

AGCO Seminar.

Speakers: Nelson Maculan, Federal University of Rio de Janeiro.

Title: Mathematical Optimization Models for the Euclidean Steiner Tree Problem in R^n .

Abstract:

In this talk, we review the mathematical optimization models for the Euclidean Steiner Tree Problem (ESTP) in n dimensions proposed in the literature. The development of such models for the ESTP began in the late 1990s. The ESTP is a mixed integer nonlinear optimization problem with a history dating back to the 17th century. Several properties of its optimal solutions are well known, but it is still a big challenge to encode these properties in its modeling, aiming for its numerical resolution with branch-and-bound algorithms. We identify some of the difficulties and present the modeling techniques used in the literature to overcome them.

When: April 22, 3:00 pm - 4:00 pm.

Where: Sala de Seminario von Neuman, 7th floor, CMM, Av. Beauchef 851, Torre Norte.

