

# Optimization of Logistics Systems

## 3 ECTS

### Lecturer

**Prof. Dr. Daniele Vigo**  
University of Bologna, Italy

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### Selected publications

Daniele Vigo is author of more than 80 papers and book chapters published by the major journals and publishers in the field of Operations Research.

### Course description

The course is aimed at providing an overview of the quantitative methods that can be used to support the optimal design and management of modern logistics systems. Special attention will be devoted to the demand analysis and data procurement, to the design of logistic networks and to the optimization of long distance and local transportation of freights. Illustrative examples of models and algorithms will be treated by using general purpose and special solvers.

### Curriculum Vitae

- Daniele Vigo was born in Milano, Italy, on May 23, 1963.
- On March, 22nd, 1989, he gained an M.Sc. Degree in Electronic Engineering.
- On November 1, 1989, he started the Ph.D. program in Systems Engineering.
- On September 9, 1993, he successfully defended his doctoral dissertation “Algoritmi Esatti ed Approssimati per Problemi di Routing e di Scheduling” (Exact and Heuristic Algorithms for Routing and Scheduling Problems).
- On November 1, 1998 he was nominated Associate Professor of Operations Research at the Faculty of Engineering of the University of Bologna.
- On December, 2001, he obtained his habilitation and was appointed to the position of Full Professor.
- On January, 2004, he was nominated Full Professor of Operations Research at the 2nd Faculty of Engineering of the University of Bologna.
- Daniele Vigo is married and has two sons.

### Research specializations

- Design and analysis of Combinatorial Optimization problems
- Exact techniques, heuristic and metaheuristic techniques