



PERSONAL INFORMATION



Guglielmina Mutani

 Breuil-Cervinia, 11021 Valtourmenche (AO), Italy
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https://www.researchgate.net/profile/Guglielmina_Mutani
<https://www.linkedin.com/in/guglielmina-mutani-48648a1b/>

Sex Female | Date of birth 05/01/1968 | Nationality Italian

Family Two children: Allegra and Leonardo

WORK EXPERIENCE

From 2019

Responsible Risk Resilience Centre (R3C), Politecnico di Torino

Scientific Board Member http://www.r3c.polito.it/about_us/r3c_governance

From 2018/2019

School of Planning and Design, Politecnico di Torino

Traineeship Academic Advisor for Environmental and Engineering related themes:
<https://didattica.polito.it/laurea/pianificazione/en/contacts>

From 2003

Doctoral school

- Member of "Urban and Regional Development" (URD) Ph.D. Program at Politecnico di Torino (additional member from 2016 and member from 2019)
- Extern examiner V10334047 in 2019, approved by the Academic Council Committee on Examinations, for the Ph.D. research degree examination of Giovanni Tardioli in the University College of Dublin – UCD.
- Lessons in: "Decision processes for districts' energy transition" code 01RNYRS & "Decision processes for urban districts energy transition" code 01SDFRS (2017-18-19) – URD Ph.D. Program
- Lesson in: "Road Safety" - Civil and Environmental Engineering Ph.D. Program (2012-13)
- Member of "Industrial Safety and Risk Analysis" Ph.D. Program at Politecnico di Torino (2003-04)

Tutor

- Co-tutor of Sara Torabi Moghadam, Ph.D. Student of XXX cycle in Urban and Regional Development, Politecnico di Torino with prof. Patrizia Lombardi
- Tutor of Valeria Todeschi, Ph.D. Student of XXXIV cycle in Energetics, FULL, Politecnico di Torino
- Tutor of Silvia Santantonio, Ph.D. Student of XXXVI cycle in Energetics, Politecnico di Torino
- Tutor of Simone Beltramino, Ph.D. Student of XXXVI cycle in Urban and Regional Development, R3C, Politecnico di Torino

2016/2017
2013/2014
2009/2010

Communication project and public involvement in the university sector: "Scienza Attiva. I giovani e la scienza partecipata - Young people and involving science"

Agorà Scienza <http://agorascienza.it/index.php/it/i-progetti/scienza-attiva/2016-2017>

Business or sector Expert person on energy technologies and energy savings:

http://www.agorascienza.it/application/files/5815/1187/2753/EfficienzaRisparmioEn_Mutani-ENEA.pdf

http://www.agorascienza.it/application/files/8614/9908/8298/A_en_storia_e_cenni_risparmio_Mutani.pdf

http://www.agorascienza.it/application/files/6614/9908/8300/B_en_risparmio_generale_Mutani.pdf

Libro: http://www.agorascienza.it/application/files/5815/1187/2753/EfficienzaRisparmioEn_Mutani-ENEA.pdf

2011/2012

Web-Based Didactics: "Impianti energetici per l'edilizia" & "Certificazione Energetica in Edilizia"

International Telematic University UNINETTUNO

<http://www.uninettuno.it/it/CyberspazioMateria.aspx?if=it&courseid=3835°ree=153&planid=294&faculty=3>

<http://www.uninettunouniversity.net/CyberspazioMateria.aspx?faculty=°ree=162&planid=160&courseid=3911&lf=it>

From 2010

Buildings' Energy audit and Sustainable Energy Action Plan (SEAP)

Provincia di Torino, Comune di Rivalta di Torino (TO), Comune di Leini (TO), Comune di Moncalieri (TO), Comune di Valtourmenche (AO)

Business or sector Buildings' Energy Audit

From 2008

Buildings' Energy Performance Certifier

for the following Italian Regions: Lombardia, Piemonte and Valle d'Aosta

Business or sector Energy Performance Certification of Buildings

From 2006

Professional training and education

Ordine degli Ingegneri della Provincia di Torino, Ordine degli Architetti della Provincia di Torino, Agorà Scienza-Scienza Attiva, Edicom, Life Cycle Engineering srl, Sybill srl, Forte Chance Piemonte

Business or sector Energy efficiency and environmental impact of buildings and regulations

2006

Consultant

CSI Piemonte

Business or sector Industrial risk

2001-2007

Founder and consultant of the spin-off Onleco s.r.l.

