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# Europass curriculum vitae

## Personal information

Surname(s) / First name(s)

**Carotenuto Pasquale**

Address(es)

Mobile:

Telephone(s)

Fax(es)

E-mail(s)

Nationality(-ies)

Italian

Date of birth

Gender

## Occupational field

**Research on:**

- 1. Transportation and Logistics**
- 2. Discrete Events Simulation of Production and Service Systems**
- 3. Operational Research**

## Work experience

Dates

Since May 2010 to now

Occupation or position held

First Technologist

Main activities and responsibilities

Research, research projects management and technological support.

Name and address of employer

National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome  
19, Via dei Taurini – 00185 Rome

Type of business or sector

Research

Dates

Since May 2006 to 2009

Occupation or position held

Technologist

Main activities and responsibilities

Research, research projects management and technological support.

Name and address of employer

National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome  
19, Via dei Taurini – 00185 Rome

Type of business or sector

Research

Dates

**2023 to now**

Occupation or position held

**Research Project Referee**

Main activities and responsibilities

**Appointed expert reviewer of a research project financed by the MISE - Ministry for Economic Development for the Sustainable Growth Fund - call "Accordi per l'Innovazione" D.M. 31/12/2021.**

Name and address of employer

National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome

19, Via dei Taurini – 00185 Rome

Industrial Research

<b>Dates</b>	Year 2021
<b>Occupation or position held</b>	Project Leader
<b>Main activities and responsibilities</b>	Scientific Leader of the CNR-IAC Research Unit in the LODINET-BlueThread project “design and implementation of an artificial intelligence algorithm, aimed at determining tourist routes according to the paradigm of orienteering models.” (IAC- BlueThread s.r.l.)
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo “M. Picone” of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Research
<b>Dates</b>	Year 2021
<b>Occupation or position held</b>	Project Leader
<b>Main activities and responsibilities</b>	Scientific Leader of the CNR-IAC Research Unit in the LODINET-University of Tuscia project “Study of algorithms for the Tourist Trip Design Problem based on Orienteering models and user satisfaction classification algorithms based on the recognition of facial microexpressions” (IAC- University of Tuscia Department of Engineering, ICT and Technologies for Energy and Transport)
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo “M. Picone” of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Research
<b>Dates</b>	Year 2021
<b>Occupation or position held</b>	International Research Project Referee
<b>Main activities and responsibilities</b>	Appointed expert reviewer by European Science Foundation - Science connect (ESF) of a research project funded by the Research Foundation Flanders (FWO). - Call for Junior and Senior Research Projects.
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo “M. Picone” of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Industrial Research
<b>Dates</b>	Year 2020 to now
<b>Occupation or position held</b>	Project Leader
<b>Main activities and responsibilities</b>	Scientific Leader of the CNR-IAC Research Unit in the TIRS project “Industrial transition and post-covid corporate resilience” - Sustainable Mobility Subproject” (Institutional project funded by Education, University and Research Minister)
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo “M. Picone” of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Research
<b>Dates</b>	Year 2019 to now
<b>Occupation or position held</b>	Task Leader
<b>Main activities and responsibilities</b>	Scientific Task Leader of the CNR-IAC Research Unit in the SMARTOUR project “Intelligent Platform for Tourisms” Task 8.3 “Development of optimization models and algorithms for the real-time determination of optimal visit routes and support for an on-demand transport service” (project funded by University and Research Minister)
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo “M. Picone” of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Research
<b>Dates</b>	Year 2019
<b>Occupation or position held</b>	Project Leader
<b>Main activities and responsibilities</b>	Scientific Leader of the CNR-IAC Research Unit in the PHARUS project “Design and implementation of a database according to the relational logic scheme for the registration of investment funds” (IAC-

	Pharus Management Lux S.A..)
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	2017 to now
Occupation or position held	Research Project Referee
Main activities and responsibilities	Appointed expert reviewer of a research project financed by the MISE - Ministry for Economic Development from the Sustainable Growth Fund - "HORIZON2020" Call PON I&C 2014-2020.
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Industrial Research
Dates	Year 2017
Occupation or position held	Project member
Main activities and responsibilities	Member of the PROSFET Project (H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge - Contract ID 734909). Title:"Promoting Sustainable Freight Transport in Urban Contexts:Policy and Decision-Making Approaches". H2020-MSCA-RISE-2016. Started 2017-01-01 ending 2019-12-31.
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	Year 2016
Occupation or position held	Scientific Leader
Main activities and responsibilities	Scientific Leader in the project "Flexible transport services for the last mile in a coordinated and multimodal transport system", funded by Fondazione Nazionale delle Comunicazioni as part of the competition called "Project: Research Grants 2016", for the conferring of 10 research grants..
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	Year 2015
Occupation or position held	International Project Referee
Main activities and responsibilities	Research Project Referee for a public research project financed by the Secretaria de Ciencia Tecnologia e Innovacion (SECITI) del Distrito Federal Ciudad de Mexico
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	Year 2015
Occupation or position held	Invited member
Main activities and responsibilities	Member of the examiners board for the achievement of the PhD in Systems Engineering. Universidad Nacional Autonoma de Mexico.
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	Years 2015/16; 2016/17; 2017/18; 2018/19; 2019/20

Occupation or position held	Contract Professor
Main activities and responsibilities	Course on "Laboratory of Operational Research ", first level Degree in Management Science, University of Roma "Tor Vergata", Department of Enterprise Engineering
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Academic Teaching
Dates	Year 2014
Occupation or position held	Project member
Main activities and responsibilities	Member of the MIE project- "Eco-sustainable Intelligent Mobility" project, funded by MIUR in the context of interventions for the development and enhancement of National Technology Clusters (project CTN01_00034_594122, cluster "Technologies for Smart Communities") Started 2014 Ending 2016
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	Year 2014
Occupation or position held	Project Leader
Main activities and responsibilities	Scientific Leader of the CNR-IAC Research Unit in the project entitled "Q8 Project: Development of an optimization model and the related algorithm for the management at the tactical level of the secondary distribution of fuel oils" (IAC- Kuwait Petroleum Italia S.p.A). National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Name and address of employer	Research
Type of business or sector	Research
Dates	Year 2014
Occupation or position held	Task Leader
Main activities and responsibilities	Scientific leader for the IAC Unit in the task 3.2 "Methods and models for the representation of services and destinations and the generation of personalized itineraries." in the ACTIVITI Project "Cultural Attractors and Information Technologies for Interactive Enhancement and Innovative Tourism" – funded by POR Campania 2007/2013 - Objectives 2.1 and 2.2
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	Year 2013
Occupation or position held	Scientific Leader
Main activities and responsibilities	Scientific Leader of the CNR-IAC Research Unit in the Research Project of Relevant National Interest (PRIN 2012 project) "DIEM-SSP, Disasters and Emergencies Management for Safety and Security in industrial Plants"" (Grant of the Ministry of Education, University and Research grant - MIUR - Decree of 8 November 2013 n. 2,120)
Name and address of employer	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
Type of business or sector	Research
Dates	Year 2013
Occupation or position held	Industrial Research Project Referee
Main activities and responsibilities	Appointed Research Project Referee for several industrial research project in the POR FESR 2007-2013 program financed by FILAS Lazio (financial agency of Lazio Region, Italy).
Name and address of employer	FI.LA.S.-Società Finanziaria Laziale di Sviluppo – via della Conciliazione, 22 – 00193 Roma.
Type of business or sector	Research

