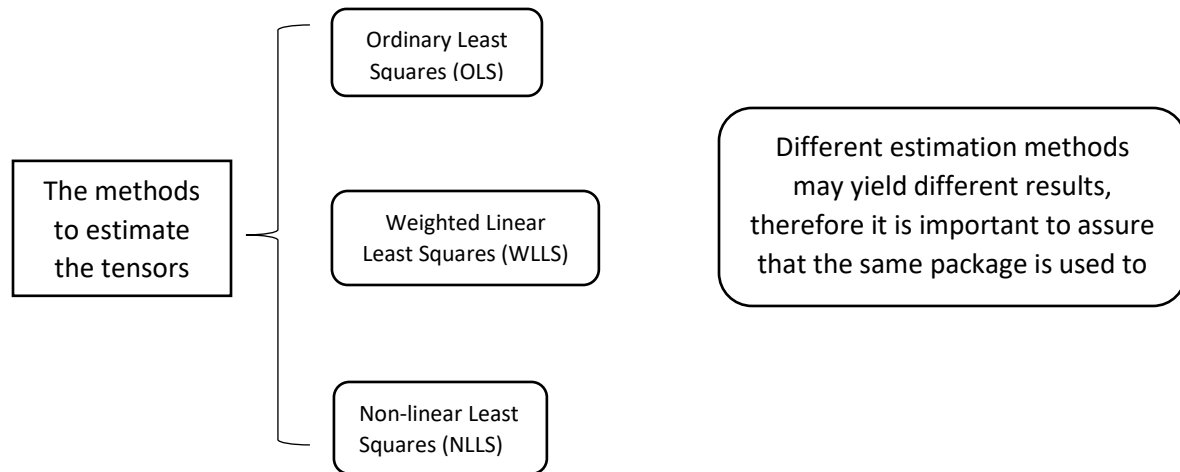


Summary

1. Processing and Visualization

Comprises tensor estimation

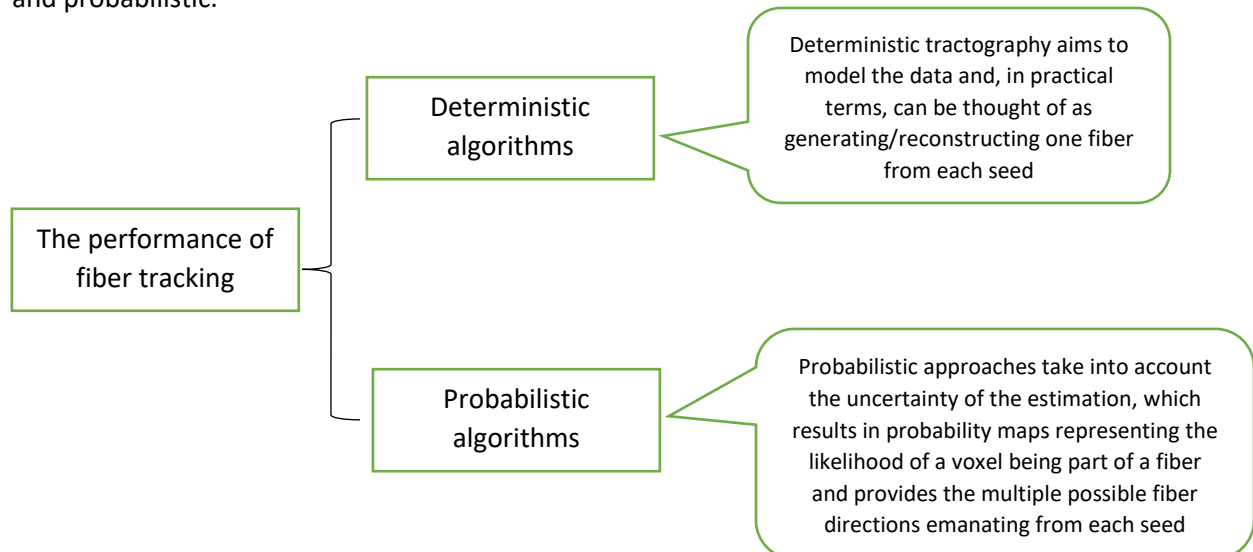
1, three main methods to estimate the tensors: Ordinary Least Squares (OLS), Weighted Linear Least Squares (WLLS) and Non-linear Least Squares (NLLS)



The biggest challenges in DTI is to visualize and present the tensor information in an intuitive and easily understandable way. But the data is high dimensional and the diffusion tensor domain is complex association.

If we use 2D visualization of scalar maps due to its simplicity and instant visualization. But this approach has limitations in the quantity of information presented.

Fiber tracking can be performed with different algorithms divided in two main categories: deterministic and probabilistic.



2. Quantitative analysis

