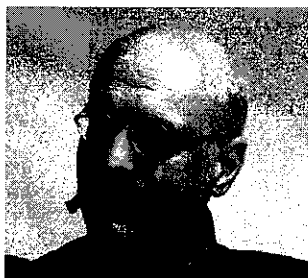


Europass curriculum vitae



Surname(s) / First name(s) **COLORNI VITALE Alberto**
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E-mail(s) [REDACTED]
Nationality(-ies) [REDACTED]
Date of birth [REDACTED]
Gender [REDACTED]

Occupation or position held Full professor of *Operations Research and Decision Models* at Politecnico di Milano
Main activities and responsibilities Didactic, Research, Organisation
Name and address of employer Politecnico di Milano (State University)

Recent work experience

Dates **2013 – now**
Occupation or position held • Deputy director of Design Dept.
Name and address of employer Politecnico di Milano
Type of business or sector The Department of Design was founded in 2013: it represents the natural evolution and enhances the cultural and scientific heritage of the Dept. INDACO (industrial design, arts, communication and fashion). The Department promotes and develops research and education in design in various fields, starting from the centrality of the person and the community, relate to the spaces in which they live, the objects with which they come into contact, the ways and means to communicate, to move, to consume, to produce tangible and intangible assets, to exploit and enhance cultural and environmental heritage, to innovate social relations.

Dates **2013 – now**
Occupation or position held • Member of the board of ASP – Alta Scuola Politecnica (<http://www.asp-poli.it>)
Name and address of employer Politecnico di Milano and Politecnico di Torino
Type of business or sector The Alta Scuola Politecnica (ASP) is a leading school for young talents with a passion for innovation, who wish to develop their potential in a multidisciplinary community. ASP selects 150 students per year, among the applicants to the Master of Science (Laurea Magistrale) programs in Engineering, Architecture and Design at Politecnico di Milano (PoliMi) and Politecnico di Torino (PoliTo). The ASP program runs parallel to the MSc programs of the two institutions. The official ASP language is English.

Dates 2002 – now
Occupation or position held President and scientific director (research, organization)
Name and address of employer Poliedra, Politecnico Centre of knowledge and research (<http://www.poliedra.polimi.it/>)
Type of business or sector Poliedra is a Consortium of Politecnico di Milano for design and implementation of decision support systems in transport, mobility and environment. Mainly in this context A. Colomi developed the applied research in multicriteria analysis, environment, sustainable mobility, intelligent transport systems.

Dates 2003 – 2011
Occupation or position held

- Delegate of the Rector for e-learning activities and didactical innovation
- President of METID centre, Politecnico di Milano

Name and address of employer Politecnico di Milano
Type of business or sector METID centre deals with design, development and delivery of e-learning projects, both in national and international context, integrating every design path with testing, monitoring, training activities and users tutoring and counselling support. The Centre offers video services to support events or communication initiatives, using its multimedia laboratory and recording studio. Since 2000, METID realizes the Online Degree in Computer Engineering, the first Italian Online Degree fully provided on the web. See the web site <http://www.metid.polimi.it>

Dates 2003 - 2007
Occupation or position held President until 2007 (now in the board)
Name and address of employer Sie-L (Società Italiana e-Learning)
Type of business or sector Sie-L is the Italian scientific e-learning association (see the web site <http://www.sie-l.it>).

Dates 2000 - 2005
Occupation or position held President of the board for the Online Degree in Computer Engineering (didactical organization)
Name and address of employer Politecnico di Milano
Type of business or sector The Computer Engineering online is an official degree of Politecnico: it was the first Italian totally online course, starting from 1999 as a cooperation between a public university (Politecnico) and a private editorial group (Repubblica-Espresso). Presently the online course enrolls approximately 350 students - mainly 30-35 years old - that work at distance (excluding the exams).

Education and training

Dates 1970
Title of qualification awarded Degree in Electronic Engineering
Name and type of organisation Politecnico di Milano
International level classification Second level degree

Personal skills and compet.

Mother tongue Italian

Self-assessment

European level ()*

English

Self-assessment

European level ()*

French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

Social skills and competences	Social relationship and communication
Organisation skills and competences	Development of strategies; management; organisation
Technical skills and competences	<i>Competences developed in different contents areas: see also additional information</i>
Artistic skills and competences	Music and theatre

Additional information

Born in 1946, married, 3 children, 5 grandchildren.

Alberto Colomi (AC), is full professor in MAT09 (Decision Models, Operations Research) at Politecnico di Milano (Dept. of Design). In 1970 graduated in Electronic Engineering. Since 1971 research fellow, subsequently lecturer, associate professor and (since 2001) full professor.