<b>Dates</b>	Year 2013
<b>Occupation or position held</b>	Research Project Referee
<b>Main activities and responsibilities</b>	Appointed Research Project Referee for several research project in the program "Futuro in Ricerca 2013" financed by Ministry of Education, University and Research of Italy (MIUR).
<b>Name and address of employer</b>	Ministero dell'Istruzione, dell'Università e della Ricerca – Viale Trastevere, 76/a – 00153 ROMA.
<b>Type of business or sector</b>	Research
 <b>Dates</b>	 Year 2010
<b>Occupation or position held</b>	Scientific Leader
<b>Main activities and responsibilities</b>	Scientific Leader of the CNR-IAC Research Unit in the research project "AQUASER Project: optimize the transfer of sewage sludge and organic waste from water treatment plants to composting plants" (IAC-Consorzio INNOVA)
<b>Name and address of employer</b>	Consiglio Nazionale delle Ricerche Dipartimento Energia e Trasporti – Piazzale Aldo Moro 7 – 00185 Roma
<b>Type of business or sector</b>	Research
 <b>Dates</b>	 Since February 2009
<b>Occupation or position held</b>	CNR Delegate
<b>Main activities and responsibilities</b>	Appointed CNR delegate for "Committee for the arrangement of the technical norms in the road sector of the Infrastructures and the Transports Office" –Appointment of Energy and Transport CNR-Department prot. DET83/varie/09 del 9/2/2009
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Research
 <b>Dates</b>	 Since July 2007 until 2010
<b>Occupation or position held</b>	Scientific Committee Member
<b>Main activities and responsibilities</b>	Scientific Committee Member of the NUBADI ATS for the NU.BA.DI Project "New areas of employment" appointed by the Director of Istituto per le Applicazioni del Calcolo "M. picone" prot. n. 0000748 del 17/07/2007
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Research
 <b>Dates</b>	 Year 2008
<b>Occupation or position held</b>	Scientific Leader
<b>Main activities and responsibilities</b>	Scientific Leader of the CNR-IAC Research Unit in the research project "GeneticDaRP: Dial a ride transport system based on genetic algorithms an insertion heuristics" (IAC-Pluservice)
<b>Name and address of employer</b>	National Research Council - Istituto per le Applicazioni del Calcolo "M. Picone" of Rome 19, Via dei Taurini – 00185 Rome
<b>Type of business or sector</b>	Research
 <b>Dates</b>	 Since August, 2002 until December 2010
<b>Occupation or position held</b>	Expert
<b>Main activities and responsibilities</b>	Inserted in the Project Referee list of MIUR - Ministry of Education, University and Research - of under art. 7, paragraph 1, of the legislative decree July 27, 1999, n. 297.
<b>Name and address of employer</b>	Ministry of Education, University and Research Viale Trastevere 76/a - 00153 Roma
<b>Type of business or sector</b>	Research
 <b>Dates</b>	 Years 2008/09; 2009/2010; 2010/2011; 2011/2012; 2012/2013; 2013/14; 2014/15; 2015/16; 2016/17; 2017/18; 2018/19; 2019/20

Occupation or position held	Contract Professor
Main activities and responsibilities	Course on "Design and Simulation of Production and Service Systems" (5/10 cfu until 2010/11; 3/9 cfu until 2013/14) second level Degree in Management Science
Name and address of employer	Università di Roma "Tor Vergata" Dipartimento di Ingegneria dell'Impresa – viale del Politecnico 1 - 00133 Roma
Type of business or sector	Academic Teaching
Dates	Year 2008/09; 2009/2010, 2010/2011; 2011/2012
Occupation or position held	Contract Professor
Main activities and responsibilities	Course on "Computer Science" (9 cfu), first level Degree in Statistics and Economy
Name and address of employer	University of Roma "La Sapienza" - Faculty of Statistics - P.le Aldo Moro 5 - 00185 Rome
Type of business or sector	Academic Teaching
Dates	Years 2002/03; 2003/04; 2004/05, 2005/06; 2006/07; 2007/08
Occupation or position held	Contract Professor
Main activities and responsibilities	Course on "Design and Simulation of Service Systems" (5 cfu), second level Degree in Management Science
Name and address of employer	University of Rome "Tor Vergata" Department of Enterprise engineering – viale del Politecnico 1 - 00133 Rome
Type of business or sector	Academic Teaching
Date	Years 2004/05, 2005/06; 2006/07; 2007/08
Occupation or position held	Contract Professor
Main activities and responsibilities	Course on "Introduction to Computer Science and Computer Science" (7 cfu), first level Degree in Statistics and Economy
Name and address of employer	University of Roma "La Sapienza" - Faculty of Statistics - P.le Aldo Moro 5 - 00185 Rome
Type of business or sector	Academic Teaching
Dates	Year 2003/04
Occupation or position held	Contract Professor
Main activities and responsibilities	Course on "Computer science" (4 cfu), first level Degree in Statistics and Economy
Name and address of employer	University of Roma "La Sapienza" - Faculty of Statistics - P.le Aldo Moro 5 - 00185 Rome
Type of business or sector	Academic Teaching
Dates	Year 2007/2008
Occupation or position held	Professional appointment
Main activities and responsibilities	Teaching in the IFTS course "High technician on Supply Chain Integrated Management" financed by Lazio Region and European Union, course module on "Project Work: logistics"
Name and address of employer	Accademia Informatica S.r.l. - Viale Città d'Europa, 39 - 00144 Roma
Type of business or sector	Teaching
Dates	Year 2007/2008
Occupation or position held	Professional appointment
Main activities and responsibilities	Teaching in the IFTS course "High technician in the Integrated Logistics" financed by Lazio Region and European Union, course module on "Business Process Re-Engineering"
Name and address of employer	Sediin s.p.a. Via Icilio, 14 - 00153 Roma
Type of business or sector	Teaching
Dates	Year 2007/2008
Occupation or position held	Professional appointment
Main activities and responsibilities	Teaching in the "Course of specialization for the activity of employee to the supply chain: logistics and supply" course module in "Software applications and basics on computer science" financed by

