

CURRICULUM VITAE

EDUCATION

2005 – Politecnico of Torino (Italy): **Degree in Nuclear Engineering** with mark 110/110.

Topic of thesis: “Reliability and Safety of complex technological systems, with particular reference to preliminary risk analysis and environment valuations to compare alternative energetic technologies” (tutors: prof. G. Del Tin and A. Carpignano) in collaboration with RAMS&E.

2007 – Politecnico of Torino (Italy): **Master on Reliability, Maintenance and Safety of Complex Systems.**

The Master focused the attention on safety, reliability and maintenance studies about complex systems, for example FMEA and HAZOP techniques and statistic methods, safety studies, Risk Analysis and Consequence modelling.

2006 - 2008 – Politecnico of Torino (Italy): **Ph.D in Industrial Safety and Risk Analysis.**

My research activities were about: hydrogen risk analysis and uncertainties analysis for refueling stations; Lagrangian modelling of atmospheric dispersion of hydrogen. A risk analysis of an hydrogen refueling station has been achieved.

2006 – **Summer School** on computation analysis of fluid dynamics problems (Siena)

2008 – **PHA Team Leader** Course, Amsterdam.

I attended on August 2008 a specific course about PHA Team Leaders in Amsterdam organized by Primatch Training Institute from Columbus, Ohio, USA. I learnt the techniques to organize and lead process hazard analysis studies using HAZOP, FMEA and WHAT-IF techniques for all type of systems and to better exploit the PHAWorks 5 software, the specialized tool for conducting PHA studies, distributed by Primatch;

2009 – **Classification of hazardous area at risk from explosion** (ATEX directive), organized by CEI (Comitato Elettrotecnico Italiano)

Continuous training on RAMS & HSE subject, details omitted.

PROFESSIONAL ACTIVITIES

Since January 2017 – **TTI Sector Responsible** (Technology Transfer and Innovation) for **RAMS&E srl**

Coordination of the activities delivered in the field of PHA (Process Hazard Analysis), training, research and development, for instance:

- HAZOP, HAZID, What-if, Preliminary Hazard Analysis
- SIMOPS (Simultaneous Operations Analysis)
- Preparation, development and teaching of training courses about Health, Safety, Environmental, Availability and Maintainability
- Development and coordination of national and international research project

Since January 2006 – **Specialist for RAMS&E srl in the RAMS & HSE sectors:**

- RAM Analysis
- FMECA and Fault Tree Analysis
- Risk Assessment (including FERA and QRA)
- HAZOP, HAZID, PHA Team Leader
- Functional Analysis and SIL Study, Team Leader
- SIMOPS (Simultaneous Operations) Team Leader
- HSE studies for offshore platform
- EX Hazardous Area Classification according to EU ATEX directive
- Training and Development of Didactic Material (slides and booklets)
- Alarm Management
- HSE activities in compliance with the Seveso Directive (Safety report, notification, selection of Critical Elements, etc.)
- Safety analysis for nuclear waste storage building.
- Development of the P&ID as built by means of plant visits

Refer to appendix 1 for details on professional activities.

EXPERIENCES IN THE RESEARCH AND ACADEMIC FIELDS

2006-2008 – Research activities achieved during the **Ph.D.:**

- Academic research about safety aspects for hydrogen production and distribution systems and application of a risk analysis for an hydrogen refueling station for automotive (The activity was founded by the Italian Ministry of Research and University PRIN 2005).

Born on the 18th March, 1980, at Ragusa (Italy)

- Development of innovative techniques for uncertainty evaluation in the risk analysis for an hydrogen refueling station, with particular deepening of consequence modelling (PRIN 2005).
- Development of a new Lagrangian Particle Model to study atmospheric dispersion of heavy and light gases (in collaboration with CNR-ISAC of Torino and ARIANET of Milano).
- Experimental activities about hydrogen release and atmospheric dispersion to support modelling development (in collaboration with Università di Pisa).

