
Publications

Peer-reviewed journal articles and book chapters

- [1] Gruber, F.E., Baruck, J., Geitner, C. (2017): Algorithms vs. surveyors: a comparison of automated landform delineations and surveyed topographic positions from soil mapping in an Alpine environment. *Geoderma* 308, 9-25.
- [2] Geitner, C., Baruck, J., Freppaz, M., Godone, D., Grashey-Jansen, S., Gruber, F.E., Heinrich, K., Papritz, A., Simon, A., Stanchi, S., Traidl, R., von Albertini, N., Vrscaj, B. (2017). Soil and land use in the Alps – Challenges and examples of soil survey and soil data use to support sustainable development. In: Pereira, P., Brevik, E.C., Munoz-Rojas, M., Miller, B. (Eds.), *Soil mapping and process modelling for sustainable land use management*. Elsevier, Amsterdam. 221-292
- [3] Baruck, J., Nestroy, O., Sartori, G., Baize, D., Traidl, R., Vrsaj, B., Bräm, E., Gruber, F.E., Heinrich, K., Geitner, C. (2016): Soil classification and mapping in the Alps: The current state and future challenges. *Geoderma* 264, Part B, 312–331.
- [4] Zieher, T., Gruber, F.E.; Rutzinger, M.; Meißl, G.; Geitner, C.; Perzl, F. (2016): Data requirements for the assessment of shallow landslide susceptibility using logistic regression. In: *Proceedings of the 12th International Symposium on Landslides - Landslides and Engineered Slopes. Experience, Theory and Practice*. Napoli, Italy. CRC Press, S. 2139-2146.
- [5] Gruber, F.E., Mergili, M. (2013): Regional-scale analysis of high-mountain multi-hazard and risk indicators in the Pamir (Tajikistan) with GRASS GIS. *Natural Hazards and Earth System Sciences* 13: 2779-2796.
- [6] Schneider, J.F., Gruber, F.E., Mergili, M. (2013): Impact of large landslides, mitigation measures. In: Genevois, R., Prestininzi, A. (eds.): *International Conference on Vajont - 1963-2013 - Thoughts and analyses after 50 years since the catastrophic landslide*. *Proceedings of the International Conference Vajont 1963-2013*, Padua, Italy, October 8-10, 2013. *Italian Journal of Engineering Geology and Environment - Book*: 73-84.
- [7] Schneider, J.F., Gruber, F.E., Mergili, M. (2013): Recent Cases and Geomorphic Evidence of Landslide-Dammed Lakes and Related Hazards in the Mountains of Central Asia. In: Margottini, C., Canuti, P., Sassa, K. (eds.): *Landslide Science and Practice: Volume 6: Risk Assessment, Management and Mitigation (Proceedings of the 2nd World Landslide Forum, FAO Headquarters Rome, Italy, October 3-9, 2011)*: 57-64. Springer, Heidelberg, Berlin, New York

Selected conference abstracts and presentations

- [8] Gruber, F.E., Baruck, J. und C. Geitner (2016): Joint analysis of parent material and topography to support soil survey – a case study from South Tyrol. *Jahrestagung der Österreichischen Forschungsgruppe für Geomorphologie und Umweltwandel und der Schweizerischen Gesellschaft für Geomorphologie* 2016, Innsbruck (23.09.2016).
- [9] Gruber F.E., Baruck, J., Simon, A. und C. Geitner (2015): Relieffklassifizierung für die Erstellung von Bodenkarten anhand von geomorphons (GRASS GIS).– Posterausstellung im Rahmen der Jahrestagung der Deutschen Bodenkundlichen Gesellschaft, München 2015, AG Digital Soil Mapping (09.09.2015).

- [10] Gruber, F.E., Zieher, T., Rutzinger, M. und C. Geitner (2015): Geomorphons and structure metrics for the characterization of geomorphological landscape regions in Austria. EGU General Assembly 2015 (EGU 2015), Wien (16.04.2015).
- [11] Gruber, F.E., Baruck, J., Rutzinger, M. and C. Geitner (2014): Landform segmentation for digital soil mapping. – EGU General Assembly 2014 (28.04.-02.05.2014, Vienna (Austria)), Geophysical Research Abstracts Vol. 16, EGU2014-5644.