	the Lazio Region.
Name and address of employer	ADACI – Italian association on Supplying Management - Viale Ranzoni, 17 - 20149 Milan
Type of business or sector	Teaching
Dates	<b>Years 2005/2006, 2006/2007, 2008/2009</b>
<b>Occupation or position held</b>	<b>Contract Professor</b>
<b>Main activities and responsibilities</b>	<b>Teaching within the Master on “Management of the sustainable mobility”, course: “The Phenomenon: Actors, Models, Data and Analysis”.</b>
Name and address of employer	University of Roma “La Sapienza” - Faculty of Statistics - P.le Aldo Moro 5 - 00185 Rome
Type of business or sector	<b>Academic Teaching</b>
Dates	Year 2005/2006
Occupation or position held	Contract Professor
Main activities and responsibilities	Teaching within the Master on "Engineering of the networked systems"
Name and address of employer	University of Rome “Tor Vergata” Department of Enterprise engineering- viale del Politecnico 1 - 00133 Rome
Type of business or sector	<b>Academic Teaching</b>
Dates	Years 2001/2002, 2002/2003, 2003/2004, 2004/2005, 2005/2006
Occupation or position held	Contract Professor
Main activities and responsibilities	<b>Integrative teaching to the course of “Database”</b>
Name and address of employer	University of Roma “La Sapienza” - Faculty of Statistics - P.le Aldo Moro 5 - 00185 Rome
Type of business or sector	<b>Academic Teaching</b>
Dates	Years 2003/2004, 2004/2005, 2005/2006, 2006/2007
Occupation or position held	Tutor
Main activities and responsibilities	Teaching support within the Master of first level in "Statistic for the Informative Systems Management"
Name and address of employer	University of Roma “La Sapienza” - Faculty of Statistics - P.le Aldo Moro 5 - 00185 Rome
Type of business or sector	<b>Academic Teaching</b>
Dates	<b>2003</b>
<b>Occupation or position held</b>	<b>Professional appointment</b>
<b>Main activities and responsibilities</b>	<b>Teacher in the IFTS Regional Course “Integrated logistics for the maintenance of technologically advanced repairable systems” financed by the Lazio Region. Course module on “Management of transportation systems”</b>
Name and address of employer	High school Istituto Tecnico Industriale Statale “Enrico Fermi” - Via Cesare Minardi - 00044 Frascati (Roma)
Type of business or sector	<b>Teaching</b>
Dates	Since December 2001 until December 2006
Occupation or position held	Technologist
Main activities and responsibilities	Research, research projects management and technological support.
Name and address of employer	National Research Council – Institute of Industrial Technologies and Automation of Milano 20/A, Viale Lombardia – 20131 Milano
Type of business or sector	Research
Dates	<b>Since July 2001</b>
<b>Occupation or position held</b>	<b>Scientific leader</b>
<b>Main activities and responsibilities</b>	<b>Scientific leader of the operational unit CNR-ITIA for the research project "The telematic support in the distribution networks"(CNRC00AF27_003, 2001).</b>
Name and address of employer	National Research Council
Type of business or sector	7, Piazzale Aldo Moro – 00185 Roma
	<b>Research</b>

<b>Dates</b>	Since January 2000 until December 2001
<b>Occupation or position held</b>	Technologist
<b>Main activities and responsibilities</b>	"Research activity and management of ongoing or next activation project to European level; technological transfer of the results achieved in the projects developed by the ITIA; management of a territorial informative network to support the working group activities joint to the institute and displaced on the national territory, so that to allow an easier and effective interconnection among the groups."
<b>Name and address of employer</b>	National Research Council – Institute of Industrial Technologies and Automation of Milano 20/A, Viale Lombardia – 20131 Milano
<b>Type of business or sector</b>	Research
<b>Dates</b>	1999
<b>Occupation or position held</b>	Professional appointment
<b>Main activities and responsibilities</b>	Teaching in the course "Planner and manager of the local public transport and info mobility"
<b>Name and address of employer</b>	ALFOR-CGIL – via Buonarroti,12 – 00185 Roma
<b>Type of business or sector</b>	Training
<b>Dates</b>	1999
<b>Occupation or position held</b>	Professional appointment
<b>Main activities and responsibilities</b>	Course manager. Title: " Planner and manager of the local public transport and info mobility"
<b>Name and address of employer</b>	ALFOR-CGIL – via Buonarroti,12 – 00185 Roma
<b>Type of business or sector</b>	Training
<b>Dates</b>	1997 Professional appointment
<b>Occupation or position held</b>	Research Project Referee
<b>Main activities and responsibilities</b>	Appointed Research Project Referee for the following research contract: "A methodology of accidents analysis in relationship to single-hit points of the road layout", executed by Elasis S.C.p.A., contract n° 97.00363.PF74
<b>Name and address of employer</b>	National Research Council – Special Project on Transportation Research 7, Piazzale Aldo Moro – 00185 Roma
<b>Type of business or sector</b>	Research
<b>Dates</b>	1997 Professional appointment
<b>Occupation or position held</b>	Research Project Referee
<b>Main activities and responsibilities</b>	Appointed Research Project Referee for the following research contract: "Operations system aid and decisions support to the urban traffic control system operators", executed by Softeco Sismat S.p.a., contract n° 97.00316.PF74
<b>Name and address of employer</b>	National Research Council – Special Project on Transportation Research 7, Piazzale Aldo Moro – 00185 Roma
<b>Type of business or sector</b>	Research
<b>Dates</b>	1997 Professional appointment
<b>Occupation or position held</b>	Research Project Referee
<b>Main activities and responsibilities</b>	Appointed Research Project Referee for the following research contract: "Mathematical model to estimate the impact on the transportation system determined by the development of the international sea trade focused on the Italian harbours", executed by TTA - Trasporti Territorio e Ambiente s.r.l., contract n° 97.00354.PF74
<b>Name and address of employer</b>	National Research Council – Special Project on Transportation Research 7, Piazzale Aldo Moro – 00185 Roma
<b>Type of business or sector</b>	Research
<b>Dates</b>	1997 Professional appointment
<b>Occupation or position held</b>	Research Project Referee
<b>Main activities and responsibilities</b>	Appointed Research Project Referee for the following research contract: "Definition and prototype of a computer structure to support the integration of tools for the organization, the analysis, the simulation, the filtration and the dissemination of value added information