AC was teacher in all the three areas (engineering, architecture, design) and the three levels (L, LM, PhD) of Politecnico. He was president of the center METID (www.metid.polimi.it) and rector delegate for e-learning and didactical innovation. Now he is President and Scientific director of the consortium Poliedra.

During the last 10 years AC was president of the online degree in *Computer Engineering*, of the consortium *Multimedia Academic Press*, of the *Italian e-learning association (Sle-L)*, of the scientific committee of *MeglioMilano* (an association for the improvement of life quality). Currently he is part of the university *Mobility Manager*. AC was consultant or member of the boards of various public bodies: Ministry of Education, Ministry of Work, Lombardia Region, CNIPA, ISFOL and other public agencies. He taught in several universities, including the University of Paris-Dauphine in Paris (in 1996, 1997, 1998 he was visiting professor at LAMSADE, Université Paris-Dauphine, with a financial support of the Italian Research Council) and the Tongji University in Shanghai, as well as public institutions (CNIPA, SSPA, FORMEZ). In the past he directed numerous continuing education courses of Politecnico.

His research interests were different: combinatorial optimization (in particular algorithms derived by nature, such as the so-called Ant System), environmental themes (in particular environmental impact assessment), serious games and simulation, intelligent transport systems (like car sharing, car pool, dial-a-ride), decision support systems, multimedia and training (in particular, systems of e-learning and e-collaboration). On these topics AC has written about 200 papers of research and dissemination (on the site *Publish or Perish* there are the 60 most important, the h-index of AC is 18).

AC was editor of 4OR (an European journal of Operational Research) and Je-LKS (the Journal of e-Learning and Knowledge Society). He managed several research projects, particularly in the areas of intelligent transport, infomobility and e-learning. In 1999 he organized the congress of the European working group MCDA (Multi Criteria Decision Aid). He is member of the PhD board in Design, teaches courses in *Operations Research*, *Models for Decisions*, *Intelligent Transport Systems*

Here there is a set of initiatives that AC has created or helped to create.

- In 1988 the development of Prontobus, the first Italian dial-a-ride system, still active in Val Nure (<http://www.tempi.piacenza.it/prontobus/prontobus.asp>); the project received Philip Morris Prize.
- In 1992 the publication, with two PhD students, of the first work on the Ant System, thus giving rise to a research area (http://en.wikipedia.org/wiki/Ant_colony_optimization).
- In 1993 the first teledidactic course of Politecnico, between Milan and Como.
- In 1994 the coordination of the first Italian manual of Environmental Impact Assessment.
- In 1996 the foundation of METID centre (<http://www.metid.polimi.it>).
- In 1998 the publication of the first Italian cd-rom in Operations Research, with a series of games to support teaching (the product was finalist for the 1999 Prix Moebius).
- In 2000 the coordination of the first Italian online course, the degree in Computer Engineering.
- In 2001, for the work with METID, Colomi won the Cenacolo award in Publishing and Innovation.
- In 2003 the foundation of Sle-L (the Italian Society of e-Learning, <http://www.sie-l.it>), of which he was president between 2004 and 2007.
- In 2004, for the activities of METID, Politecnico has been rated as one of the 8 best practices among European universities in terms of e-learning.
- In 2010 he developed the first Italia University car-pool

He has coordinated a lot of Italian and European projects in the areas of e-learning, optimization and transport.

- UE – Development of a road-pricing system for the urban mobility regulation in Como
- UE - AIUTO (Assessment of Innovative Urban Transport systems and policy Options)
- UE – REFLEX (REversible and FLEXible measures for transport management)
- UE – Teleregions, a didactical distributed environment for multimedia learning
- UE – SUN2: teledidactics and applications, a common platform
- UE – VIMIMS: the Virtual Institute Modelling of Industrial Manufacturing Systems
- UE (Socrates Programme) – COREL: COnnecting REgions for E-Learning
- UE – Elene-TT: E-learning Network of Excellence, Teacher Training

