



# Workshop Optileco

## Optimization, learning and cooperation with applications in economics, energy and logistics

April 12th, 2024

Facultade de Ciencias Economicas e Empresariais, Aula-Seminario 8, Universidade de Vigo

10-11:30 SESSION ON SOLUTIONS OF COOPERATIVE GAMES AND ECONOMIC APPLICATIONS

**Signed weighted Shapley values.** Estela Sánchez Rodríguez (Universidade de Vigo)

**Airport problems with cloned agents.** Miguel Ángel Mirás Calvo (Universidade de Vigo)

**Utility distortion in claims problems.** Bas Dietzenbacher (Maastricht University, NL)

11:30 *Online connection with CITMAga.* Rosa Crujeiras Casais

*Coffee Break*

12-14 SESSION ON COOPERATIVE MODELS OF OPERATIONS RESEARCH AND LOGISTICS APPLICATIONS

**Decision support systems for scheduling and routing problems in a home care business.**

Isabel Méndez Fernández (Universidade de A Coruña)

**Evaluating the impact of items and cooperation in inventory models with exemptable ordering costs.** Ignacio García Jurado (Universidade de A Coruña)

**Sequencing games with batch ordered jobs.** Iago Núñez Lugilde (Universidade de Vigo)

**A connection-based analysis of networks using the position value: a computational approach.**

Alejandro Saavedra Nieves (Universidade de Santiago de Compostela)

*Lunch*

15:30-17 SESSION ON POLINOMIAL OPTIMIZATION AND APPLICATIONS IN ENERGY PROBLEMS

**Reducing the gap when solving MINLP problems: insights from polynomial optimization.**

Iria Rodríguez Acevedo (Universidade de Santiago de Compostela)

**Learning for spatial branching: an algorithm selection approach.** Brais González Rodríguez (Universidade de Santiago de Compostela)

**Optimizing power networks: fundamentals and challenges.** Ignacio Gómez Casares (Universidade de Santiago de Compostela)

17-18 SESSION ON GRAPHS AND TREES

**Coordination of fire-fighting helicopters extinguishing large wildfires.** Marta Rodríguez Barreiro (Universidade de A Coruña)

**Classifiers based on minimum spanning trees.** Iria Rodríguez Acevedo (Universidade de Santiago de Compostela)

**An overview to some source connection problems.** Laura Davila Pena (University of Kent, UK).

*Online*