Riccardo Giusti – Academic CV

Personal data

Name:	Riccardo
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Date and place of birth:	14-12-1989, Imperia (Italy)
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Contacts

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Research Gate:	https://www.researchgate.net/profile/Riccardo_Giusti2
Scopus:	https://www.scopus.com/authid/detail.uri?authorId=57204016264

Current position

Affiliation:	Dept. of Control and Computer Engineering, Politecnico di Torino, Italy
Position:	Ph.D. student in “Computer and Control Engineering” (XXXIV Cycle). Since 01/11/2018
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Research Interests

- Operations Research
- Synchromodal Logistics / Supply Chain Management
- Facility Location-Allocation
- Real-time re-planning of logistics operations
- Stochastic Programming / Progressive Hedging
- Combinatorial Optimization / Network Optimization

Publications

International journals:

1. R. Giusti, D. Manerba, G. Bruno, R. Tadei. Synchromodal logistics: An overview of critical success factors, enabling technologies, and open research issues. Transportation Research Part E: Logistics and Transportation Review 129, 92-110. 2019. DOI: 10.1016/j.tre.2019.07.009, https://www.sciencedirect.com/science/article/pii/S1366554519303928
2. R. Giusti, C. Iorfida, Y. Li, D. Manerba, S. Musso, G. Perboli, R. Tadei, S. Yuan. Sustainable and de-stressed international supply-chains through the SYNCHRO-NET approach. Sustainability 11 (4):1083. 2019. DOI: 10.3390/su11041083, https://www.mdpi.com/2071-1050/11/4/1083/htm

Conference papers/proceedings:

3. R. Giusti, D. Manerba, G. Perboli, R. Tadei, S. Yuan. A New Open-source System for Strategic Freight Logistics Planning: the SYNCHRO-NET Optimization Tools. Transportation Research Procedia 30C, pp. 245-254, 2018. EURO mini conference on "Advances in Freight Transportation and Logistics", 7-9 March 2018. Padova (Italy). DOI: 10.1016/j.trpro.2018.09.027, https://www.sciencedirect.com/science/article/pii/S2352146518300991

Technical reports:

4. R. Giusti, D. Manerba, R. Tadei. Multi-period Transshipment Location-Allocation Problem with stochastic synchronized operations. Technical report DAUIN-ORO-2019-07, Dept. of Control and Computer Engineering, Politecnico di Torino. Oct 2019. URL: http://www.orgroup.polito.it/material/DAUIN-ORO-2019-07.pdf.
   Submitted to "Networks" (first round review)

Conferences

Speaker:

1. R. Giusti, D. Manerba, Tadei. A Stochastic Multi-period Transshipment Selection Problem with Synchronized Handling Operations. EURO2019, June 23-26, 2019. Dublin (Ireland).
2. R. Giusti, D. Manerba, Tadei. A Stochastic Multi-period Transshipment Selection Problem with Synchronized Handling Operations. 1th EURO Young Workshop, May 2-3, 2019. Seville (Spain).
3. R. Giusti, D. Manerba, R. Tadei. Synchromodal Freight Transportation and Logistics: from state-of-the-art to applications. AIRO YOUNG Workshop 2019, March 28-29, 2019. Rome (Italy)

Co-author:

1. R. Giusti, D. Manerba, G. Perboli, R. Tadei, S. Yuan. A New Open-source System for Strategic Freight Logistics Planning: the SYNCHRO-NET Optimization Tools. EURO mini conference on "Advances in Freight Transportation and Logistics", 7-9 March 2018. Padova, Italy.

Professional Experiences, Collaboration, Projects

Current position:

Since NOV. 2018 – Ph.D. student in "Computer and Control Engineering" (XXXIV Cycle) at Dept. of Control and Computer Engineering, Politecnico di Torino (Polytechnic University of Turin), Italy. Supervisor: Prof. Roberto Tadei. Co-supervisor: Daniele Manerba. Title: "Optimization approaches to synchro-modal network problems".

Previous positions:

- MAR. 2017 - OCT. 2018. Research fellow (MAT/09, Operations Research) at Dept. of Control and Computer Engineering, Politecnico di Torino (Polytechnic University of Turin), Italy. Project: "Packing and Routing Optimization". Main tasks: back-end development, implementation of routing algorithms, software modules integration.
- NOV. 2016 - FEB. 2017. Internship at Accenture Technology Solutions S.r.l, Torino (Italy). Main tasks: system analysis of software for product life-cycle management.

Participation in international projects:

- SYNCHRO-NET - Synchro-modal supply chain eco-NET. European Union's Horizon 2020 research and innovation programme, grant 636354 (20 international partners, total budget 7.5 million €). Leader: DHL Spain. Duration: 42 months (Apr 2015 - Oct 2018).

International collaborations:

- DHL International GmbH (Spain)
- COSCO SHIPPING Lines Co. (Spain)
- Kuehne + Nagel International AG (Ireland)
- London Economics (United Kingdom)
- Fraunhofer Institute for Transportation and Infrastructure Systems IVI (Germany)

Research groups:

- OROgroup – Operations Research group at Dept. of Control and Computer Engineering, Politecnico di Torino (http://www.orgroup.polito.it). Director: Prof. Roberto Tadei.

