

DLR-DFD-GZS-C&S

Publications (since 2013)

Peer-reviewed Journals

2019

1. Taubenböck H, Weigand M, Esch T, Staab J, Wurm M, Mast J & Dech S (2019): *A new ranking of the world's largest cities - Do administrative units obscure morphological realities?* Remote Sensing of Environment. vol. 232.
2. Geiß, C, Aravena Pelizari P, Blickensdörfer L & Taubenböck H (2019): *Virtual support vector machines with self-learning strategy for classification of multispectral remote sensing imagery*. ISPRS Journal of Photogrammetry and Remote Sensing. vol. 151, pp. 42-58.
3. Wurm M, Stark, T, Zhu, XX, Weigand M, & Taubenböck H (2019): *Semantic segmentation of slums in satellite images using transfer learning on fully convolutional neural networks*. ISPRS Journal of Photogrammetry and Remote Sensing. vol. 150, pp. 59-69.
4. Leichtle T, Lakes T, Zhu X & Taubenböck H (2019): *Has Dongying developed to a ghost city? Evidence from multi-temporal population estimation based on VHR remote sensing in Dongying, China*. Computers, Environment and Urban Systems. 78.
5. Weigand M, Wurm M, Dech S & Taubenböck H (2019): *Remote sensing in Environmental Justice Research – A Review*. ISPRS Internatl. Journal of Geo-Information. vol. 8(20), pp. 1-28.
6. Geiß C, Leichtle T, Wurm M, Aravena Pelizari P, Standfuß I, Zhu XX, So E, Siedentop S, Esch T, Taubenböck H (2019): *Large-Area Characterization of Urban Morphology – Mapping Built-Up Height and Density with the TanDEM-X Mission and Sentinel-2*. IEEE Journal of Selected Topics in Applied Earth Observation and Remote Sensing.
7. Wurm M, Goebel J, Wagner GG, Weigand M, Dech S & Taubenböck H (2019): *Inferring built density thresholds for the delineation of city centers based on cognitive perception*. Environment and Planning B: Urban Analytics and City Science. DOI: 10.1177/2399808319869341.
8. Taubenböck H, Gerten C, Rusche K, Siedentop S & Wurm M (2019): *Patterns of Eastern European Urbanisation in the Mirror of Western Trends – Convergent, Unique or Hybrid?* Environment and Planning B: Urban Analytics and City Science. vol. 46(7) pp. 1206-1225.
9. Geiß C, Aravena Pelizari P, Bauer S, Schmitt A & Taubenböck H (2019): *Automatic Training Set Compilation with Multisource Geodata for DTM Generation from the TanDEM-X DSM*. Geoscience and Remote Sensing Letters. DOI: 10.1109/LGRS.2019.2921600
10. Taubenböck H, Wurm M, Geiß C, Dech S & Siedentop S (2019): *Urbanization between compactness and dispersion – Designing a spatial model for measuring 2D binary settlement landscape configurations*. International Journal of Digital Earth. vol. 12(6), pp. 679-698.
11. Stiller D, Ottinger M & Leinenkugel P (2019): *Spatio-Temporal Patterns of Coastal Aquaculture Derived from Sentinel-1 Time Series Data and the Full Landsat Archive*. Remote Sensing. 11(14).
12. Shi L, Taubenböck H, Zhang Z, Liu F & Wurm M (2019): *Urbanization in China from the end of 1980s until 2010 – Spatial dynamics and patterns of growth using EO-data*. International Journal of Digital Earth. vol. 12(1), pp. 78-94.
13. Liuzzi M, Aravena Pelizari P, Geiß C, Masi A, Tramutoli V & Taubenböck H (2019): *A transferable remote sensing approach to classify building structural types for seismic risk analyses: the case of Val d'Agri area (Italy)*. Bulletin of Earthquake Engineering. vol. 17(9), pp. 4825–4853.



14. Zhu Z, Zhou Y, Seto K, Stokes E, Deng C, Pickett STA & Taubenböck H (2019): *Understanding an urbanizing planet: Strategic directions for remote sensing*. Remote Sensing of Environment. vol. 228, pp. 164-182.
15. Friesen J, Taubenböck H, Wurm M & Pelz PF (2019): *Size Distributions of slums across the globe using different data and classification methods*. European Journal of Remote Sensing. vol. 52. No. S2, pp. 99-111.

