

References

- [Amenta and Bern, 1999] Amenta, N. and Bern, M. (1999). Surface Reconstruction by Voronoi Filtering. *Discrete Comput Geom*, 22(4):481–504.
- [Amenta et al., 2002] Amenta, N., Choi, S., Dey, T. K., and Leekha, N. (2002). A simple algorithm for homeomorphic surface reconstruction. *Int. J. Comput. Geom. Appl.*, 12(01n02):125–141. Publisher: World Scientific Publishing Co.
- [Balakrishnan et al., 2012] Balakrishnan, S., Rinaldo, A., Sheehy, D., Singh, A., and Wasserman, L. (2012). Minimax rates for homology inference. In *Proceedings of the Fifteenth International Conference on Artificial Intelligence and Statistics*, pages 64–72. PMLR. ISSN: 1938-7228.
- [Boissonnat et al., 2018] Boissonnat, J.-D., Chazal, F., and Yvinec, M. (2018). *Geometric and Topological Inference*. Cambridge University Press, 1 edition.
- [Bubenik and Kim, 2007] Bubenik, P. and Kim, P. T. (2007). A statistical approach to persistent homology. *Homology, Homotopy and Applications*, 9(2):337–362.
- [Bukkuri et al., 2021] Bukkuri, A., Andor, N., and Darcy, I. K. (2021). Applications of Topological Data Analysis in Oncology. *Front. Artif. Intell.*, 4:659037.
- [Chazal et al., 2009] Chazal, F., Cohen-Steiner, D., and Lieutier, A. (2009). A Sampling Theory for Compact Sets in Euclidean Space. *Discrete Comput Geom*, 41(3):461–479.
- [Chazal et al., 2015] Chazal, F., Glisse, M., Labruère, C., and Michel, B. (2015). Convergence Rates for Persistence Diagram Estimation in Topological Data Analysis. *Journal of Machine Learning Research*, 16(110):3603–3635.
- [Chazal and Lieutier, 2005] Chazal, F. and Lieutier, A. (2005). Weak feature size and persistent homology: computing homology of solids in \mathbb{R}^n from noisy data samples. In *Proceedings of the twenty-first annual symposium on Computational geometry - SCG '05*, page 255, Pisa, Italy. ACM Press.
- [Chazal and Lieutier, 2008] Chazal, F. and Lieutier, A. (2008). Smooth manifold reconstruction from noisy and non-uniform approximation with guarantees. *Computational Geometry*, 40(2):156–170.
- [Chazal and Michel, 2021] Chazal, F. and Michel, B. (2021). An introduction to Topological Data Analysis: fundamental and practical aspects for data scientists. arXiv:1710.04019 [cs, math, stat].
- [Cuevas et al., 2012] Cuevas, A., Fraiman, R., and Pateiro-López, B. (2012). On Statistical Properties of Sets Fulfilling Rolling-Type Conditions. *Advances in Applied Probability*, 44(2):311–329. Publisher: Cambridge University Press.

- [Cuevas and Rodríguez-Casal, 2004] Cuevas, A. and Rodríguez-Casal, A. (2004). On Boundary Estimation. *Advances in Applied Probability*, 36(2):340–354.
- [Devroye and Wise, 1980] Devroye, L. and Wise, G. L. (1980). Detection of Abnormal Behavior Via Nonparametric Estimation of the Support. *SIAM J. Appl. Math.*, 38(3):480–488.
- [Dey and Wang, 2022] Dey, T. K. and Wang, Y. (2022). *Computational Topology for Data Analysis*. Cambridge University Press, 1 edition.
- [Dłotko et al., 2019] Dłotko, P., Qiu, W., and Rudkin, S. (2019). Cyclicity, Periodicity and the Topology of Time Series. arXiv:1905.12118 [cs, math].
- [Edelsbrunner et al., 2002] Edelsbrunner, H., Letscher, D., and Zomorodian, A. (2002). Topological Persistence and Simplification. *Discrete & Computational Geometry*, 28:511 – 533.
- [Joshi and Joshi, 2019] Joshi, M. and Joshi, D. (2019). A survey of Topological Data Analysis Methods for Big Data in Healthcare Intelligence. *International Journal of Applied Engineering Research*, 14(2):5.
- [Niyogi et al., 2008] Niyogi, P., Smale, S., and Weinberger, S. (2008). Finding the Homology of Submanifolds with High Confidence from Random Samples. *Discrete Comput Geom*, 39(1-3):419–441.
- [Otter et al., 2017] Otter, N., Porter, M. A., Tillmann, U., Grindrod, P., and Harrington, H. A. (2017). A roadmap for the computation of persistent homology. *EPJ Data Sci.*, 6(1):1–38. Number: 1 Publisher: SpringerOpen.
- [Rabadan and Blumberg, 2019] Rabadan, R. and Blumberg, A. J. (2019). *Topological Data Analysis for Genomics and Evolution: Topology in Biology*. Cambridge University Press, Cambridge.
- [Salch et al., 2021] Salch, A., Regalski, A., Abdallah, H., Suryadevara, R., Catanzaro, M. J., and Diwadkar, V. A. (2021). From mathematics to medicine: A practical primer on topological data analysis (TDA) and the development of related analytic tools for the functional discovery of latent structure in fMRI data. *PLoS ONE*, 16(8):e0255859.
- [Smith et al., 2021] Smith, A. D., Dłotko, P., and Zavala, V. M. (2021). Topological data analysis: Concepts, computation, and applications in chemical engineering. *Computers & Chemical Engineering*, 146:107202.
- [Virk, 2022] Virk, Z. (2022). *Introduction to Persistent Homology*. Založba UL FRI, Ljubljana.
- [Wasserman, 2017] Wasserman, L. (2017). Topological Data Analysis. page 32.
- [Zomorodian and Carlsson, 2005] Zomorodian, A. and Carlsson, G. (2005). Computing Persistent Homology. *Discrete Comput Geom*, 33(2):249–274.