Since 2009 – **Academic Researcher** (post-PhD) at the Politecnico of Torino.
Research activities achieved:

- RAMS (Reliability, Availability, Maintainability and Safety) Analysis and Environment Impact Study of an innovative system able to produce Biogas, Hydrogen and Electric Energy (The activity was founded by the Regione Piemonte (Italy), BIOH2POWER).
- Multi-risk Analysis of the whole territory of the Regione Piemonte including the following natural risks: flooding, seismic, landslide, avalanche, debris flow (The activity was founded by the Regione Piemonte (Italy), RISKMAT).
- RAMS Analysis for innovative and pilot plants for the production of Nanomaterials (the activity is founded by the EU FP7 AddNano project)

Further research activities:

- Development of Alarm Management tool for the optimization of Operation & Maintenance activities.
- Analysis of safety road tunnel in order to development of a new methodology to realize the risk analysis for the road tunnel.
- Development of Risk Analysis of global Energy Network in order to estimate the Risk for the energy supply of the whole Europe (REACCESS).
- Analysis of the Fires Simulation with fluid dynamics codes, with application to a LNG plant.
- Analysis of natural risk in the Regione Piemonte and development of models for a multi-risk approach.
- Development of tools for the risk analysis in the Oil&Gas platforms.
- Development of a tool for the risk mapping for FERA and QRA offshore studies.
- Analysis of CFD tools for onshore and offshore plant application.

Reviewer experience:

- Reviewer for the International Journal of Hydrogen Energy since 2010.
- Reviewer for the International Journal of Hazardous Materials since 2011.

Born on the 18th March, 1980, at Ragusa (Italy)

- Scientific Committee member of Italian conference VGR (Valutazione e Gestione del Rischio negli Insediamenti Civili ed Industriali)

Participation to the **Mission in Brazil** inside the Dialogue between the Brazil and the Europe about the Safety of oil&gas offshore installations; contribution to the **Seminar on the Safety offshore**, December 2014.

Several publications on International and National Journals and Conferences about RAMS and HSE topics.

Refer to appendix 3 for details on scientific publication.

TEACHING ACTIVITIES

Since 2007 Lecturer to academic educational activities at the **Politecnico of Torino**, at the **Academic Master** on “Reliability, Maintenance and Safety: methods for analysis and management” and at the **Academic Master** on “Industrial Safety and Risk Analysis”, both in Italian and English, on the following academic topics:

- Safety and Risk Analysis courses (Energetic Engineering and Environmental Engineering, Politecnico of Torino);
- Techniques for Environmental Design and Evaluation (Academic Master, COREP);
- Industrial Safety (Academic Master, Politecnico of Torino, COREP);
- Reliability, Availability, Maintenance and Safety (Academic Master, Politecnico of Torino, COREP).
- Risk Analysis (Petroleum Engineering, Politecnico of Torino)

Since 2009 Teacher for **ENI University Corporate** on the following professional topics:

- HAZOP technique basic course (3 days)
- HAZOP technique advanced course (5 days)
- Industrial Safety
- RAM Analysis
- HSE Awareness
- SIL Analysis
- Process Safety Management
- Root Cause Analysis

Since 2013 Teacher for **DNV ITALIA** on the following professional topics:

- HAZOP technique basic course (4 days);

Born on the 18th March, 1980, at Ragusa (Italy)

Since 2013 for Italian **Seveso Plants** on the following professional topics:

- Safety Management System
- Permit of Work
- Hazardous Substances and Material Safety Data Sheet
- Personal Protection Equipment
- Critical Elements

Since 2013 for other **Companies** on the following professional topics:

- RAM Analysis
- HAZOP
- PHA

Since 2015 for **International Pharmaceutical Company**, on the following professional topic:

- Process Hazards Analysis (PHA) Techniques

Refer to appendix 2 for details on Teaching Activities.

LANGUAGE KNOWLEDGE

Deep knowledge of Italian language, mother tongue-native speaker

Good knowledge of English language

Basic knowledge of French

FURTHER INFORMATION

Member of Torino Engineers Register since 2006, matriculation number 10279W

Deep knowledge of tools for simulation of physical consequences in case of release of dangerous substances and related hazard scenarios (TNO Effects, DNV Phast). Basis knowledge on NIST FDS.

