First AIROYoung Workshop — 16-17 February 2017, Rome, Italy

Emerging Optimisation Problems in Complex Networks

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We are pleased to invite you to attend the first AIROYoung Workshop. *AIROYoung* is the youth chapter of AIRO, the Italian Operational Research Society. Its aim is to foster collaboration between students and early-career researchers interested in the field of OR, and to provide them with new opportunities to advance their carreer and expand their network. It also strives to connect the demand and the offer in the OR job market, both in academia and in the industry.

Participation to the workshop is **free** of charge. Furthermore, AIROYoung members can request a [travel grant](#). [Register now!](#)

This workshop is organised by [Lavinia Amorosi](#) (University of Rome, La Sapienza) and [Alberto Santini](#) (University of Bologna), who are also part of AIROYoung's steering committe together with [Martina Fischetti](#) (Danish Technical University) and [Veronica Dal Sasso](#) (University of Padova). AIRO is currently chaired by Prof. [Daniele Vigo](#).

This workshop has been made possible thanks to the sponsoring of:

🎲 Call for Papers (back to top)

We invite contributions from *all researchers* in the area of Network Optimisation.

15:00 – 15:30	**Coffee break (room 49, 4th floor)**	
15:30 – 17:30	**Seminar session (room V, 4th floor)**	
	15:30 – 16:00	Arthur Kramer, University of Modena and Reggio Emilia *Enhanced arc-flow formulation to minimize weighted completion time on identical parallel machines*
	16:00 – 16:30	Thalis Zis, Technical University of Denmark *Minimization of pollutant emissions of ocean going vessels near and at ports*
	16:30 – 17:00	Giusy Macrina, University of Calabria *Green vehicle routing problem with mixed vehicle fleet, partial recharge and time windows*

17:00 – 17:30	**Martina Fischetti, Technical University of Denmark** *Cable routing of real-world offshore wind parks: can we improve it using Mixed Integer Linear Programming?*
20:00	**Social dinner**

Friday, February 16, 2017

09:30 – 10:30	**Invited speaker (room V, 4th floor)** Prof. Maria Grazia Scutellà, University of Pisa *Optimizing Green Wireless Local Area Networks: nominal and uncertain scenarios*
10:30 – 11:00	**Coffee break (room 49, 4th floor)**
11:00 – 12:30	**Seminar session (room V, 4th floor)**
	11:00 – 11:30 Rosario Paradiso, University of Calabria *A Periodic Inventory Routing Problem Investigation*
	11:30 – 12:00 Anna Melchiori, IAC-CNR *Optimizing Emergency Transportation through*

		Multicommodity Quickest Paths
	12:00 – 12:30	Tommaso Colombo, University of Rome Sapienza *Combining supervised and unsupervised learning techniques to detect postural disorders*

12:30 – 14:00	**Lunch break**
14:00 – 15:30	**Seminar session (room V, 4th floor)**

	14:00 – 14:30	Tommaso Pastore, University of Napoli Federico II *The solution of large-scale Minimum Cost SAT Problem as a tool for data analysis in bioinformatics*
	14:30 – 15:00	Umberto Dellepiane, ACT Operations Research *Bi-level Approach for Supporting Large-Scale Cross-Sectorial Flows Optimization in Industrial Symbiosis*
	15:00 – 15:30	Giorgio Grani, University of Rome Sapienza *Revenue Management: a Market-*

		Service decomposition approach for the Sales Based Integer Program model
15:30 – 16:00	**Coffee break (room 49, 4th floor)**	
16:00 – 17:30	**Seminar session (room V, 4th floor)**	
	16:00 – 16:30	Alberto Santini, RWTH Aachen *A comparison of Acceptance Criteria for the Adaptive Large Neighbourhood Search Metaheuristic*
	16:30 – 17:00	Giacomo Lanza, University of Rome Sapienza *A Progressive Hedging-Based Meta-Heuristic for the Service Network Design Problem with Stochastic Travel Time*
	15:00 – 15:30	Lavinia Amorosi, University of Rome Sapienza *New Optimization Problems in Telecommunication Networks*
17:30 – 18:00	**Closing (room V, 4th floor)**	

⬡ Travel and accommodation

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Getting to Rome

By plane

There are two main airports in Rome: Roma Fiumicino international airport and Roma Ciampino low cost airport. Both are located outside the city, about 45 min away from the city centre.