- ONLECO s.r.l.
Business or sector Energy system analysis and environmental monitoring
- 2000 **Professional training and education**
 Regione Piemonte
- From 1999 **Consultant**
Business or sector Fire engineering and people risk analysis
- From 1999 **Assistant Professor and Researcher in Building Physics and Energy Systems (Settore Scientifico Disciplinare ING-IND/11) at Politecnico di Torino**
 Politecnico di Torino 24, corso Duca degli Abruzzi, 10129, Turin, Italy - with the following courses (https://didattica.polito.it/pls/portal30/sviluppo.doc.attivita_per_anni?matricola=2769):
 From 2001/02: Building Physics (L-17)
 From 2002/03: Elements of Building Physics and Urban Planning (L-21)
 From 2008/09: Workshop on Energy Performance Certification of Buildings (LM-4)
 From 2012/13: Energy Challenges and Environmental Sustainability (LM-48)
 From 2012/13: Energy Efficiency of the Built Environment (L-21)
 From 2021/22 Atelier: Post-carbon sustainable communities (LM-91 <https://www.unito.it/ugov/degree/39572>)
Business or sector Teaching and research in the fields of Building Physics, Lighting, Acoustics, IAQ
- 1998-1999 **Attends the course "Work Safety in Construction Sites - Sicurezza sul lavoro nei cantieri" for 120 hours (D. Lgs 494/96, DGR 79-16746/1997 e DGR 9-24386/1998)**
 Comitato Paritetico Territoriale per la Prevenzione infortuni, l'igiene e l'ambiente di lavoro di Torino e Provincia
- 1997-1998 **Teacher Assistant in Buildings Physics at Politecnico di Torino**
 Politecnico di Torino - 24, corso Duca degli Abruzzi, 10129, Turin, Italy
Business or sector Assistant in Building Physics, Lighting, Acoustics, IAQ
- 1996-1998 **Consultant**
 Free lance
Business or sector Fire safety and smoke movement in confined spaces

EDUCATION AND TRAINING

- 1997-98 **Research grant in Fire Engineering and Smoke Movement in Confined Spaces**
 One-year research grant (and renewal for a further year) funded by the Piedmont Region - Civil Protection Service attributed with D.R. n. 634 of 7/9/1997 for research activities on: "Guidelines for emergency plans for civil, commercial, cultural, health and industrial buildings".
- July 22nd 1997 **Ph.D. in Energetics IX cycle at Department of Energy, Politecnico di Torino**
 Ph.D. defence at University of Ancona with the jury made up of professors: P. Anglesio, P. Di Filippo and A. Carotenuto.
- 1993-94 **State examination exam for engineers and registration in the professional register of engineers "Ordine degli Ingegneri della Provincia di Torino"**
 Enrollment in the professional register of engineers since 6/7/1994 under no. 6700 R
- July 20th 1993 **Master Degree in Civil Engineering**
 Politecnico di Torino
 The Thesis has been awarded by Piedmont Region with D.D. 11/11/1997 and published on BURP n.6 11/2/1998
- 1986 **Scientific Lyceum Diploma**
 Liceo Scientifico Ettore Majorana - Moncalieri (Turin), Italy
- 1984 **Four months of high school**
 Stratford (Toronto, Canada) with Intercultura organization

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

Italian		SPEAKING		WRITING
UNDERSTANDING		Spoken interaction	Spoken production	
Listening	Reading			
Very good	Good	Very good	Good	Good

Communication skills

Organisational / managerial skills

Job-related skills

Good communication skills gained working in research projects and participating at conferences.
 Reference person for the Department of Energy in the Bachelor and Master of Science "Territorial, Urban, Environmental and Landscape Planning" at Politecnico di Torino and member in the academic board of Urban and Regional Development Ph.D. Program.
 Design of sustainable buildings, energy modelling and renewable energy technologies.

