerschman, P. Scarth, K. Behn & F. Thonfeld(2016): Fractional vegetation cover of East African wetlands observed on ground and from space. ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic.
20. Thonfeld, F., E. Amler, F. Kirimi, S. Steinbach & G. Menz (2016): Long-term land cover and land use change detection in the Kilombero floodplain (Tanzania) using multitemporal metrics-based compositing. ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic.
21. Thiong'o, K. B., G. Menz & F. Thonfeld (2016): Assessing leaf area index from high resolution satellite datasets for maize in Trans Nzoia County, Kenya.ESA Living Planet Symposium 2016, 9 - 13 May 2016, Prague, Czech Republic.

22. Thonfeld, F., Steinbach, S., Kirimi, F., Amler, E., Schmidt, M., Menz, G., 2016. Land use classification in the Kilombero Catchment (Tansania) based on multitemporal RapidEye composites. RESA Workshop 2016, Bonn, Germany.
23. Henning, T., Kirimi, F., Amler, E., Thonfeld, F., Müller, A., Steinbach, S., Menz, G., 2015. Multiscale mapping of East African wetlands using multi sensor remote sensing. AK Fernerkundung, 24-25 September 2015, Bonn, Germany.
24. Kirimi, F., Amler, E., Thonfeld, F., Schmidt, M., Menz, G., 2014. Mapping East African wetlands from space: The GlobE Approach. AK Fernerkundung, 9-10 October 2014, Berlin, Germany.
25. Thonfeld, F., H. Feilhauer, G. Menz, O. Dubovyk (2014): Spatio-temporal evaluation of spectral indices in a forest environment and implications for change detection. The 4th International Symposium on Recent Advances in Quantitative Remote Sensing: RAQRS'IV, 22-26th September 2014, Valencia, Spain.
26. Thonfeld, F., H. Feilhauer, O. Dubovyk, M. Schmidt & G. Menz (2014): Multi-decadal forest monitoring using dense satellite time series. Sentinel-2 for Science Workshop, ESA-ESRIN, 20-22 May 2014, Frascati (Rome), Italy.
27. Thonfeld, F. & G. Menz (2014): Don't trust a pixel? Don't trust one observation! Forest Cover Change Detection using the Landsat Archive. 5th Workshop of the EARSeL Special Interest Group on Land Use and Land Cover: "Frontiers in Earth Observation for Land System Science", Joint Workshop of the EARSeL SIG LULC and the NASA LCLUC Science Team, Humboldt-Universität zu Berlin, 17-18 March, 2014, Berlin, Germany.
28. Locher, K., S. Lautenbach, M. Volk, B. Waske & F. Thonfeld (2013): Landsat time series analysis: key to understand human impact in Chilean Patagonian ecosystems. 43rd Annual Meeting of the Ecological Society of Germany, Austria and Switzerland, 09-13 September 2013, Potsdam, Germany.
29. Thonfeld, F. & G. Menz (2013): Forest monitoring using all archived Landsat data. ESA Living Planet Symposium 2013, 09-13 September 2013, Edinburgh, Scotland.
30. Thonfeld, F. & H. Feilhauer (2013): Assessing floristic composition with multispectral sensors. ESA Living Planet Symposium 2013, 09-13 September 2013, Edinburgh, Scotland.
31. Feilhauer, H., F. Thonfeld, U. Faude, K. He, D. Rocchini & S. Schmidlein (2012): The potential of different satellite sensors for an assessment of habitat conditions. 42. Jahrestagung der Gesellschaft für Ökologie (GFÖ), 10-14 September 2012, Lüneburg, Germany.
32. Thonfeld, F., H. Feilhauer & G. Menz (2012): Simulation of Sentinel-2 images from hyperspectral data. Sentinel-2 Preparatory Symposium, ESA-ESRIN, 23-27 April 2012, Frascati, Italy.
33. Elbertzhagen, I., F. Thonfeld & G. Menz (2012): SVM-based agricultural land use assessment using Sentinel-2 simulation data. Sentinel-2 Preparatory Symposium, ESA-ESRIN, 23-27 April 2012, Frascati, Italy.
34. Thonfeld, F., A. Hecheltjen & G. Menz (2011): Robust change vector analysis (RCVA) - A change detection tool for high spatial resolution optical data. EARSeL Special Interest

- Group Land Use/Land Cover (SIG LULC) Conference, 31 May - 3 June 2011, Prague, Czech Republic.
35. Hechteljen, A., F. Thonfeld & G. Menz (2011): Automated labeling of land cover changes. EARSeL Special Interest Group Land Use/Land Cover (SIG LULC) Conference, 31 May - 3 June 2011, Prague, Czech Republic.
 36. Hechteljen, A., F. Becker, I. Elbertzhagen, F. Thonfeld & G. Menz (2011): Satellitengestützte Änderungskarten – Zum Einfluss von Validierungsflächen auf die Genauigkeit. Deutsche Gesellschaft für Geographie (DGfG), Arbeitskreis Fernerkundung, 29.-30. September 2011, Würzburg, Germany.
 37. Thonfeld, F., A. Hechteljen, M. Braun & G. Menz (2010): From algorithms to processing chains: A review of land cover and land use change detection methodologies. Proceedings of the ESA Living Planet Symposium 2010, 28. June – 02 July 2010, Bergen, Norway.
 38. Hechteljen, A., F. Thonfeld, M. Braun & G. Menz (2009): Process chains for change detection: A review. EARSeL Special Interest Group Land Use/Land Cover (SIG LULC) Conference, 25-27 November 2009, Bonn, Germany.

Research Blog Posts:

1. Schneevoigt, N.J., H. Wolpensinger, C. Oldenburg, A. Rienow, F. Thonfeld & A. Valentin (2017): Town and Country in the Flow - Network for the Creation of a sustainable Climate Landscape (KlimNet). Research Blog Post - Urban. 3rd German Future Earth Summit "From Knowledge to Action", 8-9 February 2018, Berlin, Germany.
2. Hentze, K., Thonfeld, F., 2019. How satellites can locate potential land grabs in Africa. Story Line, First Prize awarded at the Data Story Contest, <https://www.arcgis.com/apps/Cascade/index.html?appid=5f39e46767754625854b32005651ca17>, published 28 May 2019. Poster presented at the Land Conference 2019, 4-5 July 2019, Utrecht, The Netherlands.

Data:

1. Thonfeld, F., Steinbach, S., Muro, J. & F. Kirimi (2020): Land use/land cover maps 1974, 1994, 2004, 2014 of the Kilombero catchment, Tanzania. PANGAEA, <https://doi.org/10.1594/PANGAEA.915851>.