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## LIST OF 10 SELECTED PUBLICATIONS

- 2024** A. Hauptmann, S. Mukherjee, C. B. Schönlieb, F. Sherry. Convergent regularization in inverse problems and linear plug-and-play denoisers. *Foundations of Computational Mathematics*, 1-34.
- 2023** S. Mukherjee, A. Hauptmann, O. Öktem, M. Pereyra, C. B. Schönlieb. Learned Reconstruction Methods With Convergence Guarantees: A survey of concepts and applications. *IEEE Signal Processing Magazine*, 40, 164–182.
- 2022** A. Arjas, E. J. Alles, E. Maneas, S. Arridge, A. E. Desjardins, M. J. Sillanpää, A. Hauptmann. Neural Network Kalman filtering for 3D object tracking from linear array ultrasound data. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 69, 1691–1702.
- 2022** M. Mozumder, A. Hauptmann, I. Nissilä, S. Arridge, T. Tarvainen. A model-based iterative learning approach for diffuse optical tomography. *IEEE Transactions on Medical Imaging*, 41, 1289–1299.
- 2021** W. Herzberg, D. Rowe, A. Hauptmann, and S. Hamilton. Graph Convolutional Networks for Model-Based Learning in Nonlinear Inverse Problems. *IEEE Transactions on Computational Imaging*, 7, 1341–1353.
- 2021** S. Lunz, A. Hauptmann, T. Tarvainen, C. B. Schönlieb, S. Arridge. On Learned Operator Correction in Inverse Problems. *SIAM Journal on Imaging Sciences*, 14(1), 92–127.
- 2021** A. Hauptmann, J. Adler, S. Arridge, O. Öktem. Multi-Scale Learned Iterative Reconstruction. *IEEE Transactions on Computational Imaging*, 6, 843–856.
- 2019** A. Hauptmann, S. Arridge, F. Lucka, V. Muthurangu, J. Steeden. Real-time cardiovascular MR with spatio-temporal artifact suppression using deep learning-proof of concept in congenital heart disease. *Magnetic Resonance in Medicine*, 81, 1143–1156. (Editor’s pick)
- 2018** S. Hamilton and A. Hauptmann. Deep D-bar: Real time Electrical Impedance Tomography Imaging with Deep Neural Networks. *IEEE Transactions on Medical Imaging*, 37(10), 2367–2377.
- 2018** A. Hauptmann, F. Lucka, M. Betcke, N. Huynh, B. Cox, P. Beard, S. Ourselin, and S. Arridge. Model based learning for accelerated, limited-view 3D photoacoustic tomography. *IEEE Transactions on Medical Imaging*, 37(6), 1382–1393.