# Guest Lecture

HAEC

## Stability in Graphs and Games

**Professor Antonin Kucera**

Masaryk University, Faculty of Informatics, Brno, Czech Republic

**Thursday, October 06, 2016**
**11:00 am - 12:00 noon**
**Room: Andreas-Pfitzmann-Building, Room 3027, Nöthnitzer Str. 46**

**Abstract:** We study graphs and two-player games in which rewards are assigned to states, and the goal of the players is to satisfy or dissatisfy certain property of the generated outcome, given as a mean payoff property. Since the notion of mean-payoff does not reflect possible fluctuations from the mean-payoff along a run, we propose definitions and algorithms for capturing the stability of the system, and give algorithms for deciding if a given mean payoff and stability objective can be ensured in the system.

TECHNISCHE
UNIVERSITÄT
DRESDEN

DRESDEN
concept

DFG