

Benchmarking for 3D Electron Microscopy.

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Abstract.

Algorithm benchmarking is an important step towards objective algorithm comparison and establishment of standardized image processing protocols in 3D Electron Microscopy. In this paper we introduce a new platform offering standard datasets, and allowing objective comparison of algorithm results. We exemplify its use for the task of particle picking from micrographs. However, the platform is general and is aimed at hosting benchmarks for very different tasks like detection of microscope aberrations, three-dimensional classification and alignment, etc.