ÚSTAV INFORMATIKY
SLOVENSKÁ AKADÉMIA VIED

Pozývame Vás na

SEMINÁR ÚI SAV,
**ktorý sa bude konať v utorok 17.1.2017 o 9.30 hod.
v zasadačke č. 102**

Program:
Mgr. Marek Košta, PhD.
(odd. Ing. M. Baláž, PhD.)

Title:
Real Quantifier Elimination

Abstract :
In this talk I will discuss the problem of real quantifier elimination from theoretical and---more importantly---practical point of view. I will first formally introduce the problem and shortly discuss its time complexity. Afterwards I will explain the two most prominent practically applicable methods for real quantifier elimination: (1) Cylindrical Algebraic Decomposition and (2) Virtual Substitution. I will also briefly mention some of the results of my recent doctoral dissertation, where I have developed and implemented new concepts for practically applicable Virtual Substitution. Furthermore, I will mention several well-known software tools for real quantifier elimination and show a few success stories of applications of real quantifier elimination. Finally, I will show how concrete problems can be easily solved by our computer logic system REDLOG, which implements various methods for real quantifier elimination.

Tešíme sa na stretnutie s Vami pri šálke kávy alebo čaju.

Ing. Ivana Budinská, PhD.
riaditeľka