Name and address of employer	related to the urban transport", executed by Consorzio Milano Ricerche, contract n° 97.00358.PF74
Type of business or sector	National Research Council – Special Project on Transportation Research
Dates	7, Piazzale Aldo Moro – 00185 Roma
Occupation or position held	Research
Main activities and responsibilities	Appointed Research Project Referee for the following research contract: "Aid system to the operations and decisions support to the operators of the urban traffic control system", executed by Softeco Sismat S.p.a., contract n° 96.00155.74.
Name and address of employer	National Research Council – Special Project on Transportation Research
Type of business or sector	7, Piazzale Aldo Moro – 00185 Roma
Dates	Research
Occupation or position held	1996 Professional appointment
Main activities and responsibilities	Appointed Research Project Referee for the following research contract: "Mathematical model to estimate the impact on the transportation system determined by the development of the international sea trade focused on the Italian harbors", executed by TTA - Trasporti Territorio e Ambiente s.r.l., contract n° 96.00204.74
Name and address of employer	National Research Council – Special Project on Transportation Research
Type of business or sector	7, Piazzale Aldo Moro – 00185 Roma
Dates	Research
Occupation or position held	1996 Professional appointment
Main activities and responsibilities	Appointed Research Project Referee for the following research contract: "Monitoring and control systems of the motorway traffic: elements of evaluation and integrated architectures", executed by CSST - Centro Studi sui Sistemi di Trasporto S.p.a., contract n° 96.00188.74
Name and address of employer	National Research Council – Special Project on Transportation Research
Type of business or sector	7, Piazzale Aldo Moro – 00185 Roma
Dates	Research
Occupation or position held	Since May, 1995 until December 1999
Main activities and responsibilities	Management and control of the contracts related to the research activities of the Special Project on Transportation 2 with particular reference to the researches related to the Sub-projet 1: Government of the mobility and tools for transport planning.
Name and address of employer	National Research Council – Special Project on Transportation Research
Type of business or sector	7, Piazzale Aldo Moro – 00185 Roma
Dates	Research
Occupation or position held	Since July 1994 yearly professional appointment
Main activities and responsibilities	Evaluation of environmental impact and comparative analysis of the methodologies proposed in literature and consequent orientation of the PFT2 research.
Name and address of employer	National Research Council – Special Project on Transportation Research
Type of business or sector	7, Piazzale Aldo Moro – 00185 Roma
Dates	Research
Occupation or position held	Since December 1992 yearly professional appointment
Main activities and responsibilities	Review and comparison of planning models and tools used by the transportation agency for the operation planning
Name and address of employer	National Research Council – Special Project on Transportation Research
Type of business or sector	7, Piazzale Aldo Moro – 00185 Roma
Dates	Research

<b>Dates</b>	Since September 1991 yearly professional appointment
<b>Occupation or position held</b>	Managerial Staff
<b>Main activities and responsibilities</b>	Review and comparison of evaluation methods of the customers services offer in terms of productivity and effectiveness related to the transport subsystems to several territorial level.
<b>Name and address of employer</b>	National Research Council – Special Project on Transportation Research 7, Piazzale Aldo Moro – 00185 Roma

**Type of business or sector** Research

## **Education and training**

<b>Dates</b>	Year 2002
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	on: "Building XML-Based Web Applications"
<b>Name and type of organisation providing education and training</b>	PCS srl. - Certified Technical Education Centres
<b>Level in national or international classification</b>	National
<b>Dates</b>	Year 2001
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	on: "MS Visual Basic 6.0 – Advanced Development of Desktop Application"
<b>Name and type of organisation providing education and training</b>	PCS srl. - Certified Technical Education Centres
<b>Level in national or international classification</b>	National
<b>Dates</b>	Year 2001
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	on: "Advanced Development of Interactive Web (ASP, JAVA Script, DHTML, and XML) "
<b>Name and type of organisation providing education and training</b>	PCS srl. - Certified Technical Education Centres
<b>Level in national or international classification</b>	National
<b>Dates</b>	Year 1998
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	on "Front Page '97"
<b>Name and type of organisation providing education and training</b>	PCS srl. - Certified Technical Education Center
<b>Level in national or international classification</b>	National
<b>Dates</b>	May 1998
<b>Title of qualification awarded</b>	International Educational course
<b>Principal subjects/Occupational</b>	Title: "Advanced Methods for Planning and Management of Transportation Networks"

<b>skills covered</b>	
<b>Name and type of organisation providing education and training</b>	Italian National Research Council PFT2 – Special Project on Transportation 2, University of Napoli "Federico II" e University of Roma "Tor Vergata"
<b>Level in national or international classification</b>	International
<b>Dates</b>	December 1997
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	Title: " Logistics of the production and the distribution"
<b>Name and type of organisation providing education and training</b>	AIRO - Italian Association of Operation Research and University of Ancona
<b>Level in national or international classification</b>	National
<b>Dates</b>	September 1996
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	Title: " Algorithms and optimization models"
<b>Name and type of organisation providing education and training</b>	AIRO - Italian Association of Operation Research, University of Ancona and University of Camerino
<b>Level in national or international classification</b>	National
<b>Dates</b>	December 1996
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	Title: " Logistics on computers for the production planning in the small and medium enterprises"
<b>Name and type of organisation providing education and training</b>	AIRO - Italian Association of Operation Research and University of Ancona
<b>Level in national or international classification</b>	National
<b>Dates</b>	Year 1995
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	On: "Updating course on Windows '95"
<b>Name and type of organisation providing education and training</b>	Book srl –Pisa - Certified Technical Education Centres
<b>Level in national or international classification</b>	National
<b>Dates</b>	Year 1995
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	On: "Updating course on CA Visual Object"
<b>Name and type of organisation providing education and training</b>	Metodi srl – Milano - Technical Education Centres and Software House
<b>Level in national or international classification</b>	National
<b>Dates</b>	Year 1995
<b>Title of qualification awarded</b>	Educational course
<b>Principal subjects/Occupational skills covered</b>	Title. "Intensive course on Operations Research"

Name and type of organisation providing education and training	Università di Venezia – Auronzo
Level in national or international classification	National
Dates	Year 1994/95
Title of qualification awarded	Educational course
Principal subjects/Occupational skills covered	English educational course (3rd level).
Name and type of organisation providing education and training	Istituto Accademia Britannica - International House
Level in national or international classification	National-International
Dates	Year 1994
Title of qualification awarded	Educational course
Principal subjects/Occupational skills covered	Title: "Multiattribute Analysis: methods, software, applications"
Name and type of organisation providing education and training	Politecnico di Milano
Level in national or international classification	National
Dates	Year 1993
Title of qualification awarded	Educational course
Principal subjects/Occupational skills covered	Title: "The administration of the public spending and the efficiency of the services: innovative methods of planning, design and management"
Name and type of organisation providing education and training	Institute of Systems Analysis and Computer Science of Italian National Research Council
Level in national or international classification	National
Dates	Year 1992
Title of qualification awarded	Educational course
Principal subjects/Occupational skills covered	Title: "Communications, transports and government of the mobility: models, methods and decisions support tools".
Name and type of organisation providing education and training	Institute of Systems Analysis and Computer Science of Italian National Research Council
Level in national or international classification	National
Dates	Year 1990
Title of qualification awarded	Qualification to the exercise of the engineer profession.
Principal subjects/Occupational skills covered	Engineer
Name and type of organisation providing education and training	University of Napoli "Federico II"
Level in national or international classification	National
Dates	May 1990
Title of qualification awarded	Confer a Master degree
Principal subjects/Occupational skills covered	Civil Engineering and Transportation
Name and type of organisation	University of Napoli "Federico II"

providing education and training

Level in national or international  
classification

National

**Personal skills and competences**

Mother tongue(s)

**Italian**

Other language(s)

*Self-assessment*

*European level (\*)*

**English**

<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>
Listening	Reading	Spoken interaction	Spoken production	
Good	Good	Good	Good	Good

*(\*) Common European Framework of Reference (CEF) level*

## Additional information

### Participation in European Project:

- FANTASIE Project (4FP/DGVII - Contract n° ST- 96-AM-1109)- Forecasting and Assessment of new Technologies and Systems and their impacts on the Environment - DGVII - 4th Framework Program.
- MAIN-E Project (5FP/Growth), Networked negotiation platform for manufacturing and logistics integrated planning and control in SME multi-enterprise environment (MAIN E), EEE Domain.
- E-MMEDIATE Project (5FP/IST), Electronic Managing of Product Manufacturing Engineering, Design and Investment Applying Information Technology for SMEs, EEE Domain.

