Scheduling problems in public transportation

**Doctoral School:** Doctoral School of Computer Science  
**Institute:** University of Szeged  
**Supervisor:** Miklós Krész

**Topic Description:**
A central problem of public transportation companies is to optimize their operational process. Since the minimization of the overall operational cost is a very complex task, the arising subproblems are considered as separated optimization problems such as route planning, timetabling, vehicle and driver scheduling. The research goal is to develop efficient models and methods for the above mentioned scheduling problems such that the solutions are capable to handle large size test cases with real-world constraints. The solution approach is expected to support the dynamic planning arising in public transit with respect to the "smart-city" concept.

**Admissible number of students:** 2  
**Deadline for applications:** 2016-09-30

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