PAVOL HELL, Simon Fraser University, Burnaby, BC, V5A 1S6
Variants of interval digraphs

I will discuss various directed analogues of interval graphs and proper interval graphs, their forbidden structure characterizations, and polynomial recogniziton algorithms. These concepts are motivated by the relation with graph polymorphisms, which play a role in solving constraint satisfaction problems.

This is joint work with Arash Rafiey, Jing Huang, and Tomas Feder.