### Project preparation to submit in the 7 Framework Program:

- JUMP Project (Call FP7-ICT-2009-6 Small or medium-scale focused research project -STREP- proposal), Joint Urban Mobility Platform.
- SECURBIKE Project (Call FP7-SME-2010-1 Activity 2.1 Research fore SMEs), Safe bike in sustainable multimodal adaptive mobility system.
- EACH-p Project (Call FP7-ICT-2011-7 Small or medium-scale focused research project -STREP- proposal), Environmentally Aware Coordinated Hyper Platform.
- CONNBIKE Project (Call FP7-SME-2011-1 Activity 2.1 Research fore SMEs), Connected bike system for a multimodal sustainable mobility approach.

### Participation in National Project:

- PILOT-ICT Project (FAR), "New integrated logistics frame work based on ICT and distributive decision system. Coordinated by TNT Logistics-S.p.A.
- TMP Project (CNR-GNDRCIE), "Risk Evaluation of hazardous materials transportation using techniques of multicriteria analysis. Research partners University di Roma "Tor Vergata" e Università di Roma "La Sapienza".

## Research Activity and Publication

### *Technical Reports (Italian language)*

[RT1] Carotenuto P., "Studio e confronto dei vari metodi di valutazione dell'offerta di servizi in termini di produttività ed efficacia applicabile ai sottosistemi di trasporto alle varie scale territoriali", Progetto Finalizzato Trasporti, Settembre 1992.

[RT2] Carotenuto P., "Rassegna e confronto di modelli e strumenti per la pianificazione utilizzati dalle aziende di trasporto per la definizione e la programmazione dell'esercizio", Progetto Finalizzato Trasporti, Dicembre 1993.

[RT3] Carotenuto P., "Valutazione di impatto ambientale e analisi comparativa delle metodologie proposte in letteratura e conseguente orientamento della ricerca del PFT2" Progetto Finalizzato Trasporti, Luglio 1995.

[RT4] Carotenuto P., Delle Site V., Mecco P., (1999). "Sistemi di supporto alle decisioni: i modelli multicriteriali", Appunti per il Seminario "Sistemi di supporto alle decisioni: Tecniche di analisi Multicriteriali" Corso "Principi e metodologie della progettazione meccanica" tenuto dal Prof. U. Pighini, Università di Roma "La Sapienza, Facoltà di Ingegneria, Maggio 1999.

[RT5] Carotenuto P., Cis C., Rismondo S., Storchi G., (2006), "Hybrid genetic algorithm to approach the DaRP in a demand responsive passenger service", Dipartimento Statistica, Probabilità, Statistica Applicata, Università degli Studi di Roma "La Sapienza" Rapporto Tecnico n.9, 2006

### *National Publication (Italian language)*

[A1] Bielli M., Carotenuto P., Delle Site V., Reverberi P., (1993). "La ricerca in Italia sulle interazioni trasporti/ambiente", ATS '93 "Automazione e sistemi di trasporto" Atti del Convegno, Trieste, 1993.

[A2] Carotenuto P. e Nuzzolo A., (1998). "Strumenti e metodi per la pianificazione", in Ricerca e futuro, n.7, marzo, 1998.

[A3] Bielli M., Caramia M., Carotenuto P., (1998). "An Advanced Heuristic For Bus Network Optimization", AIRO Annual Conference, Treviso, Italia, 23-25 Settembre, 1998.

[A4] Carotenuto P., Gastaldi M., La Bella A., Levialdi N., (1998). "Analisi delle prestazioni nelle aziende di trasporto pubblico mediante la data envelopment analysis", in Migliorare la qualità dei servizi per soddisfare le crescenti aspettative dei clienti, a cura di L. Negri, Atti del Convegno Internazionale, Collana Prometeo, Nuovo Studio Tecna, Roma 1998.

[A5] Bellei G., Cagnoli M., Carotenuto P., (2003). "Un approccio gerarchico al progetto di rete di trasporto collettivo", in Metodi e tecnologie dell'ingegneria dei trasporti Seminario 2001, a cura di Giulio E. Cantarella e Francesco Russo, Collana Trasporti, editore Franco Angeli, Milano, pp. 97-116, 2003.

[A6] Carotenuto P., Cis C., Rismondo S., Storchi G., (2007). "Un'architettura a due livelli per un servizio di trasporto a chiamata"- prima parte. MobilityLab, 16, 2007, pp 34-38.

[A7] Carotenuto P., Cis C., Rismondo S., Storchi G., (2007). "Un'architettura a due livelli per un servizio di trasporto a chiamata"- seconda parte. MobilityLab, 17, 2007, pp 33-35.

#### ***International Technical Reports***

- FANTASIE Project (4FP/DGVII - Contract n° ST- 96-AM-1109) - Forecasting and Assessment of new Technologies and Systems and their impacts on the Environment - DGVII - 4th Framework Program.

[RR1] Carotenuto P., Gentile C and Landolfi O., "Impact Assessment Tools – Assessment Category: Efficiency", Report in Deliverable 6 "Appraisal of Impact Evaluation Methods", FANTASIE Project, Directorate General for Transport (DGVII) of the European Commission, Contract n° ST- 96-AM-1109, 1997

[RR2] Carotenuto P., Delle Site P., Gentile C., Landolfi O. and Pascucci M., Deliverable D17 "Efficiency impacts and benefits of new transport systems", FANTASIE Project, Directorate General for Transport (DGVII) of the European Commission, Contract n° ST-96-AM-1109, 1999.

- MAIN-E Project (5FP/Growth -G1RD-CT-2000-00284) – Networked negotiation platform for manufacturing and logistics integrated planning and control in SME multi-enterprise environment - EEE Domain - GROWTH - 5th Framework Program

- E-MMEDIATE Project (5FP/IST-2001-35104) – Managing Electronic Product Manufacturing Engineering, Design and Investment Applying Information Technology for SMEs - EEE Domain - IST - 5th Framework Program

#### ***International Publication***

[B1] Bielli M., Carotenuto P., Gastaldi M., (1993). Multicriteria evaluation of integrated urban traffic management system, Actes de la deuxieme conference du groupe de travail euro sur la gestion du trafic et les transports, Actes Inrets n°38, Paris 1993.