Deep knowledge of Microsoft Office package

Good knowledge of RAM Analysis specific tools (Starts Studio and some other tools for Fault Tree and Event Tree analysis)

Deep knowledge of tools for HAZOP, FMECA, What-if analysis editing and development (PHA Works)

Deep knowledge of tool to risk mapping ARIPAR (FERA and QRA studies)

Eng. Francesco GANCI
TTI Sector Responsible – francesco.ganci@ramse.it



Born on the 18th March, 1980, at Ragusa (Italy)

Good knowledge of tools and language for numeric computation issues (Matlab, C++, Fortran)

Deep knowledge of Cad tools (AutoCad).

Torino, the 10th January, 2017

Francesco GANCI

I grant permission for my personal information to be used, ref. law 196/2003.

CV – APPENDIX I

DETAILS ON PROFESSIONAL ACTIVITIES

RAMS Analysis (Reliability, Availability Maintainability and Safety)

Risk and Safety Analysis

- Risk analysis for H2 refuelling station, Environment Park S.p.A (Torino), 2006;
- Risk analysis for thermoelectric power plants since 2006
- Risk analysis for off-shore oil&gas platform since 2006;
- Safety Assessment for gas compressor domestic system for automotive refueling, BRC (Cuneo), 2009
- Safety Assessment for an automotive application of Lithium Battery for the Torino Urban Transportation Company (Torino), 2010
- Safety Analysis for a nuclear waste storage building in Italy, 2011/2012
- Safety Analysis for a H2 refueling station for autobus for LindeGas Italia (Milano), 2012
- Safety Analysis for LPG unloading operations for Campweld (Turin), 2013
- Safety Analysis for manufacturing plant in compliance with EU Severo Directive, Avio, 2013
- Consequence analysis for polymeric plant, ARPA Industriale, 2013
- FERA and QRA for an onshore oli&gas plant located in Italy, FEED Engineering phase, for SAIPEM (Rome), 2014
- Risk Analysis for an Ammonia Storage and Distribution system, GEAVIO, Torino, 2014-2015
- Risk Analysis for an innovative system for the heat and electricity production by means of fuel cell SOFC and biogas, Turin, 2015
- FERA and QRA for an onshore methanol production plant in Nigeria, FEED Engineering phase, for Saipem (Rome), 2015
- Risk Analysis for a warehouse of hazardous products according to the D.Lgs. 105/2015, Preliminary and Final Safety Report, Notification, for Messaggerie del Garda, site of Calvignasco (MI), 2016

HAZOP, PHA Team Leader and Scribe

- 2008, HAZOP Scribe for Fuel gas plant in Qatar, Scribe 2 days, RINA INDUSTRY (Genova);
 - 2009, HAZOP Scribe Study for an experimental reactor, Rockwood Italy S.p.A., (Torino);
 - 2011, HAZOP Team Leader for a R&D Chemical plants for catalyst production, Team Leader 12 days, LyondellBasell Ferrara (Italy);
 - 2011, HAZOP support for polymer plant, LyondellBasell Brindisi (Italy)
-

Born on the 18th March, 1980, at Ragusa (Italy)