- UE – Elene-EE: E-learning Network of Excellence, Economics of E-learning
- UE – SLOOP: Sharing Learning Objects in an Open Perspective
- UE – REFOCUS: Senoir employees training on ICT
- MURST (Italian Min.) – Deterministic & stochastic algorithms in combinatorial optimization
- MURST (Italian Min.) – Methods for system & technology optimization (unit of Milan)
- MIUR (Italian Min.) – Infomobility and transport urban systems (unit of Milan)
- Environment It. Min. – Methods and software for Environment Impact Assessment (EIA)
- Environment It. Min. – Electric vehicle project: the assessment phase
- Italian Min. of Justice – AURORA, a learning path for young people in jail
- Lombardia region – An expert system for Environment Impact Assessment (EIA)
- Lombardia region – The e-learning platform for on line IFTS courses in Lombardia
- Lombardia region – SIMPLE, a web support to regional projects for young people
- CNR (Transport project 1 & 2) – Innovative transport systems: models and software
- CNR – Dial-a-ride services: models and algorithms (unit of Milan)
- City of Milan – A door-to-door dial-a-ride service: the planning phase
- City of Milan – DREAMS: a platform for the management of innovative transports
- City of Como – MTV: a feasibility study for the metroway in Como
- City of Como – GioCoMo: a web based game for the participation (in connection with MTV project)
- Provincia di Bologna – The SIMT project (Sistema Informativo Mobilità e Trasporti)
- Politecnico di Milano – The online degree in Computer Engineering (starting from 2000-01)
- Politecnico di Milano – COL, the web enhanced system for didactical support
- Politecnico di Milano – University Explorer, a web based game for the student
- Politecnico di Milano – IAOL, Italy-China shared system for interior architecture learning
- Cefriel (univ. consortium) – RAEE, models for electric and electronic refuse wastes
- MeglioMilano – Quality of life in Milan, annual observatory (editions 1993-1999)
- City of Milan – A feasibility study for hazardous material control and management
- ANEE – Guidelines for assessment of the CD-rom didactical quality
- ANEE – E-learning observatory (editions 2003, 2004, 2005, 2006)

Recent publications

2013

- M.Bruglieri, D.Ciccarelli, A.Colomi, 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)*.
- A.Colomi, A. Luè, R.Nocerino (2013). Cognitive mapping for decision aiding: an application to the design of a vehicle sharing service, *Proceedings of EURO Conference, 1-4 July 2013, Rome (Italy)*.
- A.Luè, A.Colomi (2013). A multicriteria spatial decision support system for hazardous material transport. In R. Bisdorff et al editors, *Evaluation and Decision Models with Multiple Criteria: Case Studies. Springer series "International Handbooks on Information Systems" (to appear)*
- A.Luè, A.Colomi (2013). Conflict analysis for environmental impact assessment: a case study of a transportation system in a tourist area. *Group Decision and Negotiation. (to appear)*

2012

- Ciccarelli D., Colomi A., Luè A., Nocerino R., Paruscio V. (2012). Green Move: an innovative electric vehicle sharing system, Transport Research Arena, Athens, 23-26 April.
- Yeldan Ö., Colomi A., Luè A., Rodaro E. (2012). A stochastic continuous cellular automata traffic flow model with a multi-agent fuzzy system, 15th meeting of the Euro Working Group on Transportation. Cité Descartes, 10-13 September.
- Colomi A., Luè A. (2012). Decision aid for design problems. In L. Rampino (ed.) *Design Research: Between Scientific Method and Project Praxis. Notes on Doctoral Research in Design 2012*. FrancoAngeli, Milano, 2012.
- Arena M., Azzone G., Colomi A., Conte A., Luè A., Paruscio V. (2012). Innovative configurations for electric vehicle sharing services, 19th Intelligent Transport Systems World Congress, Vienna, Austria, 22-26 October.
- M.Bruglieri, A.Colomi, 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.

2011

- M.Bruglieri, D.Ciccarelli, A.Colomi, A.Luè, (2011). PoliUniPool: a carpooling system for universities. *Procedia Social and Behavioral Sciences* 20 (2011) 558–567
- M.Bruglieri, D.Ciccarelli, A.Colomi, 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.
- Bresciani C., Colomi A., Lia F., Luè A., Whitmarsh L., Xenias D., Anoyrkati E., Radmilović Z, Maras V. (2011). Future research priorities for climate friendly transport: agenda creation, consultation and results analysis, *Proceedings of REACT2011, 16-17 May 2011, Belgrade (Serbia)*, 1-10.
- Ciccarelli D., Colomi A., Luè A., Nocerino R., Paruscio V. (2011). Green Move: setting up of a procedure to design and evaluate a ZEV sharing

system for the city of Milan, *Proceedings of REACT2011, 16-17 May 2011, Belgrade (Serbia)*, 200-205.

