

# Resource Summary Report

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## Mesh-based Monte Carlo (MMC)

RRID:SCR\_006950

Type: Tool

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### Proper Citation

Mesh-based Monte Carlo (MMC) (RRID:SCR\_006950)

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### Resource Information

**URL:** <http://mcx.sf.net/mmc/>

**Proper Citation:** Mesh-based Monte Carlo (MMC) (RRID:SCR\_006950)

**Description:** A Monte Carlo (MC) solver for photon migration in 3D turbid media. Different from existing MC software designed for layered (such as MCML) or voxel-based media (such as MMC or tMCimg), MMC can represent a complex domain using a tetrahedral mesh. This not only greatly improves the accuracy of the solutions when modeling objects with smooth/complex boundaries, but also gives an efficient way to sample the problem domain to use less memory. The current version of MMC support multi-threaded programming and can give a almost proportional speed-up when using multiple CPU cores.

**Abbreviations:** MMC

**Synonyms:** Mesh-based Monte Carlo

**Resource Type:** software application, software resource

**Keywords:** c, console (text based), modeling, monte carlo, optical imaging, posix/unix-like

**Availability:** GNU General Public License

**Resource Name:** Mesh-based Monte Carlo (MMC)

**Resource ID:** SCR\_006950

**Alternate IDs:** nlx\_155810

**Alternate URLs:** <http://www.nitrc.org/projects/mmc>

**Record Creation Time:** 20220129T080239+0000

**Record Last Update:** 20260727T040419+0000

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## Ratings and Alerts

No rating or validation information has been found for Mesh-based Monte Carlo (MMC).

No alerts have been found for Mesh-based Monte Carlo (MMC).

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.