Computer skills

Evaluation of energy performance of buildings at building, district, urban and territorial scale.
 Measurement and analysis of thermal comfort in indoor and outdoor environments.
 Knowledge of typical Operating Systems and Office (Word ©, Excel ©, ecc.) software.
 Use of TRNSYS, ArcGIS, ECOTECT, Termolog, Dialux and other commercial software.
 Experience with Fortran, Turbo Pascal and Visual Basic languages.

Other skills

I like to travel, to listen live music and I love sports; in particular, volleyball and downhill ski.

Driving licence

B

ADDITIONAL INFORMATION

Personal skills and competences

Guglielmina Mutani is graduated in Civil Engineer, PhD in Energetics and Assistant Professor in Building Physics and Energy Systems at the Department of Energy at Politecnico di Torino (Italy). From 1998, she teaches at Politecnico di Torino about Building Physics (ING-IND/11 SSD). The first field of research was on air and smoke movement in confined spaces and to safety problems in emergency conditions. From the end of '90, her research is on energy consumption models at building and urban scale, energy performance certification of buildings, energy savings interventions, renewable energy technologies and indoor/outdoor thermal comfort analyses.

She is in the **Editorial Board** of the following journals:

- "Sustainability" Special Issue on Models and Tools for Buildings' Energy-Use Mapping and Planning at Urban Scale, MDPI Ed. (https://www.mdpi.com/journal/sustainability/special_issues/energy_use)
- "Instrumentation Measure Metrologie" (I2M), is an international open access and peer-reviewed journal on the latest scientific and technical developments in instrumentation, measurement and metrology edited by IETA (<http://www.ieta.org/Journals/I2M>).
- "Tecnica Italiana-Italian Journal of Engineering Science" (TI-IJES), an open access and peer-reviewed journal edited by IETA (www.ieta.org/Journals/TI-IJES).
- "International Journal of Economy, Energy and Environment" (IJEEE) an open access and peer-reviewed journal edited by Science Publishing Group, USA (<http://www.ij3e.org/editorialboard>).

She is a **Reviewer** of the following scientific Journals:

- "Applied Energy" edited by Elsevier (<https://ees.elsevier.com/apen/>)
- "Journal of Cleaner Production" edited by Elsevier (<https://www.journals.elsevier.com/journal-of-cleaner-production/>).
- "Sustainable Cities and Society" edited by Elsevier (<https://www.journals.elsevier.com/sustainable-cities-and-society>)
- "Urban Climate" edited by Elsevier (<https://www.journals.elsevier.com/urban-climate>).
- "Utilities Policy" edited by Elsevier (<https://www.journals.elsevier.com/utilities-policy>).
- "Journal of Building Engineering" edited by Elsevier (<https://www.sciencedirect.com/journal/journal-of-building-engineering>).
- "Nature Communications" edited by Springer Nature (<https://www.nature.com/ncomms/>).
- "Energy Efficiency" edited by Springer (<https://link.springer.com/journal/12053>).
- "Energy, Sustainability and Society" edited by Springer (<https://energysustainsoc.springeropen.com/>).
- "Sustainable Energy Technologies and Assessments" edited by Elsevier (<https://www.journals.elsevier.com/sustainable-energy-technologies-and-assessments/>).
- "Nigerian Journal of Technological Research" of Federal University of Technology Minna (<https://www.njtr.org/>).
- "Impresa Progetto - Electronic Journal of Management IPEJM" accredited by the Italian Academy of Business Studies AIDEA (<https://www.impresaprogetto.it/en/about-journal>).

She is in the **scientific committee** of the Italian network ECO "Edifici a Consumo Zero" (<http://www.edificiaconsumozero.com/>).

She is **Author** of 216 publications & conference organization/presentation (Italian+English+Spanish):

- 70 papers on scientific journals (22 + 46 + 2)
- 10 books (8 + 2 + 0)
- 6 chapters on Italian and International books (3 + 3 + 0)
- 84 papers on proceedings of scientific conferences (17 + 67 + 0)
- 38 conference organization and/or oral or poster presentation (19 + 19+ 0)
- 7 internal reports of Energetics Department of Polytechnic of Turin (Italy) and other publications.

