

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **Bruglieri Maurizio**
Address [REDACTED]
Telephone [REDACTED]
Fax [REDACTED]
E-mail [REDACTED]
Nationality [REDACTED]
Date of birth [REDACTED]

WORK EXPERIENCE

- Dates (2005 – Present)
- Name and address of employer **Politecnico di Milano – Dept of Design**
Via Durando, 38/a
20156 Milano
+39. 02.2399.5906
University
Researcher (Assistant professor) Scientific Field MAT/09 (Operations Research)
Research and teaching activities
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

- Dates (2010 – Present)
- Name and address of employer **Politecnico di Milano – School of Industrial and Information technology Engineering – Bovisa campus**
Via La Masa, 34
20156 Milano
+39. 02.2399.8323
University
Professor
Professor of Operations Research course for Aeronautical Engineering. Graduate Degrees
Supervisor (Tutor and Co-tutor)
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

- Dates (2005 – Present)
- Name and address of employer **Politecnico di Milano – School of Industrial and Information technology Engineering – Piacenza campus**
Via La Masa, 34
20156 Milano
+39. 02.2399.6875
University
Professor
Professor of Operations Research course for Transport Engineering. Graduate Degrees
Supervisor (Tutor and Co-tutor)
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

- Dates (March 2011-February 2013)
 - Name and address of employer

Politecnico di Milano – Green Move Project
Via Durando, 38/a
20156 Milano
+39. 02.2399.5906
University
Research Consultant
Consultant for the optimization of an electric vehicle sharing service
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities

- Dates (2011-2012)
 - Name and address of employer

Politecnico di Milano – Convenzione Protezione Civile (National Civil Protection agreement)
Via Durando, 38/a
20156 Milano
+39. 02.2399.5906
University
Research Consultant
Consultant for the optimization of hazardous material transportation in tunnels
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities

- Dates (2010- 2011)
 - Name and address of employer

Politecnico di Milano – PoliUniPool Project
Via Durando, 38/a
20156 Milano
+39. 02.2399.5906
University
Research Consultant
Consultant for the optimization of the crews in an organized carpool service
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities

- Dates (2007-2009)
 - Name and address of employer

CEFRIEL – Politecnico di Milano
ICT Center of Excellence For Research, Innovation, Education & industrial Labs partnership
Via Fucini, 2 · 20133 Milano (Italy)
p. +39 02 2395 4245
Center of Excellence for Innovation, Research and Education
Research Consultant
Consultant for the optimization of the logistic of Waste of Electric and Electronics Equipment
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities

- Dates (2001 – 2005)
 - Name and address of employer

Politecnico di Milano – Faculty of Engineering - Dept of Electronics and Information Technology
Via Ponzio 34/5
20133 Milano
+39. 02.2399.3401
University
Temporary Research Associate
Research activities for vehicle routing problems arising in the optimization of separate waste collection
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities

EDUCATION AND TRAINING

- Dates (1998-2001)
 - Name and type of organisation providing education and training
Politecnico of Milan – Technical University
 - Principal subjects/occupational skills covered
Operations research: combinatorial optimization problems with cardinality constraints
 - Title of qualification awarded
PhD Applied Mathematics
 - Level in national classification (if appropriate)

- Dates (1997)
 - Name and type of organisation providing education and training
University of Camerino | Faculty of Sciences and Technology
 - Principal subjects/occupational skills covered
Inverse problems in mathematics physic
 - Title of qualification awarded
Master degree in Mathematics (110/110 cum laude)
 - Level in national classification (if appropriate)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

GOOD

GOOD

GOOD

FRENCH

- Reading skills
- Writing skills
- Verbal skills

GOOD

GOOD

GOOD

SOCIAL SKILLS AND COMPETENCES

I'm working with young people, mainly master degree students or temporary researcher: it is important for me to transmit them passion and enthusiasm.

ORGANISATIONAL SKILLS AND COMPETENCES

Distinguished and acknowledged experience in working within or leading multidisciplinary groups.
Involved in several research activities, his areas of investigation is Operations Research applied to the transportation and logistics fields.
Since 2001, he has been involved as investigator or principal investigator in a number of research projects, such as: Gesenu, DREAMS, PoliUniPool, Green Move.

OTHER SKILLS AND COMPETENCES.

