Name

Francesca Guerriero

Role

Full Professor

Short CV

.Francesca Guerriero obtained a Degree in Management Engineering and a PhD in Engineering of Systems and Computer Science from the University of Calabria. Her main research interests lie in field of network optimisation. Other area of interests include logistics, revenue management and robust optimization. She has published extensively in these fields, (over 80 papers) in a variety of journals, She has been and currently is involved in research projects sponsored and funded by the National Research Council of the European Community and of the Italian Ministry of Education. She currently is the Vice Dean of the Department of Mechanical, Energy and Management Engineering, University of Calabria and the Management Engineering Graduate Coordinator, University of Calabria.

Teaching Activities

Linear Algebra and Geometry, Operations Research 2, Management Engineering Undergraduate Course.

Selected Publications

D. Ferone, P. Festa, F. Guerriero, D. Laganà, The constrained shortest path tour problem (2016) Computers and Operations Research, 74, pp. 64-77.

L. Di Puglia Pugliese, F. Guerriero, D. Zorbas, T. Razafindralambo, Modelling the mobile target covering problem using flying drones (2016) Optimization Letters, 10 (5), pp. 1021-1052.

F. Guerriero, G. Miglionico, F. Olivito, Managing TV commercials inventory in the Italian advertising market (2016) International Journal of Production Research, pp. 1-23. Article in Press.

L. Di Puglia Pugliese, F. Guerriero, On the shortest path problem with negative cost cycles (2016) Computational Optimization and Applications, 63 (2), pp. 559-583.

L. Grandinetti, F. Guerriero, L. Di Puglia Pugliese, M. Sheikhalishahi, Heuristics for the local grid scheduling problem with processing time constraints (2015) Journal of Heuristics, 21 (4), pp. 523-547.

A. Alves Pessoa, L. Di Puglia Pugliese, F. Guerriero, M. Poss, Robust constrained shortest path problems under budgeted uncertainty (2015) Networks, 66 (2), pp. 98-111.

L. Di Puglia Pugliese, F. Guerriero, J.L. Santos, Dynamic programming for spanning tree problems: application to the multi-objective case (2015) Optimization Letters, 9 (3), pp. 437-450.

F. Guerriero, G. Miglionico, F. Olivito, Location and reorganization problems: The Calabrian health care system case (2014) European Journal of Operational Research. Article in Press.

F. Guerriero, G. Miglionico, F. Olivito, Strategic and operational decisions in restaurant revenue management (2014) European Journal of Operational Research, 237 (3), pp. 1119-1132.

Research lines

- Network Optimization
  Analysis and development of solution approaches for network flow optimization problems.
- Combinatorial Optimization
  Definition, analysis and development of innovative solution approaches for combinatorial optimization problem.
- Logistics
  Definition, analysis and development of efficient approaches for solving problems arising in the fields of logistics and supply chain management. The attention has been focused on the plant location problem, the multiobjective uncapacitated arc routing problem, the inventory routing problem, the products allocation problem, the truck and trailer routing problem, the green vehicle routing problem and the vehicle routing problem with occasional drivers.
- Revenue Management
  The research is aimed at the development of revenue management techniques for services industry
- Project Management
  The research has been directed toward developing models and methods for addressing the project scheduling problem, in the presence of different types of time constraints. Some issues related to project management under uncertainty and resource constraints have been also investigated.