[B2] Bielli M., Carotenuto P., Gastaldi M., (1994). Multicriteria evaluation model of public transport networks, Tristan II - Triennial Symposium on Transportation Analysis, CNR-PFT2, CNR-IASI, AIRO, Preprints Vol.I, Capri, Italy, 1994.

[B3] Carotenuto P., Delle Site V., Landolfi O., (1995). Comparative Analisys of Advanced Propulsion System for Electric Vehicles, presentato alla "7th World Conference on Transportatin Research", Sydney, Australia, 16-21 luglio 1995.

[B4] Bielli M., Carotenuto P., Delle Site V., Landolfi O., (1995). Multicriteria Analisys of Electric Propulsion System for Passenger Cars, proceedings of 3th

EURO Working Group on the Urban Traffic and Transportation, Barcellona, Spagna, 27-29 September, 1995.

[B5] Carotenuto P., Delle Site V., Landolfi O., (1995). Multicriteria Analysis of Electric Propulsion System for Passenger Cars, EVT '95 Proceedings, Parigi, 13-15 novembre 1995.

[B6] Bielli M., Carotenuto P., Gastaldi M., (1996). Multicriteria Analysis and Urban Decision Making: the evaluation of traffic networks, IFORS 96 Conference, Vancouver, Canada, July, 1996.

[B7] Bielli M., Carotenuto P., Gastaldi M., (1995). Multicriteria evaluation model of public transport networks, in Advanced Methods in Transportation Analysis, L. Bianco & P. Toth eds., Springer, Berlin, 1996.

[B8] Bielli M., Carotenuto P., Gentile C and Landolfi O., (1997). Technology Assessment Methods of Urban Transportation Systems, 5th Meeting of the EURO Working Group on Transportation, Budva, Yugoslavia, September, 1997

[B9] Carotenuto P., Coffari A., Gastaldi M., Levialdi N., (1997). "Analysing transportation public agencies performance using data envelopment analysis", IFAC Transportation Systems, Chania, Greece, p. 655-660, 1997.

[B10] Ambrosino G., Sassoli P., Bielli M., Carotenuto P., Romanazzo M., (1997). "A modeling framework for impact assessment of urban transportation systems", IFAC Transportation Systems, Chania, Greece, p. 989-993, 1997.

[B11] Bielli M., Carotenuto P., Delle Site V., (1997). "Advanced Research on Transport-environment interactions", IFAC Transportation Systems, Chania, Greece, p. 981-988, 1997.

[B12] Bielli M., Carotenuto P., (1998). Genetic Algorithms in Bus Network Design Optimization, proceedings TRISTAN III Conference, Portorico, giugno 1998.

[B13] Bielli M., Carotenuto P., (1998). A New Approach for Transport Network Design and Optimization, 38th ERSA Congress, Vienna, Agosto 1998.

[B14] Bielli M. Carotenuto P. and Gentile C., (1998). Application of technology forecasting methods to transportation systems 6th Meeting of the EURO Working Group on Transportation, Göteborg (Gothenburg), Sweden, 9 - 11 September 1998.

[B15] Carotenuto, P. Caramia M. and Confessore G., (1998). "An iterative scheme for bus networks optimization", 6th Meeting of the EURO Working Group on Transportation, Göteborg (Gothenburg), Sweden, 9 - 11 September 1998.

[B16] Bielli M., Carotenuto P. and Crisalli U., (1998). Trends in traffic and transportation systems modelling, 6th Meeting of the EURO Working Group on Transportation, Göteborg (Gothenburg), Sweden, 9 - 11 September 1998.

[B17] Bielli M., Carotenuto P., Delle Site V., (1998). "Transport and environment interactions: the Italian framework", Transp. Res. D, Vol. 3, n. 6, 389-397, 1998.

[B18] Caramia M., Carotenuto P., Confessore G., (1999). "Hybrid Heuristic Approaches for Bus Network Optimization: a comparison", 11th Mini-EURO Conference on "Artificial Intelligence in Transportation Systems and Science" and 7th EURO-Working Group Meeting on Transportation, Helsinki, Finland, 2 - 6 August 1999.

[B19] Ambrosino G., Sassoli P., Bielli M., Carotenuto P., Romanazzo M., (1999). "A modeling framework for impact assessment of urban transport systems", Transp. Res. D, Vol 4, n. 4, 73-79, 1999.

[B20] Bielli M., Carotenuto P., Roina A., (1999). The Italian Research on Energy Saving and Environment Protection Problems, Modeling and Management in Transportation Conference, Poznan and Cracow, Poland, 12-16 october 1999.

[B21] Carotenuto P., Galati G., Roina A., (1999). Advanced Video-Based

Surveillance Systems: Italian Research in the National Project on Transportation, Modeling and Management in Transportation Conference, Poznan and Cracow, Poland, 12-16 october 1999.

[B22] Bielli M., Carotenuto P., (1999). Software Tools for Decision Support Systems in Transportation: an Overview of the Italian Research, Modeling and Management in Transportation Conference, Poznan and Cracow, Poland, 12-16 october 1999.

[B23] Carotenuto P., Roina A., (2000). "Urban Transport and the Environment: Italian Case Studies", in URBAN TRASPORT V: Urban transport and the Environment for the 21st Century, L. J. Sucharov (Editor), WIT Press, Southampton, Boston, pp. 23-32, 2000

[B24] Bielli M., Carotenuto P., Confessore G. (2000). "New Hybrid Approach for Transport Network Design", in New Frontiers in Spatial Economics and Modelling, eds. A. Reggiani, Springer-Verlag, Berlin-Heidelberg, pp. 401-418, 2000.

[B25] Bellei G., Cagnoli M., Carotenuto P., (2000). "A multilevel approach to transit network design" in Bielli M., Carotenuto P. (eds.), Proceedings of the Rome Jubilee 2000 Conference "Improving knowledge and tools for transportation and logistics development", Faculty of Engineering, "La Sapienza" University of Rome, Rome, pp.279-289, 2000.

[B26] Bielli M., Carotenuto P., (2000). Proceedings of the Rome Jubilee 2000 Conference "Improving knowledge and tools for transportation and logistics development, Faculty of Engineering, "La Sapienza" University of Rome, Rome, Italy, 2000.

[B27] Bielli M., Carotenuto P., (2001). "Genetic algorithms and Transportation Analysis: Review and perspectives for Bus Network Optimization", in M. Gastaldi and A. Reggiani (eds.) New Analytical Advances in Transportation and Spatial Dynamics, Ashgate, Aldershot, pp. 21-34, 2001.

