

# Simone Zanda

## Current position

*PhD Student, University of Cagliari, Italy*

## Work Experience

- 2017 Organizing committee of conference Odysseus2018, Advances in the theory, practice and application of mathematical models, methodologies and decision support systems in the field of freight transportation and logistics. Developer software for the problem: Tourist Trip Design Problems, using integer programming technique, the tools used for this project was (python) django for the REST API, pulp to write mathematical model, Open Street Routing Map to get the street network(foot) with slope.
- 2017 Developer Column Generation technique to solve problem of CVRPB (cplex).
- 2016 Developer software for build mathematical model using enumerated routes to solve set covering problems of CVRPB. I used,python,pulp, (cplex)
- 2016 Developer software for the problem: Optimizing Human Resource Management in a Shop of Bricolage in Cagliari, (python) using integer programming technique, the tools was Flask, to make the application web, mysql for the Db.
- 2016 Work contract for research project Cagliari Portzo20 , Activity of this project are: Logistics Optimization of the management of human resource and the planning of maintenance in the Cagliari transshipment container port.  
Logistics Optimization of the distribution of not-containerized freight moving to/from the port in the network of Cagliari
- 2015 Developer software for the problem: Optimizing Human Resource Management in a Hospital of Cagliari (python) using integer programming technique, the whole interface was in excel.
- 2014 Developer software for the problem: Optimizing Human Resource Management in Transshipment Container (python).
- 2013 Analyze An Optimization Model for Human Resource Management in Transshipment Container .  
Developer software for the problems : CVRP, CVRPB, ACVRPB, using heuristic technique (c++) , Grasp, fast local search, tabu search with static move descriptor.

## Education

- 2013 MASTER'S DEGREE in Computer Science, University of Cagliari.
- 2011 BACHELOR'S DEGREE in Computer Science, University of Cagliari.

## Publications & talks

### JOURNAL ARTICLES

- 2017 ZANDA, S., SEATZU, C., ZUDDAS, P. A Long term nurse scheduling via a decision support system based on linear integer programming: A case study at the University Hospital in Cagliari (SUBMITTED TO COMPUTERS AND INDUSTRIAL ENGINEERING).
- 2015 DI FRANCESCO, M., DIAZ-MAROTO LLORENTE, N., ZANDA, S., ZUDDAS P. AN OPTIMIZATION MODEL FOR THE SHORT-TERM MANPOWER PLANNING PROBLEM IN TRANSSHIPMENT CONTAINER TERMINALS
- 2015 DI FRANCESCO, M., DIAZ-MAROTO LLORENTE, N., ZANDA, S., ZUDDAS P. OPTIMIZING THE DAILY MANPOWER MANAGEMENT IN TRANSSHIPMENT CONTAINER TERMINALS
- 2014 DI FRANCESCO, M., MANCA, A., ZANDA, S., ZUDDAS P. PLANNING AND OPTIMIZING MANPOWER MANAGEMENT IN A TRANSSHIPMENT CONTAINER TERMINAL

### TALKS

- 2017 ZANDA, S., SEATZU, C., ZUDDAS, P. A stepping horizon view on scheduling of working hours of nurses in hospital: The case of the University Hospital in Cagliari
- 2016 ZANDA, S., SEATZU, C., ZUDDAS, P. Scheduling of working hours of nurses in hospital: The case of the University Hospital in Cagliari
- 2015 DI FRANCESCO, M., BARALLA, G., FADDA, G., MANCINI, S., ZANDA, S., ZUDDAS, P. A GRASP METAHEURISTIC FOR THE VEHICLE ROUTING PROBLEM WITH CLUSTERED BACKHAULS. VEROLOG CONFERENCE, VIENNA
- 2015 DI FRANCESCO, M., DIAZ-MAROTO LLORENTE, N., ZANDA, S., ZUDDAS P.. OPTIMIZING THE DAILY MANPOWER PLANNING IN A REAL TRANSSHIPMENT CONTAINER TERMINAL. WCTRS. ANTWERP
- 2014 DI FRANCESCO, M., MANCA, A., ZANDA, S., ZUDDAS P. OPTIMIZING HUMAN RESOURCE MANAGEMENT WITH SPLIT SHIFTS OF QUAY CRANE OPERATORS 44RD AIRO CONFERENCE, COMO, ITALY

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