



Andrea Morini

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Gender: Male **Date of birth**: 15/07/1964 **Place of birth**: Milano, Italy **Nationality**: Italian

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ABOUT ME

Engineer and researcher with consolidated academic experience in the field of Electrical Systems for Energy, with transversal competences ranging from electricity generation, transmission and distribution to the development of innovative solutions for the management of smart grids, renewable sources and energy storage. He has significant experience in the design and optimization of indoor and outdoor lighting systems and building automation, with a focus on energy efficiency and living comfort.

WORK EXPERIENCE

BuildTech Srl

City: Genova | **Country**: Italy

[2017 – Current] **Founder**

BuildTech was recognized as an Academic Spin Off of the University of Genoa.

BuildTech is an engineering company driving innovation in construction through BIM, with a strong emphasis on sustainability, energy efficiency, smart buildings, and smart city development. It aims to design and renovate spaces that are both people-friendly and environmentally responsible.

Università degli Studi di Genova

City: Genova | **Country**: Italy

[1999 – Current] **Assistant Professor (Electric Energy Systems)**

- Conducted advanced research in electricity generation, transmission, and distribution, with a particular focus on smart grids, renewable energy integration, energy storage, and power system stability
- Possess extensive expertise in the design and optimization of internal and external lighting systems and in building automation technologies, with a strong focus on energy efficiency, user comfort, and system integration
- Participated in and coordinated national and European research projects, including collaborations with leading industrial partners in the energy sector
- Delivered lectures in master's degree programs on topics related to electrical power systems and energy transition technologies
- Supervised master's theses and performed tutoring and mentoring activities; participated in academic examination committees
- Published scientific articles in peer-reviewed international journals and presented research findings at prominent sector conferences
- Served as a reviewer for international scientific journals in the field of electrical engineering and energy systems
- Collaborated with public and private entities to provide technical consultancy and contribute to technology transfer initiatives

Gensym Srl

City: Genova | **Country**: Italy

[1997 – 1999] **Senior Consultant**

- Analysis and collection of functional and technical requirements at industrial and high-tech customers
- Design and development of real-time solutions based on Gensym's G2 platform
- Integration of heterogeneous systems via industrial protocols (e.g. OPC, Modbus, TCP/IP)
- Creation of interactive dashboards and user interfaces for process monitoring and control
- Continuous collaboration with customers for application optimisation and solving complex problems
- Installation, configuration and testing of systems on-site, with testing in simulated and real environments
- Drafting of technical documentation and operational training for end users and technical teams

Gensym Srl

City: Genova | Country: Italy

[1995 – 1997] **Application Engineer**

- Collaboration with the sales team for the analysis of customer technical requirements in the pre-sales phase
- Preparation of customised solutions, technical offers and supporting documentation
- Management of demos, conceptual proofs (PoC) and post-sales technical training activities
- Interface between customers, technical department and R&D for the alignment of specifications and product evolution
- Collection of technical feedback from the market and support in defining development roadmaps

Consorzio Genova Ricerche

City: Genova | Country: Italy

[09/1994 – 07/1995] **Consulting**

Winner of the public competition for the research grant on the topic of Analysis of the technical characteristics of the main FACTS implementations in Medium and High Voltage in order to assess the technical-economic potential of FACTS devices

Polizia di Stato - Compartimento Polizia Stradale Liguria City: Genova |

Country: Italy

[1988 – 1989] **Auxiliary agent of the State Police**

**EDUCATION AND
TRAINING**

[1991 – 1994] **PhD in Electrical Engineering**

Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)

| **Final grade:** 110/110 summa cum laude | **Thesis:** Modelling and implementation methodologies of multiterminal high-voltage DC links in software for dynamic studies of integrated DC and AC transmission systems

[1984 – 1990] **Five-year degree in Electrical Engineering**

Università degli Studi di Genova

www.unige.it

| **Final grade:** 110/110 summa cum laude | **Thesis:** Modelling of typical industrial consumers for the analysis and control of an electrical system in the presence of dynamic phenomena

AWARDS

[1997] **Gensym Star 1996**

Winner of the 1996 Gensym Star Award for the Europe, Middle East & Africa Area (EMEA)

[1990] Degree Award

Winner of the Graduation Prize organised by the Genova Ricerche Consortium for engineering graduates in the 1989/90 academic year

PATENTS

A method for managing the load profile of a low voltage electric network and a [2012] control system thereof

Inventor: Enrico RAGAINI, Antonio FIDIGATTI, Federico SILVESTRO, Andrea MORINI e Alessandro DE DANIELI

Description: The invention relates to a method for managing the load profile of a low or medium voltage electric network that is supplied by at least an electric power source. The electric network comprises one or more electric loads and one or more controllable switching devices for disconnecting/connecting said electric loads from/with said electric power source. The method comprises the step of measuring a time window from a reference instant, the step of determining at least a check instant comprised in said time window and the step of executing a load profile control procedure at said check instant. In a further aspect, the invention relates to a control system for executing the above described method.