- 2012, HAZOP Team Leader for a new Pilot plant for LitoFerroFosfato, Rockwood Italy 2 days (Torino)
 - 2012, HAZOP Team Leader for nuclear waste storage building, Italy 3 days
 - 2012, HAZOP Team Leader for hydrogen refueling station, Lindegas Italia 1 day (Milano)
 - 2012, HAZID Team Leader for offshore platform for Oil&Gas, Tecnomare Italia 1 day (Milano)
 - 2013, HAZOP Team Leader for Sewage Treatment Packages for Eon Italia 5 days (Vercelli)
 - 2013, HAZOP Scribe for a Gas Storage and Distribution, Vacuum and Gas Injection Systems Project 3 days, for Rivoira (Turin)
 - 2013, HAZOP/HAZID Team Leader for a EPC platform, including the following units and skids: wellheads and manifolds, three-phase separators, oil treatment and pumps, gas treatment, gas compression and dehydration, glycol regeneration, fire water pumps, emergency diesel generator, power generator turbogas, nitrogen generator, air compressed generator, chemicals injection skids, others auxiliary systems, 17 days, Basis Engineering (Milan)
 - 2013 HAZOP/HAZID Team Leader for a design change in an operative platform, new well, 1 day, Basis Engineering (Milan)
 - 2014 HAZOP Team Leader for a polymer (PET) productive plant, 18 days, Plastipak (Verbania)
 - 2014 HAZOP Team Leader for a Thermal Pilot project to steam injection to wells oil&gas, 3 days, Basis Engineering (Milan)
 - 2014 HAZOP Leader for a Gas Atomizer System for Ti powder production, 3 days, GEAVIO Torino
 - 2014 HAZOP Leader for an Ammonia Storage and Distribution System, 1 day, GEAVIO Torino
 - 2015, HAZOP Team Leader for a EPC platform, including the following units and skids: wellheads and manifolds, three-phase separators, oil pumps, gas treatment, fire water pumps, emergency diesel generator, power gas generator, air compressed generator, chemicals injection skids, others auxiliary systems, 7 days, Basis Engineering (Milan)
 - 2015, HAZOP Team Leader for a Pressurized Degassing System for process water, 1 day, Spirax (Milan)
 - 2016, HAZOP Team Leader for a prototype of an hydrogen and electricity production system by means of electrolyze and fuel cell, 5 days, Electro Power Systems (Torino)
 - 2016, HAZOP Team Leader for the revision of the HAZOP done in the 2014 for the Gas Atomizer System for Ti powder production, 1 day, GEAVIO (Cameri NO)
 - 2016, HAZOP Team Leader for a cogeneration system with natural gas thermal engine, for electricity and chilled water production, 2 days, Plastipak, (Verbania)
 - 2016, HAZOP Team Leader for a cogeneration system for the district heating system for Bologna, 3 days, Gruppo Hera (Bologna)
-

Born on the 18th March, 1980, at Ragusa (Italy)

- I managed and developed didactic material on Basic and Advanced HAZOP courses for Eni Corporate University since 2009
- Several experiences on teaching of Basic and Advanced HAZOP courses since 2009

HSE Studies for off-shore platform

- HAZOP and HAZID
- Dropped Object Analysis
- SIMOPS (Simultaneous Operations), Chairman
- Flare and Vent study (Thermal radiation and dispersion impact)
- EERA (Evacuation, Escape and Rescue Assessment)
- QRA (Quantitative Risk Assessment)
- FERA (Fire and Explosion Risk Analysis)
- Human Factor Analysis (Chairman)
- Noise study
- Helicopter crash assessment
- SIL Allocation
- OIMR (Operation, Inspection, Maintenance, and Repair Philosophy)

(Basis Engineering Milano), 2013-2015.

Functional Analysis and SIL Study in compliance with IEC 61508 and 61511

- 2006, SIL Verification Analysis for valve systems according to IEC61508, Certification Body (Italy);
- 2006, SIL Verification Analysis for protection loops of a gas turbine in a combined-cycle power plant, PI GRECO s.r.l (Torino);
- 2007, SIL Verification Analysis for protection loops according to IEC 61508, Oil & Gas Engineering Company (Italy);
- 2008, Analysis and Study of valves systems, according to IEC 61508, Certification Body (Italy);
- 2011; SIL Allocation Team Leader and Verification activities according to IEC61508/61511 for Pilot Plant and Catalyst Manufacturing, Basell Poliolefine Italia s.r.l. (Ferrara) more than 30 days of workshop
- 2012, SIL Allocation Team Leader and Verification activities according to IEC61508/IEC61511 for Oil Export facility, Tecnomare (Milano)
- 2015, SIL Allocation, Team Leader, for an offshore platform for an Engineering Company in Milan.
- 2016, Functional Analysis and SIL study for a prototype of an hydrogen and electricity production system by means of electrolize and fuel cell, 1 day, Electro Power Systems (Torino)

Born on the 18th March, 1980, at Ragusa (Italy)

- 2016, Functional Analysis and SIL study for a cogeneration system for the district heating system for Bologna, 1 day, Gruppo Hera (Bologna)
- Several experiences on teaching of SIL Analysis since 2012

EX Hazardous Area Classification

- 2012, Hydrogen Refueling Station for LindeGas (Milano)

Arrangement and development of Didactic Material

- 2009-2010, I managed and developed didactic material on several topic regarding Industrial Safety and Risk Analysis, e.g HAZOP and PHA Team Leader, Safety and Risk Analysis, RAM and Maintenance Analysis, Standard and Specification on Industrial Safety, Fire system, IPPC EU directive, classification and regulations of hazardous materials, classification of places at risk of explosion (ATEX EU directive) for an International Oil Company.

