

AGCO Seminar

Speaker: Corinna Mathwieser. RWTH Aachen University, Germany

Title: Precedence Constraint Matching

Title: Learning-augmented Assignment: Santa Claus does Load Balancing.

Abstract:

In the precedence-constrained perfect matching problem, one needs to incrementally build a matching, whereby the order in which edges join the matching is subject to precedence constraints. Given a graph $G = (V, E)$, a precedence constraint is a pair (X, e) with e being an edge and X a set of vertices, meaning that e may only be added to the matching after covering at least one vertex in X . In this talk, I will introduce C-canonical precedence constraints, where an edge may join a matching if both end-vertices have (shortest path) distance at most C to the current matching. I will talk about the complexity of the problem for different values of C and for different graph classes and present some open questions.

When: August 21, 3:00pm.

Where: Sala de Seminario John Von Neumann, 7th floor, CMM, Av. Beauchef 851, Torre Norte.