PROFESSIONAL CERTIFICATIONS

[2023 – Current] **Certified Environmental Acoustics Technician - ENTECA n.12469**

[1990 – Current] **Licensed Professional Engineer – Italy**

PUBLICATIONS

- Aresi, A., R. Biggi, B. Delfino, Andrea Morini, and M. Parodi. 1999. "Uno Strumento Interattivo Per La Progettazione Di Sistemi Di Illuminazione In Gallerie Stradali."
- Aresi, R, D Cirio, S Massucco, Andrea Morini, and Federico Silvestro. 2000. "Dynamic Behavior of an Industrial Power System Under Severe Islanding Operation."
- Aresi, R, D Cirio, Stefano Massucco, Andrea Morini, and Federico Silvestro. 2001. "An ANN Application for Fast Power System Transient Stability Assessment."
- Aresi, R, B Delfino, G. B. Denegri, Stefano Massucco, and Andrea Morini. 1997. "An Artificial Neural Network Approach to Dynamic Security. assesment in Electric Power Systems."
- Bertani, A., A. Borghetti, C. Bossi, Stefano Massucco, Andrea Morini, C. A. Nucci, M. Paolone, and Federico Silvestro. 2007. "A Day-Ahead and Intraday Scheduler of Distributed Resources in a LV Network." IEEE - International Conference on Clean Electrical Power.
- Bertani, A., A. Borghetti, C. Bossi, C. A. Nucci, O. Lamquet, M. Paolone, Stefano Massucco, et al. 2006. "Management of Low Voltage Grid with High Penetration of Distributed Generation: Concepts, Implementations and Experiments." Parigi: CIGRE'.
- Bertani, A., C. Bossi, F. Fornari, Stefano Massucco, A. Morini, and Federico Silvestro. 2005. "Combined Use of Simulation and Test Site Networks for Assessing and Evaluating Distributed Generation Possibilities and Performances." Iondra: IEE.
- Bertani, A, C Bossi, F Fornari, S Massucco, Andrea Morini, and Federico Silvestro. 2005. "Combined Use of Simulation and Test Site Electrical Networks for Assessing and Evaluating Distributed Generation Possibilities and Performances." CIRED.
- Bianchi, S., Stefano Massucco, Andrea Morini, Federico Silvestro, G. Troglio, and G. Viano. 2012. "Studio, Sviluppo e Validazione Di Metodi e Strumenti Innovativi Per La Gestione Di Reti Di Distribuzione Attive Con Generazione Da Fonte Rinnovabile." Milano: AEIT - Milano : Associazione elettrotecnica ed elettronica Italiana AEIT.
- Bignucolo, F, R Caldon, M Frigo, Andrea Morini, A Pitto, and Federico Silvestro. 2008. "Impact of Distributed Generation on Network Security: Effects on Loss-of-Main Protection Reliability." UPEC.
- Bihain, A, D. Cirio, M. Fiorina, R. Lopez, DARIO NATALE Lucarella, Stefano Massucco, D. Ruiz Vega, et al. 2003. "Omases: A Dynamic Security Assessment Tool for the New Market Environment." <https://doi.org/10.1109/PTC.2003.1304418>.
- Bonvini, B., Stefano Massucco, Andrea Morini, and T. Siewierski. 1996. "A Comparative Analysis of Power System Transient Assessment by Direct and Hybrid Methods." Piscataway NJ: IEEE.
- Bonvini, B, Stefano Massucco, Andrea Morini, and T. Siewierski. 1996. "A Comparative Analysis of Power System Transient Stability Assesment by Direct and Hybrid Methods."

Borghetti, A., M. Bosetti, C. Bossi, Stefano Massucco, E. Micolano, Andrea Morini, C. Nucci, M. Paolone, and Federico Silvestro. 2007. "An Energy Resource Scheduler Implemented in the Automatic Management System of a Microgrid Test Facility." IEEE, Piscataway, NJ, United States - AMER INST AERONAUTICS & ASTRONAUTICS, 370 L'ENFANT PROMENADE SW, WASHINGTON, DC 20024-2518. <https://doi.org/10.1109/ICCEP.2007.384193>.

Borghetti, A., M. Bosetti, S. Grillo, A. Morini, M. Paolone, and F. Silvestro. 2007. "A Two-Stage Scheduler of Distributed Energy Resources." Piscataway: IEEE Powertech 2007. <https://doi.org/10.1109/PCT.2007.4538654>.

Borghetti, A., S. Grillo, Stefano Massucco, A. Morini, C. A. Nucci, M. Paolone, and Federico Silvestro. 2010. "Generazione Diffusa, Sistemi Di Controllo e Accumulo in Reti Elettriche." *AEIT* 11/12: 6–15.