[B28] Avai A., Boer C.R., Carotenuto P., Confessore G. and Fornasiero R., (2001) "A performance indicators model for the supply chain", in K.S.Pawar and M.Muffatto (eds.) Logistics and the Digital Economy, Proceedings of the 6th International Symposium on Logistics (Univ. of Nottingham, UK), pp. 315 – 320, 2001.

[B29] Carotenuto P., Colarieti A., Confessore G. (2002). "Scheduling Hazardous Material Shipments", in Risk Analysis III, C.A.Brebbia (ed.) Management Information Systems series, WIT press, vol 5, pp. 277 – 286.

[B30] Avai A., Boer C.R., Carotenuto P., Confessore G. and Fornasiero R. (2002). "A decentralized performance measurement system for supply chain", in L.M. Camarinha-Matos (ed.) Collaborative business ecosystems and virtual enterprise, (Kluwer Academic publishers), 621 – 628, 2002.

[B31] Carotenuto P., Confessore G., Ferraro Petrillo U., (2002). "A Framework for the Integration of Decision Support Systems", in T.G. Crainic and B.Gavish (eds.) Proceedings of Fifth International Conference on Electronic Commerce Research ICECR-5 (CD-ROM), 2002.

[B32] Caramia M., Carotenuto P., Giordani S., Iovanella A., (2002). "Using Rejection Methods In a DSS for Production Strategies", in Proceedings of BASYS 2002 Conference, pp. 419-426, 2002.

[B33] Bielli M., Caramia M., Carotenuto P., (2002). Genetic Algorithms in Bus Network Optimization, in Transp. Res. C, 10, pp. 19-34, 2002.

[B34] Carotenuto P., Colarieti A., Confessore G., (2003). "An integrated model for the production distribution operational planning", in K.S.Pawar and M.Muffatto (eds.) Logistics and Networked Organisations, Proceedings of the 8th International Symposium on Logistics (Univ. of Nottingham, UK), 147 - 155, 2003.

[B35] Benedetti L., Carotenuto P., Fornasiero R., Zangiacomi A., (2003). "Approaching B2B for SMEs in the footwear sector", in K.S.Pawar and M.Muffatto (eds.) Logistics and Networked Organisations, Proceedings of the 8th

International Symposium on Logistics (Univ. of Nottingham, UK), 349 - 355, 2003.

[B36] Carotenuto P., Giordani S., Rismundo S., (2004). "A Tabu Search Approach for Scheduling Hazmat Shipments", in proceedings of Tristan V - Triennal Symposium on Transportation Analysis, Guadalupe (Francia), June 13-18, 2004.

[B37] Carotenuto P., Galiano G., Giordani G., Ricciarelli S., (2004). "Finding Spatially Dissimilar Paths for HazMat Shipments", in proceedings of Tristan V - Triennal Symposium on Transportation Analysis, Guadalupe (Francia), June 13-18, 2004.

[B38] Carotenuto P., Galiano G., Giordani S., (2004). "A Metaheuristic Approach for Hazardous Materials Transportation", in: D. Ahr et al. (eds.), Operations Research Proceedings 2003, Springer- Verlag, (2004), 119-126.

[B39] Carotenuto P., Galiano G., Giordani S., (2005). "Finding dissimilar efficient routes for HazMat shipment". Advanced OR and AI Methods in Transportation, Jaszkiewicz, A.; Kaczmarek, M.; Zak, J.; Kubiak, M. (Eds.), p. 347-352, Publishing Houser of Poznan University of Technology – Poznan, Poland, 2005.

[B40] Carotenuto P., Cis C., Rismundo S., Storchi G., (2006). "Hybrid genetic algorithm to approach the DaRP in a demand responsive passenger service". 12th IFAC Symposium on Information Control Problem in Manufacturing, Elsevier Science, ISBN: 978-0-08-044654-7, vol 39, Issue 3, pp.349-354, 2006.

[B41] Carotenuto P., Giordani S. and Ricciarelli S., (2007). "Finding Minimum and Equitable Risk Routes for HazMat Shipments". Computers & Operational Research, 34, 5, 2007, 1304-1327.

[B42] Carotenuto P., Giordani S., Ricciarelli S. and Rismundo S., (2007). "A Tabu Search Approach for Scheduling Hazmat Shipments". Computers & Operational Research, 34, 5, 2007, 1328-1350.

[B43] Carotenuto P., Galiano G., Giordani S. and Stecca G., (2008). "A Hybrid Meta-Heuristic Approach for Customer Service Level in the Vehicle Routing Problem With Time Windows", Proceedings of the XIV Latin Ibero-American Congress on Operations Research (CLAIO 2008), settembre 2008.

[B44] Carotenuto P., Cis C., Rismundo S. and Storchi G., (2009). "Innovative flexible services for people transportation". Proceedings of XIII Meeting of the EURO Working Group on Trasportation, Eds. R. Rossi, L. Della Lucia and M. Gastaldi, Padova University Press, Proceedingd CD, paper n.84, 2009. ISBN 978-88-903541-4-4.

[B45] Carotenuto P., Serebriany A., Storchi G., (2011). "Flexible services for people transportation: a simulation model in a discrete events environment". Proceeding of 14<sup>th</sup> EURO Working Group on Transportation Meeting, 26<sup>th</sup> Mini EURO Conference, 1<sup>st</sup> European Scientific Conference on Air Transport. Procedia - Social and Behavioral Sciences, vol. 20, 2011, pp. 846-855.

[B46] Baldassarre M., Carotenuto P., Raponi G., (2012). "Dynamic simulation of a flexible transport system", 14th IFAC Symposium on Information Control Problems in Manufacturing, INCOM 2012 Conference, Identifier 10.3182/20120523-3-RO-2023.00108, Part n. 1, Vo. 14, pp. 315-320.

[B47] Carotenuto P., Monacelli D., Raponi G., Turco M., (2012). "A dynamic simulation model of a flexible transport services for people in congested area". Proceeding of 15<sup>th</sup> EURO Working Group on Transportation Meeting. Procedia - Social and Behavioral Sciences, Elsevier, vol. 54, 2012, pp. 357-364. <http://dx.doi.org/10.1016/j.sbspro.2012.09.755>.

[B48] Carotenuto, P., Dell'Orco, M., Rossi, R., Ukovich, W., (2012). Introduction to the special issue. European Transport - Trasporti Europei, vol. 51.

[B49] Bruzzone, A.G., Frascio, M., Longo, F., Chiurco, A., Zanoni, S., Zavanella, L., Fadda, P., Fancello, G., Falcone, D., De Felice, F., Petrillo, A., Carotenuto, P., (2014). Disaster and emergency management simulation in

industrial plants. In 26th European Modeling and Simulation Symposium, EMSS 2014, pp. 649-656.