2018

16. Aravena Pelizari P, Spröhnle K, Geiß C, Schöpfer E, Plank S & Taubenböck H (2018): *Multi-sensor feature fusion for very high spatial resolution built-up area extraction in temporary settlements*. Remote Sensing of Environment. 209, pp. 793-807.
17. Wurm M & Taubenböck H (2018): *Detecting social groups from space – Remote sensing-based mapping of morphological slums and assessment with income data*. Remote Sensing Letters. vol. 9(1), pp. 41-50.
18. Taubenböck H, Kraff N & Wurm M (2018): *The morphology of the Arrival City – A global categorization based on literature surveys and remotely sensed data*. Applied Geography, vol. 92, pp. 150-167.
19. Geiß C, Thoma M & Taubenböck H (2018): *Cost-sensitive multitask active learning for characterization of urban environments with remote sensing*. IEEE Geoscience and Remote Sensing Letters. vol. 15(6), pp. 922-926.
20. Taubenböck H, Staab J, Zhu XX, Geiß C, Dech S & Wurm M (2018): *Are the poor digitally left behind? Analyzing urban divides using remote sensing and twitter data*. ISPRS Internatl. Journal of Geo-Information. vol. 7(8), 304, pp. 1-18.
21. Georg I, Blaschke T & Taubenböck H (2018): *Are we in Boswash yet? A multi-source geodata approach to spatially delimit urban corridors*. ISPRS Internatl. Journal of Geo-Information, vol. 7(1), pp. 1-15.
22. Friesen J, Taubenböck H, Wurm M & Pelz P (2018): *The similar size of slums*. Habitat International, vol. 73, pp. 79-88.
23. Schmitt A, Sieg T, Wurm M & Taubenböck H (2018): *Automated slum detection using TerraSAR-X – A super-vised multi-scale and non-parametric classification approach based on the evaluation of local histograms*. International Journal of Applied Earth Observation & Geoinformation, vol. 64, pp. 181-198.
24. Kuffer M, Pfeffer K, Sliuzas R, Taubenböck H, Baud, I & van Maarseveen M (2018): *Capturing the urban divide in nighttime light images from the International Space Station*. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 11(8), pp. 2578-2586.
25. Kang J, Körner M, Wang Y, Taubenböck H & Zhu X (2018): *Building instances classification using street view images*. ISPRS Journal of Photogrammetry and Remote Sensing. vol. 145, pp. 44-59.
26. Wentz EA, York AM, Alberti M, Conrow L, Fischer H, Inostroza L, Jantz C, Pickett STA, Seto KC & Taubenböck H (2018): *Six fundamental aspects for conceptualizing multidimensional urban form*. Landscape and Urban Planning, vol. 179, pp. 55-62.
27. Kranz O, Schoepfer E, Lang S & Tegtmeyer R (2018): *Earth observation based multi-scale assessment of logging activities in the Democratic Republic of the Congo*. ISPRS Journal of Photogrammetry and Remote Sensing. vol. 144, pp. 254-267.
28. Selvakumaran, S., Plank, S., Geiß, C., Rossi, C., and Middleton, C. (2018): *Remote monitoring to predict bridge scour failure using Interferometric Synthetic Aperture Radar (InSAR) stacking techniques*. International Journal of Applied Earth Observation and Geoinformation, 73, 463-470.
29. Plank S, Nolde M, Richter R, Fischer C, Martinis S, Riedlinger T, Schoepfer E, Klein D (2018): *Monitoring of the 2015 Villarrica volcano eruption by means of DLR's experimental TET-1 satellite*. Remote Sensing, 10(9), 1379.

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30. Taubenböck H, Standfuß I, Wurm M, Krehl A & Siedentop S (2017): *Measuring morphologic polycentricity – A comparative analysis of urban mass concentrations using remote sensing data*. Computers, Environment and Urban Systems, vol. 64, pp 42-56.
31. Wurm M, Taubenböck H, Weigand M & Schmitt A (2017): *Slum mapping based on multi-scale texture features in polarimetric SAR data*. Remote Sensing of Environment, 194, pp. 190-204.
32. Geiß C, Schauß A, Riedlinger T, Dech S, Zelaya C, Guzman N, Hube M, Arsanjani J & Taubenböck H (2017): *Joint Use of Remote Sensing Data and Volunteered Geographic Information for Exposure Estimation: Evidence from Valparaíso, Chile*. Natural Hazards. Vol. 86, supplement 1, pp. 81-105.
33. Leichtle T, Geiß C, Wurm M, Lakes T & Taubenböck H (2017): *Unsupervised change detection in VHR remote sensing imagery – an object-based clustering approach in an urban environment*. International Journal of Applied Earth Observation & Geoinformation, 54, pp. 15-27.
34. Leichtle T, Geiß C, Lakes T & Taubenböck H (2017): *Class imbalance in unsupervised change detection - A diagnostic analysis from urban remote sensing*. International Journal of Applied Earth Observation & Geoinformation, 60, pp. 83-98.
35. Geiß C & Taubenböck H (2017): *One step back for a leap forward – towards operational measurements of elements at risk*. Editorial for the Special Issue in Natural Hazards. Volume 86, issue 1. pp. 1-6.
36. Geiß C, Aravena Pelizari P, Schrade H, Brenning A & Taubenböck H (2017): *On the effects of spatially non-disjunct training and test areas on estimated model generalization capabilities in supervised classification with spatial features*. IEEE Geoscience & Remote Sensing Letters. vol. 14(11), pp. 2008-2012.
37. Geiß C, Thoma M, Pittore M, Wieland M, Dech S & Taubenböck H (2017): *Multi-task Active Learning for Characterization of Built Environments with Multi-Sensor Earth Observation Data*. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. vol.10(12), pp. 5583 - 5597
38. Taubenböck H, Ferstl J & Dech S (2017): *Regions set in stone – Classifying and categorizing regions in Europe by settlement patterns derived from EO-data*. ISPRS Internatl. Journal of Geo-Information, 6(2), pp. 1-27.
39. Wurm M (2017): *Oliveira, Vitor (2016): Urban Morphology. An Introduction to the Study of the Physical Form of Cities*. Raumforschung und Raumordnung. Springer. DOI 10.1007/s13147-017-0481-4 ISSN 0034-0111
40. Spröhnle K, Fuchs E-M & Aravena Pelizari P (2017): *Object-Based Analysis and Fusion of Optical and SAR Satellite Data for Dwelling Detection in Refugee Camps*, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol.PP, no.99, pp.1-12.
41. Wei C, Taubenböck H & Blaschke T (2017): *Measuring urban agglomeration using city-scale daysmetric population map: a study in the Pearl River Delta, China*. Habitat International. 59, pp. 32-43.
42. 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 Sensing 9(1). pp. 1-25.
43. Aubrecht C, Meier P & Taubenböck H (2017): *Speeding up the clock in remote sensing – Identifying the ‘black spots’ in exposure dynamics by capitalizing on the full spectrum of joint high spatial and temporal resolution*. Natural Hazards, vol. 86, issue 1. pp. 177-182.
44. Vaz E, Taubenböck H, Kotha M, Arsanjani J (2017): *Urban change in Goa, India*. Habitat International. vol. 85, pp. 24-29.

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45. Geiß C, Klotz M, Schmitt A & Taubenböck H (2016): *Object-based morphological profiles for classification of remote sensing imagery*. IEEE Transactions on Geoscience and Remote Sensing, vol. 54(10), pp. 5952-5963.

