Final project proposal

Type	Master
Title	***Protein Function Prediction***
Supervisor	Slobodan Kalajdziski
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Department / Group	
Department od Intelligent Systems	
Topic(s)	
Bioinformatics, data mining	
Project can start from	01.04.2014
Project duration	8 months
Short description	
By this project the student should implement a system for protein function prediction. The student should understand the protein function from the biological perspective, then he/she should analyze the protein function description schemes and protein data banks and after that he/she should implement algorithms for representation of biological protein data into computer representable form and implement efficient classification algorithms for protein function prediction. If it is necessary, the classification algorithms should be run on a specialized Faculty lab for high-performance computing.	
Results and assessment	
The results the student should present as a project outcome are written report (or scientific paper), presentation, and experimental results. If the result is in a form of scientific paper, than conference acceptance of it would be enough for completing the project, otherwise the student should made public presentation of his/her work.	
Other (additional) information	