[B50] Carotenuto, P., Giordani, S., Zaccaro, A., (2014). A simulation based approach for evaluating the impact of maritime transport on the inventory levels of an oil supply chain. *Transportation Research Procedia*, 3, pp. 710-719. DOI: 10.1016/j.trpro.2014.10.050

[B51] Carotenuto, P., Paradisi, L., Storchi, G., (2014). A flexible transport service for passengers. *Transportation Research Procedia*, 3, pp. 442-451. DOI: 10.1016/j.trpro.2014.10.025

[B52] Carotenuto P., Paradisi L., (2014). "Testing a Heuristic for a Flexible Transport System", J. F. de Sousa and R. Rossi (eds.), Computer-based Modelling and Optimization in Transportation, Advances in Intelligent Systems and Computing, Springer International Publishing Switzerland, vol. 262, pp.345. ISBN 978-3-319-04629-7, DOI: 10.1007/978-3-319-04630-3\_25.

[B53] Carotenuto P., Giordani S., Massari S., Vagaggini F., (2015). "Periodic Capacitated Vehicle Routing for Retail Distribution of Fuel Oils". Proceedings of 18th Euro Working Group on Transportation, EWGT 2015, 14-16 July 2015, Delft, The Netherlands. *Transportation Research Procedia*, Vol.10, pp. 735-744. Doi:10.1016/j.trpro.2015.09.027.

[B54] Carotenuto, P., Baffo, I., De Felice, F, Petrillo, A., (2015). "An integrated decision support system to solve multi-criteria orienteering problem". Proceedings of 14th International Conference on Modeling and Applied Simulation, MAS 2015; Bergeggi; Italy; 21-23 September 2015. Eds: Frydman C., Massei M., Merkuryev Y., Solis A., Bruzzone A.G., De Felice F., Dime University of Genoa, 2015, pp. 148-154. Code 116846, ISBN: 978-889799950-8.

[B55] Baffo, I., Carotenuto, P., Storchi, G., (2015). "A genetic algorithm to design touristic routes in a Bike Sharing system". Proceedings of 14th International Conference on Modeling and Applied Simulation, MAS 2015; Bergeggi; Italy; 21-23 September 2015. Eds. Frydman C., Massei M., Merkuryev Y., Solis A., Bruzzone A.G., De Felice F., Dime University of Genoa, pp. 196-205. Code 116846, ISBN: 978-889799950-8.

[B56] Ianniello G., Piccarozzi M., Baffo I., Stecca G., and Carotenuto P., (2016). "A Collaborative Decisional System to Support a Business Model for the Development of Charging Infrastructure", in the Proceedings of the Working Conference on Virtual Enterprises PRO-VE 2016: Collaboration in a Hyperconnected World. IFIP Advances in Information and Communication Technology, vol. 480, pp. 569-578. DOI: 10.1007/978-3-319-45390-3\_48.

[B57] Baffo, I., Carotenuto, P., Petrillo, A., De Felice, F., (2016). Multi Attributes approach for tourist trips design. *CEUR Workshop Proceedings*, 1772, pp. 34-41.

[B58] Baffo, I., Carotenuto, P., Rondine, S., (2017). An orienteering-based approach to manage emergency situation. *Transportation Research Procedia*, 22, pp. 297-304. DOI: 10.1016/j.trpro.2017.03.036

[B59] Carotenuto, P., Giordani, S., Celani, D., (2017). Planning Retail Distribution of Fuel Oils. *Transportation Research Procedia*, 27, pp. 484-491. DOI: 10.1016/j.trpro.2017.12.017

[B60] Carotenuto, P., Martis, F., (2017). A double dynamic fast algorithm to solve multi-vehicle Dial a Ride Problem. *Transportation Research Procedia*, 27, pp. 632-639. DOI: 10.1016/j.trpro.2017.12.131

[B61] Carotenuto, P., Gastaldi, M., Giordani, S., Rossi, R., Rabachin, A., Salvatore, A., (2018). Comparison of various urban distribution systems supporting e-commerce. Point-to-point vs collection-point-based deliveries. *Transportation Research Procedia*, 30, pp. 188-196. DOI: 10.1016/j.trpro.2018.09.021

[B62] Carotenuto, P., Giordani, S., Massari, S., Vagaggini, F., (2018). A multi-

depot periodic vehicle routing model for petrol station replenishment. *Advances in Intelligent Systems and Computing*, 572, pp. 421-437. DOI: 10.1007/978-3-319-57105-8\_21

[B63] Bielli, M., Carotenuto, P., (2018). Genetic algorithms and transportation analysis: Review and perspectives for Bus Network Optimization. *New Analytical Advances in Transportation and Spatial Dynamics*, pp. 21-34.

[B64] Petrillo, A., Carotenuto, P., Baffo, I., De Felice, F., (2018). A web-based multiple criteria decision support system for evaluation analysis of carpooling. *Environment, Development and Sustainability*, 20 (5), pp. 2321-2341. DOI: 10.1007/s10668-017-9991-z

[B65] Carotenuto, P., Giordani, S., Salvatore, A., Biasini, A., (2019). Resource planning for aircraft refueling in airport parking area. *Transportation Research Procedia*, 37, pp. 250-257. DOI: 10.1016/j.trpro.2018.12.190.

[B66] Carotenuto, P., Giordani, S., Ponticelli, J., (2019). Avio-refueling process simulation in an airport environment. *18th International Conference on Modeling and Applied Simulation*, MAS 2019, pp. 84-91.

### ***International Activity***

- Member of the International Program Committee, 8th Meeting of the Euro Working Group on Transportation: "Rome Jubilee 2000 Conference", 11-14 September 2000, Rome, Italy.
- Member of the International Program Committee, 9th Meeting of the Euro Working Group on Transportation: "Intermodality, Sustainability and Intelligent Transportation Systems" conference, 10-13 June 2002, Bari, Italy.
- Member of the International Program Committee, 10th Metaheuristics International Conference (MIC 2013), 5th - 8th August, 2013, Singapore, Singapore.
- Member of the International Program Committee, 19th Meeting of the Euro Working Group on Transportation: "Simulation and Optimization of Traffic and Transportation Systems" conference, 5-7 September 2016, Istanbul, Turkey.
- Member of the International Program Committee, 20th Meeting of the Euro Working Group on Transportation: conference, 4th-6th September 2017, Budapest, Hungary.
- Member of the International Program Committee, 21st Meeting of the Euro Working Group on Transportation: conference, 17th-19th September 2018, Braunschweig, Germany.
- Member of the International Program Committee, 22nd Meeting of the Euro Working Group on Transportation: conference, 18th-20th September 2019, Barcellona, Spain.
- Member of the International Program Committee, 23rd Meeting of the Euro Working Group on Transportation: conference, 16th-18th September 2020, Paphos, Cyprus.
- Member of the International Program Committee, ODS 2020 International Conference on Optimization and Decision Science Roma, 8th-11th September 2020.
- Member of the International Program Committee, 24rd Meeting of the Euro Working Group on Transportation: conference, 8th-10th September 2021, Aveiro, Portugal.

- Member of the International Program Committee, ODS 2021 International Conference on Optimization and Decision Science Roma, 14th-17th September 2021.

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