46. Taubenböck H, Standfuß I, Klotz M & Wurm M (2016): *The physical density of the city – Deconstruction of the delusive density measure with evidence from two European megacities*. ISPRS Internatl. Journal of Geo-Information, 5(11), pp. 1-24.
47. Wurm M, Schmitt A & Taubenböck H (2016): *Building types classification using shape-based features and linear discriminant functions*. IEEE Journal of Selected Topics in Applied Earth Observation & Remote Sensing. vol.9, no. 5, pp.1901-1912.
48. Klotz M, Kemper T, Geiß C, Esch T & Taubenböck H (2016): *How good is the map? A multi-scale cross-comparison framework for global settlement layers: evidence from Central Europe*. Remote Sensing of Environment, 178, pp. 191-212.
49. Geiß C, Jilge M, Lakes T & Taubenböck H (2016): *Estimation of seismic vulnerability levels of urban structures by joint exploitation of in-situ data and multi-sensor remote sensing*. IEEE Journal of Selected Topics in Applied Earth Observation & Remote Sensing. vol.9, no. 5, pp.1913-1936.
50. Georg I, Blaschke T & Taubenböck H (2016): *New spatial dimensions of global cityscapes: From reviewing existing concepts to conceptual spatial approaches*. International Journal of Geographical Sciences. 26(3), pp. 355-380.
51. Georg I, Blaschke T & Taubenböck H (2016): *A global inventory of urban corridors based on perceptions and night-time light imagery*. ISPRS Internatl. Journal of Geo-Information. 5(12), pp. 1-19.
52. Schreyer J, Geiß C & Lakes T (2016): *TanDEM-X for large-area modeling of 3D urban vegetation – Evidence from Berlin, Germany*. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
53. Krehl A, Siedentop S, Taubenböck H & Wurm M (2016): *A comprehensive view on urban spatial structure: Urban density patterns of German city regions*. ISPRS International Journal of Geo-Information. 5(6), 76; pp. 1-21.

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54. Taubenböck H & Wiesner M (2015): *The spatial network of megaregions – Types of connectivity between cities based on settlement patterns derived from EO-data*. Computers, Environment & Urban Systems. vol. 54, pp. 165-180.
55. Geiß C, Wurm M, Breunig M, Felbier A & Taubenböck H (2015): *Normalization of TanDEM-X DSM data in urban environments with morphological filters*. IEEE Transactions on Geoscience & Remote Sensing, vol. 53, no. 8, pp. 4348-4362.
56. Taubenböck H & Wurm M (2015): *Wo beginnt die Stadt? Urbane Fernerkundung für stadtgeographische Forschung*. disP – The Planning Review. pp. 74-85.
57. Geiß C, Jilge M, Lakes T & Taubenböck H (2015): *Estimation of seismic vulnerability levels of urban structures by joint exploitation of in-situ data and multi-sensor remote sensing*. Journal of Selected Topics in Applied Earth Observation & Remote Sensing, vol. 9, pp. 1913-1936.
58. Geiß C & Taubenböck H (2015): *Object-based Post-classification Relearning*. IEEE Geoscience and Remote Sensing Letters. vol 12., no. 11, pp. 2336-2340.
59. Geiß C, Aravena Pelizari P, Marconcini M, Sengara W, Edwards M, Lakes T & Taubenböck H (2015): *Estimation of seismic building structural types using multi-sensor remote sensing and machine learning techniques*. ISPRS J of Photogrammetry & Remote Sensing. vol. 104, pp. 175-188.
60. Jain M, Knieling J & Taubenböck H (2015): *Urban transformation in the National Capital Territory of Delhi, India: The emergence and growth of slums?* In: Habitat International 48, pp. 87-96.
61. Kinkeldey C, Schiewe J, Gerstmann H, Götze C, Kit O, Lüdeke M, Taubenböck H & Wurm M (2015): *Evaluating the use of uncertainty visualization for exploratory analysis of land cover change: A qualitative expert user study*. Computers & Geosciences. vol. 84. pp. 46-53.
62. Turner W, Rondinini C, Pettorelli N, Mora B, Leidner A K, Szantoi Z, Buchanan G, Dech S, Dwyer J, Herold M, Koh L P, Leimgruber P, Taubenböck H, Wegmann M, Wikelski M & Woodcock C (2015): *Free and open satellite data are key to biodiversity conservation*. Biological Conservation 182, pp. 173-176.

63. Hideomi G, Post, J, Stein, E, Martinis S, Twele A, Mück M, Geiß C, Koshimura S & Matsuoka M (2015): *A Method for Detecting Buildings Destroyed by the 2011 Tohoku Earthquake and Tsunami Using Multitemporal TerraSAR-X Data*. IEEE Geoscience and Remote Sensing Letters, 12 (6), pp 1277-1281.

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64. Wurm M, d'Angelo P, Reinartz P & Taubenböck H (2014): *Investigating the applicability of Cartosat-1 DEMs and topographic maps to localize large-area urban mass concentrations*. Journal of Selected Topics in Applied Earth Observation & Remote Sensing. vol. 7(11), pp. 4138-4152.
65. Taubenböck H & Kraff N (2014): *The physical face of slums – A structural comparison of slums in Mumbai, India based on remotely sensed data*. Journal of Housing & the Built Environment. vol. 29, issue 1, pp. 15-38.
66. Geiß C, Taubenböck H, Post J, Tisch A, Tyagunov S & Lakes T (2014): *Assessment of buildings' seismic vulnerability from space*. Earthquake Spectra. vol. 30, no. 4, pp. 1553-1583.
67. Taubenböck H, Wiesner M, Felbier A, Marconcini M, Esch T & Dech S (2014): *New dimensions of urban landscapes: The spatio-temporal evolution from a polynuclei area to a mega-region based on remote sensing data*. Applied Geography. vol. 47, pp. 137-153.
68. Taubenböck H & Geiß C (2014): *Vulnerability and resilience research – a critical perspective*. Int J Disaster Risk Sci, vol. 5, pp. 86-87.
69. Fina S, Krehl A, Siedentop S, Taubenböck H, Wurm M (2014): *Dichter dran! Neue Möglichkeiten der Vernetzung von Geobasis-, Statistik- und Erdbeobachtungsdaten zur räumlichen Analyse und Visualisierung von Stadtstrukturen mit Dichteoberflächen und -profilen*. Raumforschung und Raumordnung, vol.72, pp. 179-194.

