

REFERENCES

- [1] J. Hald, J. Hansen, F. Jensen, and F. Larsen, *Spherical Near Field Antenna Measurements*, J. Hansen, Ed. Peter Peregrinus, 1988.
- [2] R. Cornelius, D. Heberling, N. Koep, A. Behboodi, and R. Mathar, "Compressed sensing applied to spherical near-field to far-field transformation." Davos: Eur. Conf. Antennas Propag. (EuCAP), 2016.
- [3] D. Loschenbrand and C. Mecklenbrauker, "Fast antenna characterization via a sparse spherical multipole expansion." Aachen: 4th International Workshop on Compressed Sensing Theory and its Applications to Radar, Sonar and Remote, 2016.
- [4] B. Fuchs, L. Le Coq, S. Rondineau, and M. Migliore, "Fast antenna far field characterization via sparse spherical harmonic expansion," *IEEE Trans. Antennas Propag.*, vol. 65, no. 10, pp. 5503–5510, Oct. 2017.
- [5] B. Hofmann, O. Neitz, and T. F. Eibert, "On the minimum number of samples for sparse recovery in spherical antenna near-field measurements," *IEEE Trans. on Antennas and Propag.*, July 2019.
- [6] M. Elad, *Sparse and Redundant Representations - From Theory to Applications in Signal and Image Processing*. Springer, 2010.
- [7] E. van den Berg and M. P. Friedlander, "Probing the pareto frontier for basis pursuit solutions," *SIAM Journal on Scientific Computing*, vol. 31, no. 2, pp. 890–912, 2008. [Online]. Available: <https://epubs.siam.org/doi/10.1137/080714488>
- [8] —, "SPGL1: A solver for large-scale sparse reconstruction," June 2007.
- [9] D. L. Donoho and J. Tanner, "Precise undersampling theorems," *Proceedings of the IEEE*, vol. 98, no. 6, pp. 913–924, June 2010.
- [10] F. Saccardi, F. Rossi, L. Scialacqua, and L. J. Foged, "Truncation error mitigation in free-space automotive partial spherical near field measurements," in *2017 Antenna Measurement Techniques Association Symposium (AMTA)*, Oct 2017, pp. 1–6.
- [11] P. Hansen, "The l-curve and its use in the numerical treatment of inverse problems," in *Computational Inverse Problems in Electrocardiology*. WIT Press, 2000.
- [12] A. Cultrera and L. Callegaro, "A simple algorithm to find the l-curve corner in the regularization of inverse problems," *CoRR*, vol. abs/1608.04571, 2016. [Online]. Available: <http://arxiv.org/abs/1608.04571>
- [13] H. Kim and J. Rossignac, "Parabola-based discrete curvature estimation," in *15th Int. Conf. on Computer Graphics, Visualization and Computer Vision (WSCG)*, Jan. 2006.
- [14] G. Giordanengo, M. Righero, F. Vipiana, M. Sabbadini, and G. Vecchi, "Fast antenna testing with reduced near field sampling," *IEEE Trans. Antennas Propag.*, vol. 62, no. 5, pp. 2501–2513, May 2014.