ANNEXES

A1. Scientific activities: research experiences

A2. Publications, proceedings of international conferences and books

ANNEX1 _SCIENTIFIC ACTIVITIES: RESEARCH EXPERIENCES

2004-2013 Politecnico of Milan | Dept of Design

- **Scientific co-operation in the research project: "Green Move: setting up of a procedure to design and evaluate a ZEV sharing system for the city of Milan.** A project financed by Regione Lombardia that involves eight research centres of Politecnico di Milano. (2012-2013)
- **Scientific co-operation in the research project: "PoliUniPool"** (optimization of the crews in an organized carpool service)), partner Fondazione Politecnico di Milano. Research project financed by Politecnico di Milano and University of Milano.
- **Research Investigator - Project (PRIN 2005-2007) "Info-mobility systems and freight distribution in metropolitan areas",** Prof. P.Dell'Olmo - University of Rome "La Sapienza"

Research Interest

My areas of investigation is Operations Research applied to the transportation and logistics fields. Indeed, concerning transportation I dealt for instance with the following problems:

- optimization of vehicles for the separate waste collection (with a post-doc research grant at Politecnico of Milano)
- optimization of a dial-a-ride service (in the PRIN 2005-2007 project)
- reallocation of electric vehicles for a carsharing system (Green Move project)
- routing of hazmat
- train scheduling optimization.

Concerning logistics I dealt with:

- the optimization of the assignment of Waste Electric and Electronics Equipment (WEEE) collections points to the firms that produce such equipment
- the optimization of the running and planning of a biomass-based energy production process.

Annex 2. Publications, proceedings of international conferences and books

Publications on ISI journals

- [1] M. Bruglieri, P. Cappanera, M. Nonato, (2013). The Gateway Location Problem: Assessing the impact of candidate site selection policies. *Discrete Applied Mathematics*, forthcoming, doi: 10.1016/j.dam.2013.06.017.
- [2] M. Bruglieri, D. Ciccarelli, A. Colomi, A. Luè, (2011). PoliUniPool: a carpooling system for universities. *Procedia Social and Behavioral Sciences* 20 (2011) 558–567
- [3] R. Aringhieri, M. Bruglieri, and R. Cordone (2009). Optimal results and tight bounds for the maximum diversity problem. *Foundations of Computing and Decision Sciences*, 34(2):73-85.
- [4] Amaldi E., Bruglieri M., Casale G. (2008). A two-phase relaxation-based heuristic for the maximum feasible subsystem problem, *Computers & Operations Research* vol. 35. issue 5, pp.1465-1482, doi:10.1016/j.cor.2007.04.001
- [5] Bruglieri M., Liberti L. (2008) Optimal running and planning of a biomass-based energy production process. *Energy Policy*. Vol. 36 (7), pp. 2430-2438, special issue of ORMMES 2006, 19th Mini-Euro Conference, September 6-8, 2006, COIMBRA doi:10.1016/j.enpol.2008.01.009
- [6] Bruglieri M., Ehrgott M, Hamacher H.W, Maffioli F. (2006). An annotated bibliography of combinatorial optimization problems with fixed cardinality constraints. *Discrete Applied Mathematics*. vol. 154, pp. 1344-1357 ISSN: 0166-218X. doi:10.1016/j.dam.2005.05.036.
- [7] Bruglieri M., Maffioli, F, Trubian, M. (2006). Solving minimum k-cardinality cut problems in planar graphs. *Networks*. vol. 48, pp. 195-208 ISSN: 0028-3045.
- [8] R. Aringhieri, M. Bruglieri, F. Malucelli, M. Nonato (2004) An asymmetric vehicle routing problem arising in the collection and disposal of special waste. *Electronic Notes in Discrete Mathematics* 17: 41-47.
- [9] M. Bruglieri, F. Maffioli, M. Ehrgott. (2004). Cardinality constrained minimum cut problems: complexity and algorithms. *Discrete Applied Mathematics* 137 (3): 311-341.