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70. Geiß C & Taubenböck H (2013): *Remote Sensing contributing to assess earthquake risk – from a literature review towards a road map*. Natural Hazards. vol. 68, Issue 1, pp. 7-48.
71. Taubenböck H, Klotz M, Wurm M, Schmieder J, Wagner B, Wooster M, Esch T & Dech S (2013): *Delineation of Central Business Districts in mega city regions using remotely sensed data*. Remote Sensing of Environment, 136, 386-401.
72. Taubenböck H & Strunz G (2013): *Widening a narrow road: Remote sensing contributing to the multi-faceted problem of earthquake risk reduction*. Editorial for a Special Issue in Natural Hazards. vol. 68(1), pp. 1-5.
73. Mück M, Taubenböck H, Post J, Wegscheider S, Strunz G, Sumaryono, Ismail FA (2013): *Assessing building vulnerability to earthquake and tsunami hazard using remotely sensed data*. Natural Hazards. vol. 68(1), pp. 97-114.
74. Taubenböck H, Goseberg N, Lämmel G, Setiadi N, Schlurmann T, Nagel K, Siegert F, Birkmann J, Traub KP, Dech S, Keuck V, Lehmann F, Strunz G & Klüpfel H (2013): *Risk Mitigation at the „Last-Mile“: From Science to Action by the example of Padang, Indonesia*. Natural Hazards. vol. 65(1), pp. 915-945.
75. Wegscheider S, Schneiderhan T, Mager A, Zwenzner H, Post J & Strunz G (2013): *Rapid mapping in support of emergency response after earthquake events*. Natural Hazards. vol. 68(1), pp. 181-195.
76. Turner W, Buchanan G, Rondinini C, Dwyer J, Pin Koh L, Leidner A, Leimgruber P, Mora B, Pettorelli N, Szantoi Z, Taubenböck H, Wegmann M, Wikelski M (2013): *Satellites: make data freely accessible*. Nature, vol. 498, June 2013, Correspondence, p. 37.
77. Jain M, Siedentop S, Taubenböck H & Namperumal S (2013): *From Suburbanisation to Counterurbanisation? Investigating urban dynamics in the National Capitol Region Delhi, India*. Environment and Urbanization Asia, 4(2), pp. 247-266.
78. Esch T, Marconcini M, Felbier A, Roth A, Heldens W, Huber M, Schwinger M, Taubenböck H, Müller A & Dech S (2013): *Urban footprint processor – Fully automated processing chain generating settlement masks from global data of the TanDEM-X mission*. IEEE Geoscience and Remote Sensing Letters. vol 10, no. 6, November 2013, pp. 1617-1621.

Non-reviewed Journals

1. Schöpfer E, Aravena Pelizari P, Geiß C, Riedlinger T & Taubenböck H (2019): „Was passiert, wenn...“ - *Vulnerabilität und Exposition von urbanen Räumen gegenüber Naturgefahren*. Special Issue „Städte im Krisenmodus?“ „*Transforming Cities*“ . 2/2019, pp. 38-42.
2. Taubenböck H, Geiß C & Wurm M (2019): *How we live: Observations from Space*. *Journal of Urban Design*, Issue 150, pp. 21-23.
3. Leichtle T (2019): *Wide eyed*. <https://www.geoconnexion.com/publications/geo-international/issue/march-april-2019-international-issue/article/wide-eyed>
4. Taubenböck H, Kraff NJ & Wurm M (2018): *The Blind Spot – Reducing knowledge gaps in urban poverty with Earth observation interacting with structured and unstructured geodata*. *Science Trends*. <https://sciencetrends.com/the-blind-spot-reducing-knowledge-gaps-in-urban-poverty-with-earth-observation-interacting-with-structured-and-unstructured-geodata/>
5. Mück M, Helmschrot J, Zimba H, Wallner M, Hipondoka M, Mufeti P, Meinhard M (2015): *Remote sensing applications for assessing water-related risks and its interdependencies with land cover change and biodiversity in southern Africa*. *GLP News*, November 2015, pp. 57-61.
6. von Sassen S & Taubenböck H (2015): *Urbane Fernerkundung*. *GISbusiness*, vol. 4, pp. 38-41.
7. Taubenböck H (2013): *Die Ruhe vor dem Sturm: Chinas Weg in ein urbanes Zeitalter*. *Standort*. Vol. 37, issue 1, pp. 56-61.
8. Taubenböck H & Wurm M (2013): *Die Frucht des Paradieses – Reflektionen über den Besuch einer Favela in Sao Paulo*. *Standort*. Vol. 37, issue 4. pp. 270-275.

Book Publications

1. Taubenböck H (2019): *Remote Sensing for the Analysis of Global Urbanization*. *DLR-Research Report 2019-10*. Habilitation Thesis, University Würzburg, 600 p., ISSN 1434-8454.
2. Taubenböck H, Wurm M, Esch T & Dech S (Hrsg.) (2015): *Globale Urbanisierung – Perspektive aus dem All*. Berlin Heidelberg, *SpringerSpektrum*. S. 297.

Guest Editors

1. Taubenböck H & Geiß C (2017): *Geospatial data for multiscale mapping and characterization of elements at risk*. Special Issue in *Natural Hazards*, vol 86, supplement 1. ISSN: 0921-030X (Print) 1573-0840 (Online). March 2017.
2. Taubenböck H & Strunz G (2013): *Remote Sensing contributing to mapping earthquake vulnerability and effects*. Special Issue in *Natural Hazards*: Volume 68, issue 1 ISSN: 0921-030X (Print) 1573-0840 (Online) August 2013.

PhD Thesis

1. Georg I (2018): *New spatial dimensions of global cityscapes: Concepts and spatial methods for delineation*. University Salzburg, Austria December 2018.
2. Liuzzi M (2018): *Integration of Field Surveys and Remote Sensing Techniques for Seismic Vulnerability Assessment: Methods and Applications to the Val d'Agri Area (Southern Italy)*. University Basilicata, February 2018.
3. Shi L (2017): *Analysis on the spatial pattern of Chinese urban lands and its development potential*. Institute of Remote Sensing and Digital Earth, Beijing. December 2017.

