Real-time tomographic reconstruction

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List of publications

Publications that are part of this dissertation:

- Real-time quasi-3D tomographic reconstruction. *JW Buurlage, H Kohr, WJ Palenstijn, KJ Batenburg*. Measurement Science and Technology 29 (6), 2018
- Bulk: A Modern C++ Interface for Bulk-Synchronous Parallel Programs. *JW Buurlage, T Bannink, RH Bisseling*. European Conference on Parallel Processing, 519–532, 2018
- A geometric partitioning method for distributed tomographic reconstruction. *JW Buurlage, RH Bisseling, KJ Batenburg*. Parallel Computing 81, 104–121, 2019
- Real-time reconstruction and visualisation towards dynamic feedback control during time-resolved tomography experiments at TOMCAT. *JW Buurlage, F Marone, DM Pelt, WJ Palenstijn, M Stampanoni, KJ Batenburg, CM Schlepütz*. Scientific Reports 9 (1), 1–11, 2019
- A projection-based partitioning method for distributed tomographic reconstruction. *JW Buurlage, WJ Palenstijn, RH Bisseling, KJ Batenburg*. Proceedings of the SIAM Conference on Parallel Processing for Scientific Computing, 58–68, 2020

Publications that are not part of this dissertation:

- Multigrid reconstruction in tomographic imaging. *D Marlevi, H Kohr, JW Buurlage, B Gao, KJ Batenburg, M Colarieti-Tosti*. IEEE Transactions on Radiation and Plasma Medical Sciences 4 (3), 300–310, 2019

- Real-time reconstruction of arbitrary slices for quantitative and in-situ three-dimensional characterization of nanoparticles. *H Vanrompay, JW Buurlage, DM Pelt, V Kumar, X Zhuo, LM Liz-Marzán, S Bals, KJ Batenburg*. Particle and Particle Systems Characterization (accepted). 2020