BSc Thesis Task Description

**Richard Garai**

candidate for BSc degree in Computer Engineering

Data Anonymization in Go with a graph-based algorithm

In our modern world data is a commodity. Big software companies have recognized this, and offer convenient, easy to use software and services “for free.” In reality however, nothing is free. Users of these services are paying with their personal data. As a result, we are now subject to a greater level of surveillance than in any point in history, and we hand over most of our data willingly.

Modern societies, like the European Union now have stricter regulations on the handling and disclosure of personal data. One example is the “General Data Protection Regulation” (GDPR), which demands, that the disclosed data undergo an ***anonymization*** or pseudonymization process.

This thesis presents the detailed description of a graph-based anonymization algorithm, and an implementation of the same algorithm by the author of the thesis written in the Go programming language. It also presents the integration of the algorithm into another anonymization framework.

Tasks to be performed by the student will include:

* Understand, and present the graph-based anonymization algorithm
* Create an implementation of the above algorithm in the Go programming language
* Present the Go anonymization algorithm
* Analyze the performance of the Go library
* Understand an existing anonymization framework and integrate the Go library into it as a new, selectable anonymization algorithm

**Supervisor at the department:** Dr. Ákos Dudás, associate professor

**External supervisor:** Peter Youngbighead, Sophisticated Processing Ltd.

Budapest, 16 September 2019

Dr. Hassan Charaf

professor

head of department