ORCID ID 0000-0001-6822-8624 - SCOPUS ID 15722741600 - Web of Science ID A-3815-2015

Scientific production and metrics
 (December 2021):

Scopus: number of indexed products = 65, number of citations = 618, H-index = 15

Web of Science: number of indexed products = 53, number of citations = 511, H-index = 13

Google Scholar: number of indexed products = 131, number of citations = 1186 (958 from 2016), H-index = 20, i(10)index = 41

ResearchGate: RG-score = 24.11, number of citations = 980, 146 recommendations, H-index = 17

Semantic Scholar: number of publications = 122, number of citations = 856, highly influential citations = 9, H-index = 16

Scinapse: number of publications = 150, number of citations = 557, H-index = 13

IEEE/IET Electronic Library (IEL): number of publications = 24 (from 2015 to 2021)

Participation at Research Projects

Dates	Topics
1998-2000	Engineering for confined spaces. Instruments and assessments for comfort design. This work has been supported by MIUR, Ministero dell'Istruzione, dell'Università e della Ricerca.
1999-2000	Young researches project: "Fluid dynamic analogy for escape ways in buildings" (as responsible person). This work has been supported by Politecnico di Torino.
2000-2001	Young researches project: "Thermo-economics and environmental analysis for an integrated energy system for Olympics Games in Turin 2006" (as responsible person). This work has been supported by Politecnico di Torino.
1999-2001	Sustainable renovation of scholastic buildings in Turin Province. This work has been co-supported by Provincia di Torino and the contributor was: DENER Department of Politecnico di Torino.
2001-2002	Young researches project: "Comfort in university classrooms". This work has been supported by Politecnico di Torino.
2003-2005	Assessment for energy certification in existing buildings: comfort and environmental impact. This work has been supported by MIUR and the contributors were: Università degli Studi di Palermo, Politecnico di Torino, Università di Pisa, Università IUAV di Venezia, Università degli Studi "Mediterranea" di Reggio Calabria.
2006-2007	EPD (Environmental Product Declarations) for building sector as academic tutor. This work has been supported by the ASP Alta Scuola Politecnica and the contributors were: Politecnico di TORINO, Politecnico di MILANO, Life Cycle Engineering – LCE srl (http://www.asp-poli.it/epd-for-building-sector/ ; http://www.lcengineering.eu/).
2006-2008	Participation at the project "Energy saving technologies for buildings in Piedmont Region". This work has been supported by Fondazione CRT and the contributor was: DENER Department of Politecnico di Torino.
2009-2010	WiFi4Energy Wireless sensors network for energy management in educational buildings (http://www.wifi4energy.polito.it/en/). This work has been supported by Politecnico di Torino and the contributors were the Departments: DENER, DAUIN, DELEN, DBDMG.
2009-2011	Participation at the project "CAPACities: Competitiveness Actions and Policies for Alpine Cities". This work has been supported by Piedmont Region with European contributors (http://www.capacities-alpinespace.eu/acm-online/HomePage.html).
2010-2012	Natural lighting for energy saving and visual comfort. This work has been supported by MIUR, Ministero dell'Istruzione, dell'Università e della Ricerca and the contributors were: Politecnico di TORINO, Università degli Studi di NAPOLI "Federico II", Università della CALABRIA, Università degli Studi di ROMA "La Sapienza", Università Politecnica delle MARCHE.
2011-2012	Evaluation of retrofitting strategies for energy saving in Brazilian hotels. The contributors were: Department of Architectural Technology, University of Brasilia (Brazil), Energy Department, Polytechnic of Turin (Italy), 3Unit Building Physics and Services, Eindhoven University of Technology (Netherlands).