2010

- Bresciani C., Colomi A., Lia F., Luè A. (2011). Setting up of a European Strategic Research Agenda on climate-friendly transport. *Forum on Integrated Sustainable Transportation Systems. Vienna, 29 June – 1 July*.
- Colomi, A. Luè, (2010). "The quality of life in Milano: a rating analysis", *24th European Conference on Operational Research. Lisbona, Portogallo, 11-14 luglio 2010*.
- M.Bruglieri, A.Colomi, 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.

2009

- M.Bruglieri, A.Colomi, A.Luè, (2009). The Parking Warden Tour Problem. *Proceedings of CTW2009, 2-4 June 2009, Paris (France)*: 11-15
- Luè, A. Colomi, (2009). "A software tool for commute carpooling: a case study on university students in Milan", *International Journal of Services Sciences, Volume 2 - Issue 3/4*.
- Luè, A. Colomi, (2009). "Group decision support systems: a method based on Electre III". In G. Rabino and M. Cagliani (editors), *Planning, complexity and new ICT, Alinea, Firenze, 2009*.
- Luè, A. Colomi, "Definition and assessment of mobility management measures for Politecnico di Milano", XIII EURO Working Group on Transportation Meeting. Padova, 23-25 settembre 2009.
- D. Ciccarelli, A. Colomi, A. Luè, R. Nocerino, (2009). "A real-time information system for public transportation in case of un-expected events, delays and service interruptions" *XL Annual conference of the Italian operational research society. Siena, 8-11 settembre 2009*.

Some previous publications

- A. Colomi, R. Woffler Calvo, "Solving the on-line Dial-a-Ride Problem", *Transportation Science* (to appear), 2008
- A. Luè, D. Ciccarelli, A. Colomi, "A GIS-based multi-objective travel planner for hazardous material transport in the urban area of Milan", *NATO Sciences* (to appear), 2008.
- A. Colomi, A. Luè, "Conflict analysis for environmental impact assessment: a case study of a transportation system in a tourist area", *Group Decision and Negotiation* (to appear), 2008.
- R. Woffler Calvo, A. Colomi, "An effective fast heuristic for the Dial-a-ride problem", *4OR: a quarterly journal of Operations research*, Vol. 5, n. 1 (pp. 61-73), 2007.
- A. Colomi, "Benefits and problems of e-learning", UE Committee on Culture Science and Education: realising the full potential of e-learning at all levels of education, A. Fischer (ed.), UE Conference, Strasbourg, October 2007, available at http://assembly.coe.int/Main.asp?link=http://assembly.coe.int/Conferences/2007elearning/Writtencontributions_E.htm
- A. Campiotti, D. Ciccarelli, A. Colomi, A. Luè, "A route planner for hazardous material transportation in Milan, Italy", *Transportation and Logistics Integrated Systems International Conference, Cracow, 2007*.
- I. Blecic, A. Cecchini, A. Colomi, "University Explorer: a web-based role-play game for university orientation", *Learning with Games International Workshop* (pp. 337-342), Sophia Antipolis, 2007.
- I. Blecic, A. Cecchini, A. Colomi, *StraDe: a web-based role-play game for strategic planning*, *Learning with Games International Workshop* (pp. 17-24), Sophia Antipolis, 2007.
- D. Ciccarelli, A. Colomi, A. Luè, "A GIS-based travel planner for hazardous material transportation", 38th annual conference of the Italian Operations Research Society, Genova, 2007.
- A. Bosio, M. Bruglieri, D. Ciccarelli, A. Colomi, A. Luè, G. Righini, "An optimization algorithm for a dial-a-ride system", 38th annual conference of the Italian Operations Research Society, Genova, 2007.
- A. Colomi, "KIWI, Knowledge Interaction Web Instruction", Politecnico di Milano, 2006.
- D. Ciccarelli, A. Colomi, A. Luè, V. Morrocchi, D. Rossi, R. Woffler Calvo, "An integrated information and management system for traditional and demand-responsive mobility services in the city of Milan", 11th EWGT Meeting of the EURO Working Group on Transportation, Bari, 2006.
- D. Ciccarelli, A. Colomi, A. Luè, V. Morrocchi, "A web-based software tool for the management of commuters car pooling in the Milan area", 11th EWGT Meeting of the EURO Working Group on transportation, Bari, 2006.
- M. Bruglieri, A. Colomi, A. Cappiello, D. Ciccarelli, A. Luè, V. Morrocchi, "Analysis and planning of a dial-a-ride system in Milan", 37th annual conference of the Italian Operations Research Society, Cesena, 2006.
- D. Ciccarelli, A. Colomi, A. Luè, D. Rossi, "An Integrated Information and Management System for Traditional and Demand-Responsive Mobility Services in the City of Milan, Italy", *TRB 85th Annual Meeting*, Washington DC, 2006.
- D. Ciccarelli, A. Colomi, A. Luè, V. Morrocchi, D. Rossi, "DREAMS: modal integration for innovative transport systems" (in Italian), in A. Cecchini and A. Plaisant (eds) *Analisi e modelli per la pianificazione: teoria e pratica*, Franco Angeli, 2005.
- D. Ciccarelli, A. Colomi, A. Luè, V. Morrocchi, D. Rossi, "A multicriteria approach for the assessment of the alternatives for the metroway in Como" (in Italian), in A. Cecchini and A. Plaisant (eds) *Analisi e modelli per la pianificazione: teoria e pratica*, Franco Angeli, 2005.
- A. Colomi, D. Ciccarelli, A. Luè, V. Morrocchi, D. Rossi, "DREAMS: an integrated information management system for traditional and innovative mobility services in Milan, Italy", 10th EWGT Meeting and 16th Mini-EURO Conference, Poznan, 2005.
- A. Colomi, M. Pegoraro, R. G. Mangione, "E-Learning in Italy: Higher Education and Surroundings", in U. Dittler, H Kahler, M. Kindt, C. Schwarz (eds) *E-Learning in Europe, Learning Europe*, Waxmann, 2005.
- A. Colomi, "From learning objects to learning objectives" (in Italian), *Journal of e-Learning and Knowledge Society*, Vol.1, n.1 (pp. 15-35), 2005.
- A. Colomi, "Interview on e-learning" (in Italian), *Quaderni di Management*, n.1, 2004.
- R. Woffler Calvo, A. Colomi, A granular tabu search for the Dial-a-Ride Problem, *Optimization 2004*, Lisbon, 2004.
- A. Luè, A. Colomi, M. Montanani, "Multicriteria support to negotiation: a conflict analysis applied to the environmental impact assessment of a transportation system", *EURO/INFORMS Joint International Meeting*, Istanbul, 2004.
- A. Colomi, et al., *Vimims – Virtual Institute for the Modelling of Industrial Manufacturing Systems*, IFIP workshop on Performance Measurement, Hannover, 2004.
- A. Colomi, D. Ciccarelli, A. Luè, D. Rossi, "A decision support system to evaluate transportation systems: a tramway case study in Como", *International conference on Sustainable Urban Infrastructure: approaches, solutions, networking*, Trento, 2003.