Memberships:

- AIRO – Italian Association of Operational Research (Section: AIRO Young).
- EURO – Association of European Operational Research Societies (Section EUROYoung).

Curriculum studiorum and student association

Academic degrees:

- DEC. 2015. Master's degree in "Cinema and Media Engineering", Dept. of Control and Computer Engineering, Politecnico di Torino (Polytechnic University of Turin), Italy. Final mark: 103/110
- MAR. 2013. Bachelor's degree in Cinema and Media Engineering", Dept. of Control and Computer Engineering, Politecnico di Torino (Polytechnic University of Turin), Italy. Final mark: 103/110

International experience:

- AUG. 2013 – DEC. 2013. Extra UE Mobility Program, Tecnológico de Monterrey, Campus Querétaro, Mexico.
- JUN. 2013. BEST Summer Course "Parallel Magic", KTH Royal Institute of Technology, Stockholm, Sweden. Topic: program language *Go*

Master's thesis at company:

- SEPT. 2015 – DEC. 2015. "Sviluppo di software lato utente e server per la gestione di sondaggi con risultati in tempo reale" (Full stack development of software to manage polls with real-time visualization of the results). Joint Open Lab of Telecom Italia S.p.a., Politecnico di Torino (Polytechnic University of Turin), Italy. Main task: full stack development.

PhD school/courses:

- 3rd AIROYoung Workshop + PhD School on "Advanced Methods in Optimization and Data Science", with Prof. Teodor Crainic and Prof. Endre Boros, Statistical Department of Sapienza University of Rome (Italy – 2019).
- Introduction to Deep Learning and Constrained-based Reasoning, 20 hours with Prof. Marco Gori, University of Brescia (Italy – 2019).
- Stochastic Programming, 25 hours with Prof. Michel Gendreau, Polytechnic University of Milan (Italy – 2019).
- Graphs and Combinatorial Optimization, 20 hours with Prof. Scatamacchia Rosario, Politecnico di Torino (Polytechnic University of Turin, Italy – 2019).
- Ottimizzazione stocastica e apprendimento ottimale (Stochastic optimization and optimal learning), 15 hours with Prof. Paolo Brandimarte, Politecnico di Torino (Polytechnic University of Turin, Italy – 2019).
- Computational complexity and approximation, 20 hours with Prof. Federico Della Croce, Politecnico di Torino (Polytechnic University of Turin, Italy – 2019).

Volunteering in BEST (Board of European Students of Technology):

- OCT. 2012 - DEC. 2015. Member of the association BEST, taking different role in the organization of technology courses, engineering competition, architecture competition and other events.
- [MOST SIGNIFICANT ROLE in BEST] SEPT. 2013 – MAY 2014. Project manager in the organization of the course of robotics "Hi Robot! How to program your future?" taking place from the 8th till the 20th of May 2014, Politecnico di Torino (Polytechnic University of Turin, Italy).

Technical skills

Competencies:

- Full stack development [ADVANCED]
- Implementation of routing algorithms [ADVANCED]
- Writing and revising of scientific papers [INTERMEDIATE]
- Mathematical programming models design and algorithms implementation for optimization and decision-making problems [INTERMEDIATE]
- Stochastic programming modeling, measures analysis, algorithms [INTERMEDIATE]

Programming languages:

- Java, Android SDK [ADVANCED]
- C++, Javascript, Node.js, HTML CSS, XML, Parse MySQL [INTERMEDIATE]
- Ruby, rails, Go, Python, Tcl [BASIC]

Development environment:

- Android Studio, Eclipse [ADVANCED]
- NetBeans, RubyMine, Visual Studio. [BASIC]

Optimization software:

- IBM ILOG Cplex (Java API) [INTERMEDIATE]

Operating systems:

- Windows, GNU Linux, Android [ADVANCED]

Others:

- Microsoft Office suite / Open Office (Excel, Word, PowerPoint, Access) [ADVANCED]
- Latex Editing [ADVANCED]
- Shell/Bash Scripting [INTERMEDIATE]
- Video Editing (Adobe Premiere, Adobe After Effects) [INTERMEDIATE]
- 3D computer graphics (Blender, Autodesk Maya) [INTERMEDIATE]
- Game engine (Unity, LibGDX) [INTERMEDIATE]
- MATLAB [BASIC]

Soft skills

Languages:

- Italian [MOTHER TONGUE]
- English [ADVANCED]
- Spanish [INTERMEDIATE]
- Portuguese [BASIC]

Europass level (self-assessment)	***English***	***Spanish***	***Portuguese***
Comprehension (listening)	*C1*	*C1*	*B1*
Comprehension (reading)	*C1*	*C1*	*B1*
Speaking (interaction)	*C1*	*B2*	*A2*
Speaking (oral production)	*C1*	*B1*	*A2*
Writing	*C1*	*B1*	*A1*

Social skills:

- Excellent team working in heterogeneous and multiethnic groups.
- Good interaction with academic collaborator and industrial partners.
- Good experience in communication, public speaking and slides preparation.

Organization skills:

- Good experience in organizing time and resources to identify priorities and meet deadlines.
- Good experience in managing human resources and funds to organize events.
- Basic experience in coordinating and technical supervising Master students.