Fire Safety Management System

- 2010, Firefighting Safety Management System development - Santa Maria della Scala, Siena (Italy);

Alarm Management

- 2010, Alarm Management Process application, based on RAMS/HSE methodologies, to improve the performance of the DCS for the Edipower plant of Chivasso, INVENSYS S.p.a, (Torino).
-

Born on the 18th March, 1980, at Ragusa (Italy)

CV – APPENDIX 2

DETAILS ON TEACHING ACTIVITIES

Client/Provider	Trained Company	Duration	Course
Year 2016			
Eni Corporate University	Oil&Gas Companies	5 days	HAZOP course, advanced level
Eni Corporate University	NCOC (North Caspian Operating Company)	5 days	RAM Analysis
Eni Corporate University	NAOC (Nigerian Agip Oil Company)	3 days	Root Cause Analysis
RAMS&E	Huntsman Pigments	3 days	HAZOP course, basic level
RAMS&E	Several companies (annual course)	2 days	HAZOP course, basic level
Eni Corporate University	Oil&Gas Companies	3 days	HAZOP course, basic level
Eni Corporate University	Master in Management of Health, Safety, Environment and Quality Systems	3 days	RAMS Analysis
Politecnico di Torino	Master in Engineering of Petroleum, Energetic Engineering	36 hr	Safety and Risk Analysis
Year 2015			
RAMS&E	TEVA (International)	3 days	Process Hazard Analysis (PHA) Techniques
Eni Corporate University	NAOC (Nigerian Agip Oil Company)	3 days	Functional Safety (SIL Analysis) IEC 61508/61511
Eni Corporate University	Oil&Gas Companies	4 days	Process Safety Management (PSM)
Eni Corporate University	Oil&Gas Companies	5 days	HAZOP techniques advanced course
Eni Corporate University	IRAQ Oil&Gas Company	6 days	Industrial Safety
Eni Corporate University	Master in Management of Health, Safety, Environment and Quality Systems	1 day	RAMS Analysis

I grant permission for my personal information to be used, ref. law 196/2003.

Born on the 18th March, 1980, at Ragusa (Italy)

Politecnico di Torino	Master in Engineering of Petroleum, Energetic Engineering	56 hr	Safety and Risk Analysis
Year 2014			
Eni Corporate University	Oil&Gas Companies	3 days	HAZOP techniques basic course
RAMS&E	Infineum Italy srl	2 days	Advanced RAM Analysis
Eni Corporate University	Master in Management of Health, Safety, Environment and Quality Systems	1 day	Risk Analysis exercises
RAMS&E	AVIO	4 days	EU Seveso Directive training, Safety & Health topics
Politecnico di Torino	Master in Engineering of Petroleum, Energetic Engineering	56 hr	Safety and Risk Analysis
Year 2013			
Eni Corporate University	Master in Management of Health, Safety, Environment and Quality Systems	1 day	IEC 61508 & 61511, Safety Life Cycle in the design of process systems
Politecnico di Torino	Master in Engineering of Petroleum, Energetic Engineering	48 hr	Safety and Risk Analysis
Eni Corporate University	Oil&Gas Companies	3 days	HAZOP techniques basic course
Eni Corporate University	Oil&Gas Companies	5 days	HAZOP techniques advanced course
Eni Corporate University	NAOC (Nigerian Agip Oil Company)	3 days	HAZOP techniques basic course
DNV Italia	ENEL	4 days	HAZOP techniques basic course
RAMS&E	AVIO	4 days	EU Seveso Directive training, Safety & Health topics
Year 2012			
Politecnico di Torino	Master in Engineering of Petroleum, Energetic Engineering	48 hr	Safety and Risk Analysis

I grant permission for my personal information to be used, ref. law 196/2003.

