

1 Introduction

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2 Requirements

The product receives EEG/MEG sensor data and constructs a real-time 3D visualization of the brains current activities.

2.1 Mandatory criteria

The following functions have to be implemented correctly and fulfill given requirements.

2.1.1 Surface constrained distance calculation(geodesic problem on meshes)

The function receives input data, preprocessed by the software environment, structured as a triangulated surface mesh. The mesh can contain up to 200,000 vertices.

- 1 Based on that data, the function calculates a matrix that holds values describing the distance between all selected vertices.