2012-2013	Cities on Power (as responsible person with prof. G.V. Fracastoro) co-financed by the Central Europe program. This work has been supported by Province of Torino and the contributor was: DENERG Department of Politecnico di Torino (http://www.citiesonpower.eu/en , http://www.provincia.torino.gov.it/speciali/2014/energia/dwd/PAES_ProvTO_definitivo.pdf).
2014	Consulting contract between DENERG Politecnico di Torino and BUILDING TECHNOLOGY TORINO B.T.T. S.r.l. on: thermal behaviour of electric heat emission systems (as responsible person).
September-December 2014	Educational Project: Workshop "Design Along The River - Progetto multiscale e interdisciplinare dei territori lungo il Torrente Stura di Lanzo e di alcune aree strategiche di intervento"; partners: Politecnico di Torino (DIST, DENERG), Provincia di Torino, Comune di Torino (http://www.inu.it/wp-content/uploads/programma19092014.pdf).
October 2014-November 2015	Participation at the research project "Empowering", within the European Community Program "Intelligent Energy Europe", in collaboration with prof. Michele Pastorelli of DENERG - Polytechnic of Turin, with 12 partners from five European countries (Spain, France, Austria, Belgium, and Italy) and IREN Energia (http://www.irenenergia.it/ChiSiamo/Iniziativa/empowering.html).
October 2014-October 2015	Quality of Urban Air with Data Realtime Analysis for the monitoring of Trend of Emissions - QUADRANTE. POR - FESR - Programma Operativo Regionale. This work has been supported by Regione Piemonte "Bando regionale a sostegno di progetti di ricerca industriale e/o sviluppo sperimentale di applicazioni integrate e innovative in ambito internet of data – IoD".
May-June 2015	Educational Project: WIN-WIN PLUS Advanced "High performance urban green infrastructure" for health and digital collaborative communities: street design 2.0 in Turin (Italy); partners: Politecnico di Torino (DAD, DIATI, DENERG), Università di Torino (DISAFA), University of Michigan, Polytechnic Institute of Viseu, Polytechnic Institute of Porto, Municipality of Turin.
2014-2016	EEB – Zero Energy Buildings in Smart Urban District (Edifici a Zero Consumo Energetico in Distretti Urbani Intelligenti). This work has been supported by MIUR, Ministero dell'Istruzione, dell'Università e della Ricerca (Progetti di Ricerca su Fondi Strutturali e Nazionali). The contributor is: DIST Department of Politecnico di Torino with prof. P. Lombardi.
2016-2017	Participation at the project "To Wait in a New Way" within "Torino Living Lab", with the creator of the project prof. Amedeo Manuello Bertetto and the companies Febo sas and Enecom srl (http://torinolivinglab.it/portfolio/to-wait-in-a-new-way/); the project consists in adapting a waiting bus shelter to a smart system with roof-integrated solar photovoltaic modules on removable polycarbonate structure; the PV system allows to provide electricity to supply various services to users of public transport such as wi-fi connections, USB ports to charge smartphones and an air pollution control station to monitor the air quality.
2018-2019	Participation at Research and Training Activities co-financed by the Interuniversity Department of Regional and Urban Studies and Planning (DIST) of Politecnico di Torino with the following projects: <ul style="list-style-type: none"> - UNTITLED. HYBRID SPACES OF THE CONTEMPORARY CITY (proponent: prof. Marco Santangelo). - URBAN LABORATORY: REGENERATE THE PERIPHERALS. The University in the neighborhoods (proponent: prof. Cristiana Rossignolo). - BIG/OPEN DATA & SPATIAL ANALYTICS (proponents: Francesca Abastante, Luigi La Riccia, Jacopo Toniolo,

