

GAMMA L-band SAR

GAMMA L-band SAR / TDBP references available on GAMMA homepage

A number of conference/journal papers are available that document a specific element or functionality of the GAMMA L-band SAR (incl. previous developments) and the TDBP SAR image focusing approach. Some of these documents are made available as pdf for download at <https://www.gamma-rs.ch/gamma/documents.html>.

[Frey, O., Magnard, C., Rüegg, M., and Meier, E.: "Focusing of airborne synthetic aperture radar data from highly nonlinear flight tracks." IEEE Trans. Geosci. Remote Sens., vol. 47, no. 6, pp. 1844–1858, June 2009.](#)
[Online]. Available: <https://ieeexplore.ieee.org/document/4812049>

[Frey, O., Werner, C. L., Wegmuller, U., Wiesmann, A., Henke, D., and Magnard, C.: "A car-borne SAR and InSAR experiment," in Proc. IEEE Int. Geosci. Remote Sens. Symp., 2013, pp. 93–96.](#)
[Online]. Available: <https://ieeexplore.ieee.org/document/6721100>

[Frey, O., Werner, C. L., and Wegmuller, U.: "GPU-based parallelized time-domain back-projection processing for agile SAR platforms," in Proc. IEEE Int. Geosci. Remote Sens. Symp., July 2014, pp. 1132–1135.](#)
[Online]. Available: <https://ieeexplore.ieee.org/document/6946629>

[Frey, O., Werner, C. L., Hajnsek, I., and Coscione, R.: "A car-borne SAR system for interferometric measurements: development status and system enhancements," in Proc. IEEE Int. Geosci. Remote Sens. Symp., 2018, pp. 6508–6511.](#)
[Online]. Available: <https://ieeexplore.ieee.org/document/8518840>

[Frey, O., Meier, E., and Nüesch, D.: "Processing SAR data of rugged terrain by time-domain back-projection," in SPIE Vol. 5980: SAR Image Analysis, Modeling, and Techniques X, 2005.](#)
[Online]. Available: <https://doi.org/10.1117/12.627647>

[Frey, O., Werner, C. L., Coscione, R.: "Car-borne and UAV-borne mobile mapping of surface displacements with a compact repeat-pass interferometric SAR system at L-band," Proc. IEEE Int. Geosci. Remote Sens. Symp., 2019, pp. 274-277.](#)