Resource Summary Report

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Monte Carlo Simulation Software: tMCimg

RRID:SCR_002588
Type: Tool

Proper Citation

Monte Carlo Simulation Software: tMCimg (RRID:SCR_002588)

Resource Information

URL: http://www.nmr.mgh.harvard.edu/DOT/resources/tmcimg/

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Description: Software application that uses a Monte Carlo algorithm to model the transport of photons through 3D volumes with spatially varying optical properties. Both highly-scattering tissues (e.g. white matter) and weakly scattering tissues (e.g. cerebral spinal fluid) are supported. Using the anatomical information provided by MRI, X-ray CT, or ultrasound, accurate solutions to the photon migration forward problems are computed in times ranging from minutes to hours, depending on the optical properties and the computing resources available.

Abbreviations: tMCimg

Synonyms: Monte Carlo Photon Transport

Resource Type: software application, simulation software, software resource

Defining Citation: PMID:19424345

Keywords: c, computed tomography, macos, microsoft, modeling, monte carlo, magnetic resonance, optical imaging, posix/unix-like, windows, mri, x-ray ct, ultrasound, photon

Funding:

Availability: BSD License

Resource Name: Monte Carlo Simulation Software: tMCimg

Resource ID: SCR_002588

Alternate IDs: nlx_155993

Alternate URLs: http://www.nitrc.org/projects/tmcimg

Record Creation Time: 20220129T080214+0000

Record Last Update: 20250508T064800+0000

Ratings and Alerts

No rating or validation information has been found for Monte Carlo Simulation Software: tMCimg.

No alerts have been found for Monte Carlo Simulation Software: tMCimg.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Dietrich JW, et al. (2016) Calculated Parameters of Thyroid Homeostasis: Emerging Tools for Differential Diagnosis and Clinical Research. Frontiers in endocrinology, 7, 57.