



Comenius University in Bratislava
Faculty of Mathematics, Physics and Informatics

THESIS ASSIGNMENT

Name and Surname: Bc. Matúš Zelenák
Study programme: Computer Science (Single degree study, master II. deg., full time form)
Field of Study: Computer Science
Type of Thesis: Diploma Thesis
Language of Thesis: English
Secondary language: Slovak

Title: Algorithms for Assembly of Hybrid Genomes from Long Reads

Annotation: Hybrid genomes can contain two or more slightly different copies of the same set of chromosomes. Depending on the level of similarity between the copies, traditional algorithms for genome assembly either mix the two copies or assemble the copies separately. The goal of this thesis is to develop new algorithms by utilizing new information brought to the problem with long read sequencing.

Supervisor: doc. Mgr. Tomáš Vinař, PhD.
Department: FMFI.KAI - Department of Applied Informatics
Head of department: prof. Ing. Igor Farkaš, Dr.

Assigned: 15.12.2017

Approved: 15.12.2017
prof. RNDr. Rastislav Kráľovič, PhD.
Guarantor of Study Programme

Student

Supervisor