Deutsches Zentrum
DLR für Luft- und Raumfahrt

Publications of Team Natural Hazards
(01.01.2013 – 01.01.2021)

Peer-reviewed journal publications

Knopp, L., Wieland, M., Rättich, M., Martinis, S., (2020): A Deep Learning Approach for Burned Area Segmentation with Sentinel-2 Data. Remote Sensing, 12 (15), 1-23.

Plank, S., Massimetti, Soldati, A., Hess, U., Nolde, M., Martinis, S., Dingwell, D., (2020): Lava discharge rate estimates from joint analysis of multi-sensor infrared satellite imagery coupled with laboratory measurements – the 2018 lower East Rift Zone eruption at Kīlauea Volcano, Hawai'I, International Journal of Remote Sensing, 22293.

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Plank, S., Marcese, F., Genzano, N., Nolde, M., Martinis, S., (2020): The short life of the volcanic island New Late'iki (Tonga) analyzed by multi-sensor remote sensing data, Scientific Reports

Wieland, M., Martinis, S., (2020): Large scale surface water change observed by Sentinel-2 during the 2018 drought in German. International Journal of Remote Sensing, 41 (12), 4742-4756.

Nolde, M., Plank, S., Riedlinger, T., (2020): An adaptive and extensible system for satellite-based, large scale burnt area monitoring in near-realtime. Remote Sensing, 12 (13), 1-20.

Selvakumaran, S., Rossi, C., Marinoni, A., Webb, G., Bennets, J., Barton, E., Plank, S., Middleton, C., (2020): Combined InSAR and terrestrial structural monitoring of bridges. IEEE Transactions on Geoscience and Remote Sensing, 58 (10), 7141-7153.

Plank, S., Marchese, F., Filizzola, C., Pergola, N., Neri, M., Nolde, M., Martinis, S., (2019): The July / August 2019 lava flows at the Sciara del Fuoco, Stromboli - Analysis from multi-sensor infrared satellite imagery. Remote Sensing, 11 (2879), 1-23.

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Bettinger, M., Martinis, S., Plank, S., (2019): An automatic process chain for detecting burn scars using Sentinel-2 data. South-Eastern European Journal of Earth Observation and Geomatics, 1-4, Aristotle University of Thessaloniki, Greece.

Jäggi, A., Weigelt, M., Flechtner, F., Güntner, A., Mayer-Guerr, T., Martinis, S., Bruinsma, S., Flury, J., Bourgogne, S., Steffen, H., Meyer, U., Jean, Y., Susnik, A., Grahsl, A., Arnold, D., Cann-Guthauser, K., Dach, R., Li, Z., Chen, Q., van Dam, T., Gruber, C., Porobat, L. Gouweleeuw, B., Kvas, A., Klinger, B., Lemoine, J.-M. Biancale, R., Zwenzner, H., Bandikova, T., Shabanloui, A., (2019): European Gravity Service for Improved Emergency Management (EGSIEM) - from concept to implementation. Geophysical Journal International (218), 1572-1590.

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Blocksdorf, A., (2019): Development of an automatic process chain for estimating post-fire soil erosion susceptibility. Master thesis, Katholische Universität Eichstätt-Ingolstadt.

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