4. Wei C (2017): *Urban growth analysis at multiple spatial scales*. University Salzburg. June 2017.
5. Geiß C (2014): *Seismic vulnerability assessment of built environments with remote sensing*. Humboldt-Universität Berlin. December 2014.
6. Wurm M (2013): *Verknüpfung von Fernerkundungsdaten und Survey-Daten (SOEP und BASE-II) in städtischen Räumen für sozialwissenschaftliche Analysen*. Graz University of Technology. April 2013.

Book contributions

2018

1. Wurm M (2018). *Global Urbanization – Perspective from Space*. In; *Satellite-based Earth Observation. Trends and Challenges for Economy and Society*. Springer, pp. 107-117.
2. Müller I, Hipondoka M, Winkler K, Geßner U, Martinis S & Taubenböck H (2018): *Monitoring flood and drought events – earth observation for multi-scale assessment of water-related hazards and exposed elements*. In: *Climate change and adaptive land management in southern Africa assessments, changes, challenges, and solutions* (ed. by Revermann R, et al.), pp. 136-143, Biodiversity & Ecology, 6, Klaus Hess Publishers, Göttingen & Windhoek.
3. Taubenböck H, Müller I, Geiß C, Luetkemeier R (2018): *Risk Management – A conceptual foundation*. In: *Climate change and adaptive land management in southern Africa assessments, changes, challenges, and solutions* (ed. by Revermann R, et al.), pp. 132-135, Biodiversity & Ecology, 6, Klaus Hess Publishers, Göttingen & Windhoek.
4. De Clercq W, De Witt M, Himmelsbach T, Kenabatho P, Kralisch S, Liehr S, Ferreira Baptista L, Mogobe O, Mufeti P, Müller I, Nyambe I, Sichingabula H M, Teixeira-Pinto A, Teixeira Pires G J P, Wanke H, Helmschrot J (2018): *Water research in southern Africa: baseline data collection and innovative approaches to assess and mitigate climate change impacts*. In: *Climate change and adaptive land management in southern Africa assessments, changes, challenges, and solutions* (ed. by Revermann R, et al.), pp. 54-65, Biodiversity & Ecology, 6, Klaus Hess Publishers, Göttingen & Windhoek.

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5. Taubenböck H, Wurm M, Esch T & Dech S (2015): *Motivation zu diesem Buch*. SpringerSpektrum. S. 1-2.
6. Taubenböck H & Wurm M (2015): *Globale Urbanisierung – Markenzeichen des 21. Jahrhunderts*. SpringerSpektrum. S. 5-10.
7. Klotz M, Wurm M & Taubenböck H (2015): *Werkzeugkasten urbaner Fernerkundung*. SpringerSpektrum. S. 29-38.
8. Esch T, Felbier A, Taubenböck H, Wurm M & Dech S (2015): *Die globale Vielfalt urbaner Siedlungsmuster*. SpringerSpektrum. S. 41-48.
9. Taubenböck H (2015): *Ohne Limit? Das Flächenwachstum der Megacities*. SpringerSpektrum. S. 49-58.
10. Wiesner M & Taubenböck H (2015): *Kompaktheit versus Dispersion – Messung und Bewertung von Siedlungsmuster der Erde*. SpringerSpektrum. S. 59-70.
11. Wurm M & Taubenböck H (2015): *Hier spielt die Musik – Räumlich differenziertes Siedlungswachstum in deutschen Ballungsräumen*. SpringerSpektrum. S. 83-92.
12. Klotz M, Wurm M & Taubenböck H (2015): *Urbane Strukturen der Macht*. SpringerSpektrum. S. 93-105.
13. Taubenböck H & Kraff N J (2015): *Das globale Gesicht urbaner Armut? Siedlungsstrukturen in Slums*. SpringerSpektrum. S. 107-119.
14. Wurm M & Taubenböck H (2015): *Die Morphologie deutscher Großstädte: Was die Dichte über die Struktur der Städte verrät*. SpringerSpektrum. S.127-133.
15. Taubenböck H, Kehrer J & Wurm M (2015): *Zu Stein gewordene Philosophien – Die Morphologie geplanter Wohnviertel*. SpringerSpektrum. S. 135-147.



16. Taubenböck H & Wurm M (2015): *Ich weiß, dass ich nichts weiß – Bevölkerungsschätzung in einer Megacity*. SpringerSpektrum. S. 171-178.
17. Wurm M, Göbel J, Taubenböck H & Wagner G G (2015): *Am Ende der Kernstadt – Vom Versuch des Objektiven durch das Subjektive*. SpringerSpektrum. S. 179-189.
18. Erbertseder T, Taubenböck H & Meyer-Arnek J (2015): *Dicke Luft – Stadtregionen als globale Zentren der Luftverschmutzung*. SpringerSpektrum. S. 191-203.
19. Geiß C, Aravena-Pelizari P & Taubenböck H (2015): *Stadt in Gefahr – Erdbeobachtung zur Abschätzung der Folgen von Naturgefahren*. SpringerSpektrum. S. 217-223.
20. Taubenböck H (2015): *Die Ruhe vor dem Sturm – Chinas Weg in ein urbanes Zeitalter*. SpringerSpektrum. S. 235-239.
21. Taubenböck H & Wurm M (2015): *Die Frucht des Paradieses – Reflektionen über den Besuch einer Favela in Sao Paulo*. SpringerSpektrum. S. 241-247.
22. Taubenböck H & Geile W (2015): *Die Morphologie des amerikanischen Traums – Ein Ausflug in die Vorstadt*. SpringerSpektrum. S. 253-257.
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Conferences