Born on the 18th March, 1980, at Ragusa (Italy)

Eni Corporate University	Oil&Gas Companies	3 days	HAZOP techniques basic course
Eni Corporate University	Oil&Gas Companies	5 days	HAZOP techniques advanced course
Eni Corporate University	IRAQ Oil&Gas Company	3 days	RAM Analysis
Eni Corporate University	Egipt Oil&Gas Company	2 days	HSE Awareness
Politecnico di Torino e COREP	Academic Master in Risk Analysis and Industrial Safety	12 hs	Consequence analysis
Politecnico di Torino	Master of Petroleum Engineering	9 hs	Consequence analysis
Year 2011			
Eni Corporate University	Master in Management of Health, Safety, Environment and Quality Systems	1 day	IEC 61508 & 61511, Safety Life Cycle in the design of process systems
Politecnico di Torino	Master in Engineering of Petroleum, Energetic Engineering	48 hr	Safety and Risk Analysis
Eni Corporate University	Oil&Gas Companies	6 gg	No. 2 HAZOP techniques basic course
Eni Corporate University	Oil&Gas Companies	5 days	HAZOP techniques advanced course
Eni Corporate University	NAOC (Nigerian Agip Oil Company)	5 days	RAM Analysis
Politecnico di Torino e COREP	Academic Master in Risk Analysis and Industrial Safety	8 hs	Consequence analysis
Politecnico di Torino	Master of Petroleum Engineering	9 hs	Consequence analysis
Year 2010			
Politecnico di Torino	Master in Engineering of Petroleum, Energetic Engineering	48 hr	Safety and Risk Analysis
Eni Corporate University	Oil&Gas Companies	3 days	HAZOP techniques basic course
Eni Corporate University	Oil&Gas Companies	5 days	HAZOP techniques advanced course

I grant permission for my personal information to be used, ref. law 196/2003.

Born on the 18th March, 1980, at Ragusa (Italy)

Politecnico di Torino e COREP	Academic Master in Risk Analysis and Industrial Safety	10 hs	Consequence analysis
Politecnico di Torino e COREP	Academic Master in Risk Analysis and Industrial Safety	4 hs	SIL Analysis
Politecnico di Torino	Oil&Gas Companies	4 hs	Fire and Explosion Risks
Year 2009			
Politecnico di Torino	Course for the degree in Environmental Engineering and for Nuclear and Energetic Engineering	24 hs	Safety and Risk Analysis
Politecnico di Torino e COREP	Academic Master in Risk Analysis and Industrial Safety	10 hs	Safety and Risk Analysis and Environmental Impact Evaluation
Politecnico di Torino e COREP	Academic Master in Reliability, Maintenance and Safety	12 hs	Consequence Analysis
Eni Corporate University	Oil&Gas Companies	3 days	HAZOP techniques basic course
Year 2008			
Politecnico di Torino	Course for the degree in Environmental Engineering and for Nuclear and Energetic Engineering	18 hs	Safety and Risk Analysis
Politecnico di Torino e COREP	Academic Master in Risk Analysis and Industrial Safety	6 hs	Safety and Risk Analysis and Environmental Impact Evaluation
Politecnico di Torino e COREP	Academic Master in Reliability, Maintenance and Safety	4 hs	Consequence Analysis
Year 2007			
Politecnico di Torino	Course for the degree in Environmental Engineering and for Nuclear and Energetic Engineering	12 hs	Safety and Risk Analysis

I grant permission for my personal information to be used, ref. law 196/2003.

Eng. Francesco GANCI
TTI Sector Responsible – francesco.ganci@ramse.it



Born on the 18th March, 1980, at Ragusa (Italy)

Politecnico di Torino e COREP	Academic Master in Risk Analysis and Industrial Safety	8 hs	Safety and Risk Analysis and Environmental Impact Evaluation
Politecnico di Torino e COREP	Academic Master in Reliability, Maintenance and Safety	8 hs	Consequence Analysis

I grant permission for my personal information to be used, ref. law 196/2003.

