

Resource Summary Report

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Berkeley Advanced Reconstruction Toolbox

RRID:SCR_016168

Type: Tool

Proper Citation

Berkeley Advanced Reconstruction Toolbox (RRID:SCR_016168)

Resource Information

URL: <https://doi.org/10.5281/zenodo.592960>

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Description: Image reconstruction software for MRI. Its library provides common operations on multi-dimensional arrays, Fourier and wavelet transforms, as well as generic implementations of iterative optimization algorithms.

Abbreviations: BART

Resource Type: data processing software, image analysis software, image reconstruction software, software application, software resource

Keywords: mri, reconstruction, magnetic, resonance, neuroimaging, array, transform, algorithm

Funding: American Heart Association 12BGIA9660006;
GE Healthcare ;
NCRR R41 RR09784;
NIBIB R01 EB009690;
Sloan Research Fellowship ;
UC Discovery 193037

Availability: Open source, Free

Resource Name: Berkeley Advanced Reconstruction Toolbox

Resource ID: SCR_016168

Alternate URLs: <https://mrirecon.github.io/bart/>, <https://sources.debian.org/src/bart/>

License: BSD 3-Clause "New" or "Revised" License (BSD-3-Clause)

Record Creation Time: 20220129T080329+0000

Ratings and Alerts

No rating or validation information has been found for Berkeley Advanced Reconstruction Toolbox.

No alerts have been found for Berkeley Advanced Reconstruction Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Huemer M, et al. (2026) Dynamic Transitions for Fast Joint Acquisition and Reconstruction of CEST- R e x $\{R\}_{ex}$ and T 1 $\{T\}_1$. Magnetic resonance in medicine, 95(4), 2153.

Runderkamp BA, et al. (2025) High-Resolution 3D Turbo Spin-Echo Wrist MRI at 7T Accelerated by Compressed Sensing. NMR in biomedicine, 38(6), e70041.

Korobova NV, et al. (2025) A correction for modeling radial, spiral, and PROPELLER dynamic contrast-enhanced data: Time-averaged extended Tofts. Magnetic resonance in medicine, 94(2), 810.

Safari M, et al. (2025) Advancing MRI Reconstruction: A Systematic Review of Deep Learning and Compressed Sensing Integration. ArXiv.

Yalcinbas MF, et al. (2025) Rosette Trajectory MRI Reconstruction with Vision Transformers. Tomography (Ann Arbor, Mich.), 11(4).

Tamir JI, et al. (2025) MRI acquisition and reconstruction cookbook: recipes for reproducibility, served with real-world flavour. Magma (New York, N.Y.), 38(3), 367.

Blumenthal M, et al. (2024) Self-supervised learning for improved calibrationless radial MRI with NLINV-Net. Magnetic resonance in medicine, 92(6), 2447.

Blocker SJ, et al. (2024) MR histology reveals tissue features beneath heterogeneous MRI signal in genetically engineered mouse models of sarcoma. Frontiers in oncology, 14, 1287479.

Safari M, et al. (2024) Fast MRI Reconstruction Using Deep Learning-based Compressed Sensing: A Systematic Review. ArXiv.

de Souza DAR, et al. (2023) Evaluation of kernel low-rank compressed sensing in preclinical diffusion magnetic resonance imaging. *Frontiers in neuroscience*, 17, 1172830.

Ogier AC, et al. (2022) The Road Toward Reproducibility of Parametric Mapping of the Heart: A Technical Review. *Frontiers in cardiovascular medicine*, 9, 876475.