Optimization of Logistics Systems

3 ECTS

Lecturer

Prof. Dr. Daniele Vigo
University of Bologna, Italy

Please contact Dr. habil. Mahdi Moeini for further information:
mahdi.moeini@wiwi.uni-kl.de

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 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 obtained in 1993 the PhD in Systems Engineering at the University of Bologna and since 2004 is Professor of Operations Research at the Department of Electrical, Electronic and Information Engineering of the University of Bologna.

He is visiting professor at the Technical University of Wien, at the Vrije University Amsterdam and at the University of Lille.

He has been president of the Italian OR society and is founder and coordinator of the EURO working group on Vehicle Routing and Logistics optimization.

Research specializations

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

Selected publications

Daniele Vigo is author of more than 130 scientific papers and coeditor of some highly cited books on vehicle routing and logistics optimization.