

Software for isometric gene tree reconciliation

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Progress

First chapter

- Introduction to the topic
- Definition of basic terms, essential terminology
- Explanation of gene tree reconciliation
- Introduction of existing software with different gene tree reconciliation algorithms

GitHub of project: https://github.com/mihalova/diploma_thesis

Implementation

Software:

- Programming language: Java (SDK 11)
- Libraries: Ipsolve (linear programming solver)
- Partially implemented classes: Edge, Node, RootedTree, RootedNode, UnrootedTree, UnrootedNode, Parser

Validation:

- comparison of results from software with considered branch lengths/without considered branch lengths
- How much good/bad was the result?
- Dependency of branch lengths to the result