CV – APPENDIX III
SCIENTIFIC PUBLICATION

PhD and Degree Thesis

- [1.] Ganci Francesco, *Modellistica Lagrangiana a particelle per la simulazione di rilasci e dispersione atmosferica di idrogeno e applicazione alla sicurezza industriale*, Tesi di Dottorato, Aprile 2009
- [2.] Ganci Francesco, *Verifica dell'applicabilità di analisi del rischio e valutazioni ambientali preliminari per il confronto tra tecnologie energetiche alternative*, Tesi di Laurea, Ottobre 2005

Books

- [3.] D. Anfossi, G. Tinarelli, M. Nibart, J. Commanay, F. Ganci, S. Trini Castelli, L. Mortarini, *Simulation of dense and light gas dispersion in presence of obstacles*, In: Air Pollution Modeling and Its Application XX, Book series: NATO Science for Peace and Security Series C: Environmental Security, Springer Netherlands, 2010, pagg. 15-19; ISBN Number: 978-90-481-3810-4; DOI: 10.1007/978-90-481-3812-8
- [4.] G. Tinarelli, D. Anfossi, S. Trini Castelli, A. Albergel, F. Ganci, G. Belfiore, J. Moussafir, *Development of a Lagrangian particle model for dense gas dispersion in urban environment*, In: Air Pollution Modeling and Its Application XIX, Book series: NATO Science for Peace and Security Series C: Environmental Security, Springer Netherlands, 2008, pagg. 28-36; ISBN: 978-1-4020-8452-2; DOI: 10.1007/978-1-4020-8453-9_3

International and National Journal

- [5.] A. Carpignano, C. Nironi, F. Ganci, *Technological risk: a criterion for the optimisation of future EU energy supply scenarios*, International Journal of Energy Sector Management, 2011, Vol. 5, No. 1, pagg. 81-100, ISBN: 978-0-85724-993-7M DOI: 10.1108/1750622111120910
- [6.] F. Ganci, A. Carpignano, N. Mattei, M.N. Carcassi, *Hydrogen release and atmospheric dispersion: Experimental studies and comparison with parametric simulations*, International Journal of Hydrogen Energy (2010), 2011, vol. 36, pagg. 2445-2454, DOI:10.1016/j.ijhydene.2010.04.006
- [7.] A. Carpignano, F. Ganci, *La valutazione dei rischi sul territorio*, Rivista Nazionale AEIT, numero 10, pagg. 48-55, 2010, ISSN: 1825-828X

International Conference

- [8.] D. Anfossi, L. Mortarini, S. Trini Castelli, A. Carpignano, F. Ganci, *BioH2Power WP5: detailed modelling for a safe design of the unit*, Twelfth International Waste Management and Landfill Symposium SARDINIA 2009, Oct. 5 – Oct. 9, 2009, Sardegna, Italia, ISBN Number: 978-88-6265-007-6. CD-ROM
- [9.] F. Ganci, A. Carpignano, N. Mattei, M.N. Carcassi, *Hydrogen release and atmospheric dispersion: Experimental studies and comparison with parametric simulations*, International Conference on Hydrogen Safety ICHS, Sept. 16-18, 2009, Corsica, Francia, CD-ROM
- [10.] A. Carpignano, F. Ganci, E. Ponte, *Risk analysis of an hydrogen refueling station: uncertainty in consequence modelling*, International Probabilistic Safety Assessment and Management Conference PSAM 9, May 18 – May 23, 2008, Hong Kong, ISBN Number: 978-988-99791-5-7. CD-ROM

Born on the 18th March, 1980, at Ragusa (Italy)

- [11.] A. Carpignano, E. Ponte, F. Ganci, *Uncertainty analysis for the consequence assessment in major accidents: application to an hydrogen fuel station*, Safety and Reliability Conference ESREL 2007, June 25 – June 27, 2007, Stavanger, Norway, ISBN Number: 978-0-415-44786-7.

National Conference

- [12.] A. Carpignano, F. Ganci, *La valutazione dei rischi sul territorio: uno strumento per gestire l'incertezza e fatalità*, Atti del convegno CSI-Piemonte "Governare l'incertezza: le scienze e la sfida della previsione", Torino, 2010
- [13.] E. Zio, F. Di Maio, N. Berteletti, A. Carpignano, F. Ganci, *Analisi delle incertezze nella modellazione di un impianto di distribuzione di idrogeno per autotrazione*, Convegno sulla Valutazione e Gestione del Rischio negli Insediamenti Civili ed Industriali VGR2008, Oct. 14 – Oct. 16, 2008, Pisa (Italia), ISBN Number: 978-88-6019-217-2. CD-ROM