- Sara Torabi Moghadam).
- 2018-2019 Participation at Research Activities co-financed by FULL the Future Urban Legacy Lab at Politecnico di Torino with a research project on: VERTICAL FACTORY VERSUS HORIZONTAL PRODUCTION. Tools to Re-Balancing Urban Contexts (proponents: Roberta Ingaramo - Politecnico di Torino & Don Carter - Carnegie Mellon University, Pittsburgh, US).
 - 2019-2020 Consulting contract between DENERG Politecnico di Torino and Wall & Wall sagl, Lugano (CH) on: evaluation of the thermohygro-metric effects of the "Biodry" system on wall structures also subjected to capillary rising damp (as responsible person).
 - 2019 Financing of training activities of the DIST Department_Bando 2019: STRATEGIC PLANNING FOR THE RESILIENT CITY. Approaches, projects and innovations in the city of Copenhagen, study trip (September 11-13 2019) organized by prof. G. Brunetta, U. Janin Rivolin, G. Mutani and O. Caldarice, sponsored by the Responsible Risk Resilience Center - R3C of Politecnico di Torino, the University of Southern Denmark - SDU, the City of Copenhagen, and by BloxHub the Nordic Hub for Sustainable Urbanization (http://www.r3c.polito.it/sites/default/files/files/Pianificazione_strategica_per_la_resilienza_compresso_def.pdf)
 - 2020 International Joint Workshop "Sustainable Buildings and Urban Infrastructures" with the University of Maryland financed by the Interuniversity Department of Regional and Urban Studies and Planning (DIST) of Politecnico di Torino. "Bando 2019 per l'attribuzione di contributi per il finanziamento di attività didattiche del Collegio Pianificazione e Progettazione nell'ambito del progetto Dipartimento di eccellenza DIST" (as responsible person): [http://www.politocomunica.polito.it/en/news/allegato/\(idnews\)/13298/\(ord\)/0](http://www.politocomunica.polito.it/en/news/allegato/(idnews)/13298/(ord)/0); https://didattica.polito.it/pls/portal30/sviluppo.PORTLET_Mail_dipartimento.download_file?p_file=45709367.PDF&p_data=03/04/2019
 - 2020-21 Participation at "Programma Operativo Regionale Investimenti a favore della crescita e dell'occupazione F.E.S.R. 2014/2020" Piedmont Region feasibility studies: ENER.COM with ACEA PINEROLESE INDUSTRIALE SpA, ENVIRONMENT PARK SpA, and SSB Progetti srl.
 - 2020 Collaboration with Kelso Institute for the Study of Economic Systems in cooperation with the European University Viadrina Frankfurt to support the energy balance analysis and report for the energy communities of Pinerolese and Val di Susa and for communication of these activities at the population and interested bodies.
 - 2020-23 Participation in the stakeholders' group of the project "SHifting towards Renewable Energy for Transition to Low Carbon Energy" SHREC within Interreg Europe (<https://www.interregeurope.eu/shrec/>; <https://www.interregeurope.eu/shrec/news/news-article/10901/energy-policies-and-innovative-projects-in-piemonte/>; https://www.interregeurope.eu/fileadmin/user_upload/tx_tevprojects/library/file_1626088783.pdf).
 - 2020-21 Post-UnLock. From Territorial Vulnerabilities to Local Resilience, financed by the Interuniversity Department of Regional and Urban Studies and Planning (DIST) of Politecnico di Torino. The responsible person is prof. Angioletta Voghera and the project is in collaboration with University of Southern Denmark (SDU), Urban Resilience & Energy at the Manchester Urban Institute, Polytechnical University of Catalonia.
 - 2021 International Workshop "Sustainability of urban landscape" financed by the Inter-university Department of Regional and Urban Studies and Planning (DIST) of Politecnico di Torino ([https://www.dist.polito.it/news/\(idnews\)/15914](https://www.dist.polito.it/news/(idnews)/15914)). "Bando 2020 per l'attribuzione di contributi per il finanziamento di attività didattiche del Collegio Pianificazione e Progettazione nell'ambito del progetto Dipartimento di eccellenza DIST" (as responsible person) in collaboration with Idiap Research Institute in Fribourg, SDU-Copenhagen, University of Maryland (USA), Senseable City Lab-MIT(USA) and Ryerson University (CA).
 - 2021-23 Participation of H2020 LC-SC3-CC-1-2018-2019-2020 - Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition (Project 101022565 EC: Energy Citizenship and Energy Communities for a Clean Energy Transition) with Scalenghe Municipality.
 - 2021-22 Consulting contract between DENERG Politecnico di Torino and MERIDAUNIA company on "Pre-feasibility analysis of an energy community as a Monti Dauni local development strategy" (as responsible person).