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4. Taubenböck H, Dahle F, Geiß C & Wurm M (2019): *Europe's socio-economic disparities reflected in settlement patterns derived from satellite data*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Vannes, France.
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6. Qui C, Schmitt M, Taubenböck H & Zhu XX (2019): *Mapping human settlements with Sentinel-2 imagery and deep neural networks*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Vannes, France.
7. Friesen J, Lestakova M, Kaltenmorgen J, Nahaganeshan S, Pelz PF, Taubenböck H & Wurm M (2019): *Size distributions for morphological slums in Asia and South America*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Vannes, France.
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9. Taubenböck H, Murawski M & Wurm M (2018): *Large housing estates – Analyzing morphologic similarities and differences of a specific town planning concept*. Proceedings of the Real CORP 2018, pp. 275-284.
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12. Leichtle T, Martin K & Taubenböck H (2018): *On the Capability of Optical Remote Sensing Imagery with Various Spatial Resolutions on Impervious Surface Estimation*. EARSeL Workshop Bochum 24.-26.09.2018.
13. Weigand M, Staab J, Wurm M, Dech S & Taubenböck H (2018): *Big Earth Data for Large Scale Mapping of Health Relevant Environmental Factors in Germany*. EARSeL Workshop Bochum 24.-26.09.2018.
14. Wurm M, Weigand M, Goebel J, Wagner GGW & Taubenböck H (2018): *Perception of the city – The spatial urban structure and its interrelation with the subjective perception of citizens*. EARSeL Workshop Bochum 24.-26.09.2018.



15. Geiß C (2018): *From single-hazard to multi-hazard risk assessment including the analysis of dynamic exposure and vulnerability aimed at the modelling of cascading effects*. Natural Hazards and Risks in a Changing World, University of Potsdam, 4-5 October 2018.
16. Huang R, Taubenböck H & Zhu XX (2018): *Towards Urban Settlement Type Mapping With Geotagged Tweets*. EARSeL Workshop Bochum 24.-26.09.2018.
17. Friesen J, Taubenböck H, Wurm M & Pelz P (2018): *Size distributions of slums across the globe using different data and classification methods*. EARSeL Workshop Bochum 24.-26.09.2018.
18. Taubenböck H, Esch T, Marconcini M, Üreyen S, Wiegand M & Dech S (2018): *Assessing the ability to describe intra-urban variations of settlement structure based on the experimental GUF-Density*. EARSeL Workshop Bochum 24.-26.09.2018.
19. Meck M, Raschu L, Friesen J, Wurm M, Taubenböck H, Altherr L & Pelz PF (2018): *Designing a water supply network for slums in Rio de Janeiro using Mixed-Integer Programming*. International Conference on Operations Research, Brussels, Belgium, 12.-14 September, 2018.
20. Huang R, Taubenböck H, Mou L & Zhu XX (2018): *Classification of settlement types from tweets using LDA and LSTM*, IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2018, Valencia, Spain.
21. Selvakumaran S, Plank S, Rossi C, Geiß C (2018): *Using InSAR stacking techniques to predict bridge collapse due to scour*. IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2018, Valencia, Spain.
22. Willkomm M, Jäger S, Aravena Pelizari P, Müller I, Meiers T, Runde D, Gärtner D, Wimmer M (2018): *Smart Data Katastrophenmanagement – Möglichkeiten einer Informationsplattform für die Einsatzleitung am Beispiel Hochwasser*. Gewässerschutz-Wasser-Abwasser, 247, 22/1-22/15. Gesellschaft zur Förderung der Siedlungswasserwirtschaft RWTH Aachen e.V.. 51. Essener Tagung für Wasserwirtschaft, Essen.

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24. Wurm M, Wiegand M, Schmitt A, Geiß C & Taubenböck H (2017): *Exploitation of textural and morphological image features in Sentinel-2A data for slum mapping*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Dubai, VAE.
25. Taubenböck H, Bauer P, Geiß C & Wurm M (2017): *Mega-regions in China – A spatial analysis of settlement pattern using Earth observation data*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Dubai, VAE.
26. Klotz M, Wurm M, Zhu X & Taubenböck H (2017): *Digital deserts on the ground and from space – An experimental spatial analysis combining social network and earth observation data in megacity Mumbai*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Dubai, VAE.
27. Leichtle T, Geiß C, Wurm M, Lakes T & Taubenböck H (2017): *Evaluation of clustering algorithms for unsupervised change detection in VHR remote sensing imagery*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Dubai, VAE.
28. Mück M, Klotz M & Taubenböck H (2017): *Validation of the DLR Global Urban Footprint in rural areas: A case study for Burkina Faso*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Dubai, VAE.
29. Kuffer M, Orina F, Sliuzas R & Taubenböck H (2017): *Spatial patterns of slums – Comparing African and Asian cities*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Dubai, VAE.
30. Tuia D, Moser G, Wurm M & Taubenböck H (2017): *Land use modeling in North Rhine-Westphalia with interaction and scaling laws*. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Dubai, VAE.

2016

31. Siedentop, S., Krehl, A., Taubenböck, H. & Wurm, M. (2016): *Measuring urban Sprawl: from zonal to development based metrics?* Extended Abstract; 2nd World Conference of the Society for Urban Ecology (SURE), 8-10. July in Shanghai
32. Krehl A, Siedentop S, Taubenböck H & Wurm M (2016): *Consolidated assessment of urban spatial structure – how far can it be stretched? Evidence from German city regions.* Extended Abstract. European Regional Science Association (ERSA) Conference, Vienna, 23.-26.08.2016.

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33. Wurm M, Goebel J, Taubenböck H & Wagner GG (2015): *At the edge of the city center – Discrimination of the physical city center by subjective perception and satellite data.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Lausanne, Switzerland.
34. Poncet Montanges A, Tuia D, Taubenböck H, Wurm M & Moser G (2015): *Classification of urban structural types with multisource data and structured models.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Lausanne, Switzerland.
35. Hofmann P, Taubenböck H & Werthmann C (2015): *Monitoring and modelling of informal settlements – recent developments and challenges.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Lausanne, Switzerland.
36. Schreyer, J./ Geiß, C./ Lakes, T. (2015): *TanDEM-X & UAV data for modeling 3D vegetation information in urban areas.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Lausanne, Switzerland.

