

SIPO (Seminario de Investigadores Postdoctorales)

Speaker: Kitti Varga, Universidad de Tecnología y Economía de Budapest.

Title: Inverse and reverse optimization problems.

Abstract: Inverse and reverse optimization problems aim to adjust the objective function of an underlying optimization problem while minimizing the extent of modification. In inverse optimization, the goal is to modify the objective function so that a given feasible solution becomes optimal. In reverse optimization, the goal is to modify the objective function so that the optimum value attains a specified number.

In this talk, we mainly focus on inverse maximum-capacity optimization problems under the bottleneck Hamming distance, the weighted infinity norm and weighted span objectives. Our main contributions include simple, purely combinatorial algorithms that efficiently solve these general problems, assuming that an efficient algorithm is available for the underlying optimization problem.

Date and Time: 30th June, Monday at 2.30 PM.

Venue: John Von Neumann Seminar Room, CMM, Beauchef 851, North Tower, 7th Floor.