- A. Colomi et al., VIMIMS: integration of online and face to face learning in an international platform for teaching and research, IFIP World Computer Congress, Montreal, 2003.
- A. Colomi, P. Della Vigna, R. Negrini, "Www.laureaonline.it, the Online Bachelor Programme in Computer Engineering at Politecnico di Milano", International Conference on Simulation and Multimedia in Engineering Education. San Antonio, 2002.
- A. Colomi, E. Laniado, S. Muratori, "Procedure and software tools for EIA communication" (in Italian), in E. Borgia (ed) Studi di impatto ambientale nel settore dei trasporti, Poligrafico dello Stato, 2002.
- A. Colomi, V. Morrocchi, D. Rossi, "Sustainable mobility: innovation in urban transport" (in Italian), in Ecosistemi urbani, Accademia Nazionale dei Lincei, Roma, 2002.
- A. Colomi, V. Morrocchi, "Mobility management actions" (in Italian), in L. Senn and M. Ravasio (eds) Mobility management: strategie di gestione della mobilità urbana, Egea, Milano, 2002.
- A. Colomi, G. Righini, "Modeling and optimizing dynamic dial-a-ride problems", International Transactions in Operational Research, Vol. 8 (pp. 155-166), 2001.
- A. Colomi, M. Paruccini, B. Roy (eds.), "MCDA: Multiple Criteria Decision Aiding", JRC Joint Research Center, European Commission, 2001.
- A. Colomi, A. Tsoukiàs (eds.), "MCDA – Aide Multicritère à la Décision", EURO, the association of European Operational Research Societies, CD-rom, 2001.
- A. Colomi, E. Laniado, S. Muratori, "Decision support systems for environmental impact assessment of transport infrastructures", Transportation Research, Part D: Transport and Environment, Vol. 4D-1 (pp. 1-11), 2000.
- A. Colomi, E. Laniado, S. Muratori, "Communication, participation and decision support systems in Environment Impact Assessment (in Italian), 4th national Congress of PFT-2, Rome, 2000.
- A. Colomi, M.S. Catalano, E. Laniado, G. Stagni, "Models, algorithms & software for planning and managing innovative transport systems", 4th national Congress of PFT-2, Rome, 2000.