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37. Wiesner M & Taubenböck H (2014): *Mega-regions: Mapping urban landscapes of a different magnitude based on EO-data.* CORP, Wien, 2014.
38. Krehl A, Siedentop S, Taubenböck H & Wurm M (2014): *Agglomerations economies shaping the spatial structure in German city regions.* Association of European Schools of Planning Conference (AESOP), 2014.
39. Lesko L, Wurm M, Wiesner M, Mond, J-P & Taubenböck H (2014): *Vienna, Berlin, Warsaw – Comparison of spatial urban development patterns using remote sensing data and landscape metrics.* EARSeL eProceedings. ISBN 978-83-63245-65-8. pp. 9-14.
40. Felbier A, Esch T, Heldens W, Marconcini M, Zeidler J, Roth A, Klotz M, Wurm M & Taubenböck H (2014): *The global urban footprint –processing status and cross comparison to existing human settlement products.* IGARRS. Pp. 4816-4819.

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41. Taubenböck H, Klotz M, Wurm M, Schmieder J, Wagner B & Esch T (2013): *Delimiting Central Business Districts – A physical approach using remote sensing.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Sao Paulo, Brazil; p. 4.
42. Wurm M, Taubenböck H, Esch T, Fina S & Siedentop S (2013): *The changing face of urban growth.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Sao Paulo, Brazil; p. 4.
43. Esch T, Felbier A, Heldens W, Marconcini M, Roth A & Taubenböck H (2013): *Spatially detailed mapping of settlement patterns using SAR data of the TanDEM-X mission.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Sao Paulo, Brazil; p. 4.
44. Esch T, Taubenböck H, Chrysoulakis N, Sebenem Düzgün H, Tal A, Feigenwinter C & Parlow E (2013): *Exploiting Earth observation in sustainable urban planning and management – the GEOURBAN project.* Proc. IEEE-CPS Joint Urban Remote Sensing Event (JURSE), Sao Paulo, Brazil; p. 4.
45. Hummel H, Post J, Strunz G, Ludwig R, Hoffmann A, Benabdallah S (2013): *Setting up the water balance simulation model WaSiM for the assessment of climate change impacts in Chiba basin, Tunisia.* International Conference on Modeling, Simulation and Applied Optimization (ICMSAQ 2013), 28-30 Apr 2013, Hammamet, Tunisia. ISBN 978-1-4673-5814-9.



46. Taubenböck H, Esch T, Wurm M & Heldens W (2013): *Application of RapidEye data for the derivation of urban geo-information products – an overview of first results*. RapidEye Workshop, Neustrelitz.
47. Ottinger M, Liu G, Taubenböck H & Künzer C (2013): *Monitoring dynamischer Landschaftsveränderungen im Gelbflussdelta mit multi-sensoralen Fernerkundungsdaten*. In: Geoinformationen für die Küstenzone, 4, pp. 285-292. Sokrates & Freunde GmbH. 4. Symposium Geoinformationen für die Küstenzone und 9. Workshop zur Nutzung der Fernerkundung, 24.-26. Okt. 2012, Hamburg, Deutschland. ISBN 978-3-9814234-0-2.
48. Taubenböck H & Esch T (2013): *Fernerkundung zur Kartierung von Küstenstädten*. In: Geoinformation für die Küstenzone, 4, pp. 223-232. Sokrates & Freunde GmbH. 4. Hamburger Symposium zur Küstenzone & 9. Workshop zur Nutzung der Fernerkundung, Hamburg. ISBN 978-3-9814234-0-2.

Key Notes / Invited Presentations

1. Taubenböck H (2019): *Urban Science with a view from space: Dynamics, dimensions and forms of global urbanization*. LSEcities, London, 12.09.2019.
2. Taubenböck H (2019): *Understanding the transformation of urban landscapes through satellite data*. Martin Centre, Cambridge, UK, 02.09.2019.
3. Taubenböck H (2019): *Big Earth Data for reducing knowledge gaps on urban poverty*. ifo-Institut Lunchtime Seminar, München, 24.07.2019.
4. Taubenböck H (2019): *Globaler Wandel im Zeitalter des Anthropozäns – Perspektiven aus dem All*. InnovationCity Roll Out Abschlussveranstaltung, Herne, 01.07.2019.
5. Taubenböck H (2019): *Das Jahrhundert der Städte – Perspektiven aus dem All*. Urania Berlin, 29.04.2019.
6. Taubenböck H & Safi K (2019): *Space-borne technologies to monitor the transformation of the world and its capabilities for macroecology*. Keynote at the macroecology 2019 conference, Würzburg, 11.03.2019.
7. Wurm M (2019): *Satellitendaten und neue Perspektiven für die Informationsgewinnung*. Bund-Länder Tagung der Statistischen Ämter, Stuttgart, 07.03.2019.
8. Taubenböck H (2019): *Distanz schafft Klarheit – ein kritischer fernerkundlicher Blick auf die Urbanisierung unseres Planeten*. Keynote beim Sächsischen GIS-Forum, 30.01.2019.
9. Taubenböck H (2018): *Dynamik und Formen weltweiter Urbanisierung*. Oskar-von-Miller Forum, München, 06.12. 2018.
10. Wurm M (2018): *New possibilities of sensed data in urban areas*. KongeoS, München, 30.11.
11. Taubenböck H (2018): *Fernerkundung aus dem All – Andere Zahlen für bessere Entscheidungen?* Wiesbaden. 22.11. 2018.
12. Taubenböck H (2018): *Das Jahrhundert der Städte – Perspektiven aus dem All*. Ringvorlesung Universität Köln. 23.10.2018.
13. Leichtle T (2018): *COPERNICUS in Luftbildqualität - „Contributing Missions“ helfen bei der Stadtplanung*. Intergeo, 18.10.2018.
14. Taubenböck H (2018): *The future will be urban – A responsibility for urban remote sensing*. Keynote at the EARSeL Urban Remote Sensing Special Interest Group, Bochum, Germany, 26.09.2018.
15. Taubenböck H (2018): *Approaching poverty from outer space. Capabilities, ideas and challenges*. Keynote at the Workshop 'Examining Dynamics of Deprived Settlements in Different Geographic Contexts; Standards and Transferability. IAS, Amsterdam, 02.07.2018.
16. Wurm M (2018): *New possibilities of sensed data in urban areas*. Keynote at ITC Twente, Enschede, 14.06.2018.
17. Taubenböck H (2018): *Fernerkundliche Nachweise der globalen Urbanisierung*. Keynote at IÖR Jahrestagung, Dresden, 06.06.2018.
18. Taubenböck H (2018): *Urbane Armut - Endstation oder Chance? Eine Perspektive aus dem All*. Katholische Hochschulgemeinde. München, 07.05.2018.