Participation at Annexes of International Energy Agency (IEA):

Dates	Topics
1993-1996	Annex 23: Multizone Air Flow Modelling.
2000-2001	Annex 35: "Hybrid ventilation in new and retrofitted office buildings" Subtasks B - Workgroup B4: Development of Probabilistic Methods.

Participation at Join Research Center JRC Workshops

Dates	Topics
2015	Spatial data for modelling building stock energy needs, JRC Ispra (IT), 24-26/11/2015
2016	Methodologies for energy performance assessment based on location data, JRC Ispra (IT), 12-14/9/2016

List of publications, conferences and presentations:

1. "Caratteristiche specifiche di un centro di Rianimazione ostetrica" (poster) - E. Margaria, G. Mutani, C. Mutani - MINERVA ANESTESIOLOGICA, Vol. 58 - Suppl.2 al N.10, October 1992.
2. "Tecniche di simulazione per lo sviluppo della diffusione di inquinanti gassosi e solidi in ambienti confinati dovuti ad incendi" - G. Mutani - Relatori: M. Cali, N. Piccinini, R. Borchiellini - Master Thesis in Ingegneria Civile Edile, Politecnico di Torino, July 1993.
3. "Studio della distribuzione di miscele di aria e di inquinanti gassosi e solidi negli ambienti confinati con le tecniche utilizzate per reti fluidodinamiche in pressione" (due volumi) - R. Borchiellini, M. Cali, G. Mutani, M. Torchio - Copyright 1993 by ATIG, Associazione Tecnica Italiana del Gas, <http://hdl.handle.net/11583/1523462>, <http://hdl.handle.net/11583/1532714> (e Pubblicazione Interna del Dipartimento di Energetica del Politecnico di Torino, n. PT DE FT/321, 1993).

4. "Evaluation to Adapt COMIS to Smoke Movements in Buildings Analysis" - R. Borchiellini, M. Cali, G. Mutani - Pubblicazione Interna del Dipartimento di Energetica del Politecnico di Torino, n. PT DE 338/FT, December 1993, <http://hdl.handle.net/11583/1532717> ("Evaluation to adapt COMIS to smoke movements in buildings analysis", Borchiellini R., Cali M., Mutani G., 10/1993, IEA.ECB.A23/93.10.13/RB)

5. "Confronto di modelli per lo studio della diffusione dei fumi dovuti ad incendi" - R. Borchiellini, M. Cali, G. Mutani, 49° Congresso Nazionale ATI, Perugia, September 1994, pp.1355-1370, SGE Editoriali, ISBN 8886281064 (<http://hdl.handle.net/11583/1532365>).
6. "Results comparison of smoke movement analysis in building using steady-state and transient models" - R. Borchiellini, M. Cali, G. Mutani - Fire Engineering and Emergency Planning Research and Applications, pp. 57-67, Ronald BARHAM, E & FN Spon Ed., London, ISBN 0 419 20180 7, 1996 (<https://www.routledge.com/Fire-Engineering-and-Emergency-Planning-Research-and-applications-1st/Barham/p/book/9780367401450>) and presented to the meeting: First European Symposium on Research and Applications in Fire Engineering and Emergency Planning, EUROFIRE '95, Centre Européen de la Chambre des Artisans et des Métiers (CECAM), Nimes, France, the 25th to the 27th of March 1995.
7. "Sulla modellizzazione del fenomeno di diffusione dei fumi in ambienti confinati" - R. Borchiellini, M. Cali, G. Mutani, 2° CONVEGNO NAZIONALE AIIA: "Il problema del fumo e la sua gestione (per grandi aree commerciali, edifici civili, ospedali e stabilimenti industriali)", Milano, November 1995 (<http://hdl.handle.net/11583/1523443>).

8. "Fire Safety Application Using a Fire Simulation Computer Code - A Case Studied", R. Borchiellini, M. Cali, G. Mutani, S. Perrone, estratto dagli atti del congresso: 2nd European Meeting on CHEMICAL INDUSTRY AND ENVIRONMENT - EMChIE 96, Alghero, pp. 951-964, settembre 11-13rd 1996 (e Pubblicazione Interna del Dipartimento di Energetica del Politecnico di Torino, n. PT DE 439/FT, June 1996).
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