To get from Fiumicino International Airport to Sapienza University Campus you have three options:

- **Shuttle Train to Roma Termini Station.** There is a direct train (Leonardo Express) from Fiumicino International Airport to Roma Termini Station. The fare is €14. For information about the shuttle train timetable, please visit this website. From Roma Termini Station you can take a taxi cab, and you can expect to pay about €8 to get to the workshop site (main entrance of Sapienza University). Directions will be posted at the entrance.
- **Bus to Roma Termini Station.** Several buses run directly from Fiumicino airport to Roma

Termini Station. These include buses run by
SIT, and Terravision. Prices are usually about
€5 each way, and the ride takes about a half
an hour, depending on traffic.

- **Taxis.** Taxis pick up is outside all Terminals.
  Service is regulated and one-way between the
  airport and downtown is €50. Be sure to use
  an official taxi. Do not trust people who
  approach you offering taxis. They are
  unauthorized and may charge exorbitant
  rates.

To get from Ciampino low cost airport to Sapienza
University Campus you have three options:

- **Train to Roma Termini Station.** There is a
  train station at Ciampino. To get there, you
  have to take one of the ATRAL buses from the
  airport. The fare is €1,30; the drive to the train
  station takes 5 minutes. From there, the train
  to Roma Termini Station takes 15 minutes and
  costs just €1,50.
- **Bus to Roma Termini Station.** Several buses
  run directly from the Ciampino airport to
  Roma Termini Station. These include buses
  run by SIT and Terravision. Prices are usually
  about €5 each way, and the ride takes about a
  half an hour, depending on traffic.
- **Taxis.** Taxis pick up is outside all Terminals.
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By train

Rome is well connected to the main Italian cities as well as less touristy and remote places throughout the country thanks to Trenitalia's railway network. Main train stations in Rome are Roma Termini Station, (central hub of public transport in Rome for both buses and Metros A and B), and Roma Tiburtina Station (Buses and Metro B).

Getting around: bus, tram and metro

If for any reason you take a bus, tram, or the metro, you need a single ticket, which costs €1,50 and is valid for 75 minutes. Tickets can be purchased at tickets machines, in bars, tobacconists and news-stands.

Accommodation

It is possible to reserve your room at a special rate for Sapienza at Casa dell'Aviatore, which has two locations, one in Viale dell'Università (7 min away from the Statistical Departement) and another in Via Spallanzani (15 min away from the Statistical Department). To reserve your accommodation, simply fill out the accommodation form and send it to Mrs. Lavinia Amorosi either via mail or by fax (+39 06 4991 0433). Please take into account that a limited number of rooms are available, so it is better to reserve as soon as possible. Cut off date for reservation is the 10th of January. For more information about Casa dell'Aviatore visit the web site casaviatore.it.

Special rates are available for workshop participants: see the rates summary.

Other hotels are available close to the university, such as the Globus Hotel and the Ateneo Hotel.

Getting to the Statistics Department

The Statistics Department is located whitin the Sapienza University Campus (main entrance in Piazzale Aldo Moro 5). A campus map is available here.

⬡ Travel Grant   (back to top)

AIROYoung members can benefit from a travel grant provided jointly by AIRO and EURO. The grant amount depends on the travel expences incurred and the total number of participants at the workshop. If you are not an AIROYoung member, send an e-mail to airo.young.researchers@gmail.com in order to enroll to AIRO. To be eligible to join AIROYoung, you must either (a) be a Bachelor, Master's or PhD student; or (b) have obtained your PhD at most

five years ago; or (c) be younger than 35.

The travel grant is available for the **first 15 participants** in order of registration.

By enrolling in AIROYoung, you also become a member of AIRO and can therefore join our newsletters, receive the 4OR journal, and enjoy discounts to the association's initiatives, e.g. the «Optimization and Decision Science» annual conference which in 2017 will be held in Sorrento in early September.