

that may be used (eg genetic, ant-colony, random forest, monte carlo). As much as possible the search space will be divided so that parallelized GRID computing can be used (collaboration with Finnish Center for Scientific computing).

Performance will be compared to existing software (eg Schrödinger, Modeller 9v2, Swissmodeller, Tripos/Sybyl,

Accelrys/Discovery studio) based on retrospective reconstruction of known Xray structures.

Data already available: object-oriented code that allow many geometrical definitions (helices, blocks of amino

acids) and their transformations, code for parsing PDB files.

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