



**FACULTY  
OF INFORMATION  
TECHNOLOGY  
CTU IN PRAGUE**

## ASSIGNMENT OF BACHELOR'S THESIS

**Title:** Grammar interactive evolution of graph interfaces  
**Student:** Petr Hanzl  
**Supervisor:** doc. Ing. Pavel Kordík, Ph.D.  
**Study Programme:** Informatics  
**Study Branch:** Knowledge Engineering  
**Department:** Department of Applied Mathematics  
**Validity:** Until the end of winter semester 2019/20

### Instructions

Explore the field of interactive evolution and grammar evolution. Adapt the grammar evolution to evolve description of visual interfaces. The fitness should be computed from user feedback (see. the Picbreeder project). Implement a prototype and demonstrate its functionality using at least three synthetic and real world use cases.

### References

Will be provided by the supervisor.

Ing. Karel Klouda, Ph.D.  
Head of Department

doc. RNDr. Ing. Marcel Jiřina, Ph.D.  
Dean

Prague February 16, 2018