Publications on books of scientific excellence and/or international diffusion

- [10] M. Bruglieri, P. Cappanera, A. Colomi, M. Nonato (2011). Modeling the Gateway Location Problem for Multicommodity Flow Rerouting. *Lecture Notes on Computer Science, Proceedings of INOC 2011, 13-16 June 2011, Hamburg (Germany)*: 262-276.
- [11] M. Bruglieri, P. Cappanera, A. Colomi, M. Nonato (2011). Modeling the Gateway Location Problem for Multicommodity Flow Rerouting. *Lecture Notes on Computer Science, Proceedings of INOC 2011, 13-16 June 2011, Hamburg (Germany)*: 262-276.
- [12] E. Amaldi, M. Bruglieri, B. Fortz (2011). On the Hazmat Transport Network Design Problem. *Lecture Notes on Computer Science, Proceedings of INOC 2011, 13-16 June 2011, Hamburg (Germany)*: 327-33.
- [13] Bruglieri M., Liberti L., (2009). *Optimally running a biomass-based energy production process*, in J. Kallrath, P. Pardalos, S. Rebennack (eds.), *Optimization in the Energy Industry*, Springer, 221-232.
- [14] Bruglieri M., Maja R., Marchionni G., Rainoldi G. (2008) *Hazardous material transportation safety: state of the art and emergent problems*. In C. Bersani, A. Boulmakoul, E. Garbolino, R. Sacile (eds.), *Advanced Technologies and Methodologies for Risk Management in the Global Transport of Dangerous Goods*, Vol. 45 of NATO Science for Peace and Security Series – E: Human and Societal Dynamics. ISBN: 978-1-58603-899-1
- [15] Bruglieri M., P. Maponi, M.C. Recchioni, F. Zirilli. (2009). *Differential equations and global optimization*. In C.A. Floudas and P.M. Pardalos (eds.), *Encyclopedia of Optimization 2009*. pp. 702-710. Springer.
- [16] Bruglieri M., Ciccarelli D., Colomi A., Luè A., (2008). Un software di supporto per l'organizzazione e l'ottimizzazione di un sistema di carpooling aziendale per l'area urbana di Milano. in A. Schiomachen and G. Felici (eds.), *Scienze delle decisioni in Italia: applicazioni*, Ecig, Genova (in italian).
- [17] Aringhieri R., Bruglieri M., Lorandi M., Malucelli F., Nonato M., (2005). Uno strumento di supporto alle decisioni per l'ottimizzazione della raccolta di rifiuti differenziati. In: Pier Luigi Paolillo. *Rendiconti Cremonesi - Il contributo del Politecnico di Milano alla conoscenza delle dinamiche evolutive nel territorio di Cremona*. (pp. 223-235). ISBN: 88-7090-821-6. CLUP, Milano (in italian).

Proceedings of international conferences

- [18] M. Bruglieri, D. Ciccarelli, A. Colorni, F. Lia, A. Luè, (2013). A multi-objective route planner: a real world application to Milano city. *Proceedings of EURO Conference, 1-4 July 2013, Rome (Italy)*.
- [19] M. Bruglieri, P. Cappanera, M. Nonato (2013). Hazmat Routing by Compulsory Checkpoints: a New Risk Mitigation Policy, *Proceedings of TRISTAN VIII Triennial Symposium on Transportation Analysis, 9-14 June 2013, San Pedro de Atachama (Chile)*, 1-5.
- [20] M. Bruglieri, A. Colorni, T. Davidovic, S. Roksandic (2012). A Matheuristic Approach for the University Carpooling Problem. *Proceedings of CTW 2012, 29-31 May 2012, Munich (Germany)*, 46-50.
- [21] E. Amaldi, M. Bruglieri, R. Maja, A. Laurita (2012). A Lagrangean Decomposition for Tunnel Interdiction in Hazmat Transportation, *Proceedings of Odysseus 2012, 5th International Workshop on Freight Transportation and Logistics, 21-25 May 2012, Mykonos (Greece)*, 1-4.
- [22] M. Bruglieri, P. Cappanera, M. Nonato (2011), The gateway location problem for hazardous material transportation. *Proceedings of CTW2011, Frascati 14-16 June 2011*: 88-92
- [23] M. Bruglieri, T. Davidovic, S. Roksandic, (2011) Optimization of trips to the university: a new algorithm for a carpooling service based on the Variable Neighborhood Search, *Proceedings of REACT2011, 16-17 May 2011, Belgrade (Serbia)*, 191-199, 2011.
- [24] M. Bruglieri, D.Ciccarelli, A. Colorni, A. Luè (2011). A Carpooling Service for Universities: A Case Study in Milan. *Proceedings of IFORS 2011 Conference for the International Federation of Operation Research, 10-15 July 2011, Melbourne (Australia)*, 90.
- [25] M. Bruglieri, A. Colorni, A. Luè (2010). A web-based carpooling service for universities: A Case Study in Milan. *Proceedings of EURO XXIV, 11-14 July 2010, Lisbon (Portugal)*, 241
- [26] M. Bruglieri, A. Colorni, A. Luè (2009). The Parking Warden Tour Problem. *Proceedings of CTW2009, 2-4 June 2009, Paris (France)*: 11-15
- [27] Bruglieri M., Lulli G., Romauch M., (2006). *Metaheuristics and SDP bounds to identify Gene Regulatory Networks*. Proceedings of Workshop on Networks in Computational Biology, Institute of Applied Mathematics, Middle East Technical University.
- [28] Aringhieri R., Bruglieri M., Davidovic T., and Nonato M., (2005). *A Variable Neighborhood Search for solving a real life waste collection problem*. In Proceedings of XVIII Mini EURO Conference on VNS, Tenerife (Spain).

Books

- [29] M.Bruglieri, A.Colorni, (2012). *Ricerca Operativa, Zanichelli*.