19. Taubenböck H (2018): *Expanding cities – diminishing space – A perspective from outer space*. Keynote at Real CORP, Vienna, Austria, 04.04.2018.
20. Taubenböck H (2018): *Armut in der Stadt – Perspektiven aus dem All*. S2DES Community-Meeting. Leipzig, 15.03.2018.
21. Geiß C (2018): *Monitoring of global urbanization processes and earthquake risk from space*. The 50th Anniversary Lecture Series, Martin Center, University Cambridge, 24.01.2018.
22. Taubenböck H (2018): *Urbanization is transforming our world – Perspectives from space*. Geographisches Kolloquium der Universität Kiel, 15.01.2018.
23. Taubenböck H (2017): *The Morphology of Slums – Analyzing Slums across the Globe Using Earth Observation Data*. Conference ‚Dangerous Landscapes‘, Hannover, 27.11.2017.
24. Taubenböck H (2017): *Die globale Transformation der Städte – Was erwartet uns?* Verband Beratender Ingenieure, VBI Landesverband Saarland. Vortrag und Podiumsdiskussion mit Umweltminister und Leiter der Obersten Landesbaubehörde. 02.11.2017.
25. Geiß C (2017): *Naturgefahrenrisiko im Zeitalter globaler Urbanisierung*. Symposium „Trends und Herausforderungen satellitengestützter Erdbeobachtung für Wirtschaft und Gesellschaft“ Graz, Austria. 01.06.2017.
26. Taubenböck H (2017): *Big Data – Key for future Geoinformation services*. Keynote at the 2nd Geoinformation Symposium, Berlin, 22.06.2017.
27. Taubenböck H (2017): *Urbane Armut – Globale Wissenslücken durch Big Earth Data schließen*. DLR Forschungstag. Köln. 26.04.2017.
28. Taubenböck H (2017): *Die globale Transformation der Städte – Was erwartet uns?* Arbeitstagung der Prüflingenieur, Baden-Baden. 23.06.2017.
29. Wurm M (2016): *Cities from Space – Analysis and monitoring of physical urbanization processes*. Keynote at the Symposium on Peaceful Use of Space Technologies and Applications for the Overall Social and Economic Development in Muskat, Oman.
30. Geiß C (2016): *Erdbeobachtung zur Bewertung von Naturgefahrenrisiken – Ausgewählte Anwendungen*; Fachaustausch Geoinformation, Heidelberg. 24.11.2016.
31. Taubenböck H (2016): *Die globale Transformation der Städte – Monitoring mit Methoden der Fernerkundung*; Deutsche Gesellschaft für Kartographie und der AG Geomatik im Geographischen Institut der Ruhr-Universität Bochum.
32. Geiß C (2016): *Earth observation techniques for seismic vulnerability assessment of built environments*; Invited Presentation at the Workshop „Methods and innovative techniques for seismic risk mitigation“; Potenza, Italy.
33. Taubenböck H (2016): *„Globale Urbanisierung – Perspektive aus dem All“*; Presentation at the „Fachgruppe GIS & Vermessung“ of VBI, Berlin, 13.05.2016
34. Taubenböck H (2016): *Cities from Space: Monitoring the Global Process of Urbanization*. Invited Presentation and Panel discussion. SPADE Conference, Berlin.
35. Taubenböck H (2016): *„Die globale Transformation der Städte – Monitoring mit Methoden der Fernerkundung“*; Keynote and Panel Discussion at the VBI Bundeskongress in Leipzig.
36. Taubenböck H (2015): *Population assessment using Earth observation data*. Vienna Institute of Demography, Vienna, Austria.
37. Taubenböck H (2015): *Fernerkundung zur Analyse von Landschaftsveränderungen*. Workshop der Koreanologie Vienna, Austria.
38. Taubenböck H (2015): *Globale Urbanisierung – Perspektiven aus dem Weltall*. Münchner Wissenschaftstage. November, 2015.
39. Taubenböck H (2015): *Cities from Space: Monitoring the Global Process of Urbanization*. TechNet Europe Conference, Berlin.
40. Taubenböck H (2014): *„Urban Remote Sensing at DLR“*; Presentation at *Technical Consultative Group Meeting „Global Urban Growth Data Initiative“* on invitation by the World Bank; ESA in Frascati, Italy.



41. Taubenböck H (2014): *Erdbeobachtung zur Abschätzung von Vulnerabilität*. Workshop zu Klimavulnerabilität der Universität Hamburg.
 42. Wurm M (2014): *Fernerkundungsdaten für kleinräumige sozialwissenschaftliche Analysen*. Dresdener Flächennutzungssymposium.
 43. Taubenböck H (2014): *The rise of cities: Monitoring urbanization from space with a special focus on Turkey*. ILA Berlin – Turkish-German Round Table. Berlin.
 44. Taubenböck H (2013): *Does distance bring clarity? Remotely sensing cities*. Presentation at EPFL in Lausanne, Switzerland.
 45. Taubenböck H (2013): *„Remote Sensing“ – Satellitengestützte Methoden für das Katastrophenmanagement*. Keynote at the Workshop on re-insurance organized by GuyCarpenter in Köln/Bonn.
 46. Taubenböck H (2013): *“Quo Vadis“ Urban Remote Sensing?* Keynote at the Joint Urban Remote Sensing Event (JURSE), Sao Paulo, Brazil.
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