Bottino, M. P., B. Delfino, Gio Battista Denegri, Marco Invernizzi, and Andrea Morini. 1994. "Series Compensation Through Static Devices for Active Power Control and Oscillation Damping." Galway: University College Galway.

Bottino, M. P., B. Delfino, Gio Battista Denegri, Marco Invernizzi, and Andrea Morini. 1995. "Enhancement of Power System Performance over Different Time Frames Using Advanced Series Compensation." Yokohama: IEEE Japan.

Bottino, M. P., B. Delfino, G. Garzi, and Andrea Morini. 1995. "Harmonic Interaction in Back-to-Back HVDC Link Between AC Systems at Different Frequencies."

Bottino, M. P., GIO BATTISTA Denegri, Marco Invernizzi, and Andrea Morini. 1995. "A Frequency Response Oriented Approach to Rotor Losses Evaluation in Converter Operated Synchronous Machines." EPE Association.

Bottino, M. P., G. Garzi, and Andrea Morini. 1994. "Harmonic Distortion Due to Back to Back HVDC Links Connecting Power Systems at Different Frequencies."

Bracco, Stefano, Federico Delfino, Paola Laiolo, and Andrea Morini. 2018. "Planning & Open-Air Demonstrating Smart City Sustainable Districts." *SUSTAINABILITY* 10 (12): 4636–49. <https://doi.org/10.3390/su10124636>.

Casamatta, F., D. Cirio, G. Demartini, S. Massucco, Andrea Morini, L. Polese, R. Salvati, P. Scarpellini, and Federico Silvestro. 2001. "A Decision Support System for Preventing Power System Degradation into Emergency Conditions."

Ciapessoni, Emanuele, Diego Cirio, Stefano Massucco, Andrea Morini, Andrea Pitto, and Federico Silvestro. 2017. "Risk-Based Dynamic Security Assessment for Power System Operation & Operational Planning." *ENERGIES* 10, fasc. 4, Article number 475 (4): 1–16. <https://doi.org/10.3390/en10040475>.

Cirio, D., C. Brasca, E. Ciapessoni, Andrea Morini, A. Pitto, and M. Sforza. 2013. "Extended Risk Analysis of Power and ICT Systems."

Cirio, D., G. Demartini, Stefano Massucco, Andrea Morini, P. Scalera, Federico Silvestro, and G. Vimercati. 2003. "Load Control for Improving System Security and Economics." Piscataway, USA: IEEE.

Cirio, D., G. Demartini, M. Salvetti, Stefano Massucco, Andrea Morini, and Federico Silvestro. 2004. "Integrated Simulation Tools for Electric Power System Security Assessment."

Cirio, D., G. Demartini, G. Vimercati, Stefano Massucco, Andrea Morini, P. Scalera, and Federico Silvestro. 2004. "Load as a Potential Contributor to Security Control and Economy Management in Liberalized Power Systems."

Cirio, D., D. Ernst, D. Lucarella, Stefano Massucco, Andrea Morini, Federico Silvestro, M. Pavella, G. Vimercati, and L. Wehenkel. 2005. "Application of an Advanced Transient Stability Assessment and Control Method to a Realistic Power System."

Cirio, D., S. Massucco, Andrea Morini, P. Scalera, and Federico Silvestro. 2002. "Power System Management in Alert Conditions: An Expert System Approach."

Cirio, D., S. Massucco, Andrea Morini, P. Scalera, Federico Silvestro, G. Demartini, and G. Vimercati. 2002. "Load Response Versus Generation Response During System Operation and Contingencies." IEEE, Piscataway, NJ, United States - AMER INST AERONAUTICS & ASTRONAUTICS, 370 L'ENFANT PROMENADE SW, WASHINGTON, DC 20024-2518.

Croce, F., B. Delfino, P. A. Fazzini, Stefano Massucco, A. Morini, Federico Silvestro, and M. Sivieri. 2001. "Operation and Management of the Electric System for Industrial Plants: An Expert System for Load-Shedding Operator Assistance." *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS* 37: 701–8.

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Dassori, Enrico, Alberto Messico, Renata Morbiducci, Andrea Morini, Salvatore Polverino, and Clara Vite. 2018. "L'applicazione Del Concetto Di Smart Village Nel Territorio Italiano." Monfalcone: EdicomEdizioni.

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Dassori, Enrico, Alberto Messico, Renata Morbiducci, Andrea Morini, Salvatore Polverino, and Clara Vite. 2019. "A Smart Village Model for the Italian Coastal Territory." *TEMA* 5, N° 2: 120–36. <https://doi.org/10.17410/tema.v5i2.233>.

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Delfino, B., Gio Battista Denegri, Marco Invernizzi, D. Lucarella, Stefano Massucco, and Andrea Morini. 2003. "La Sicurezza Dei Sistemi Elettrici Per l'energia. Aspetti Metodologici e Tecnologici Sviluppatisi in Due Progetti Europei: OMASES Ed EXaMINE."

Delfino, B., Gio Battista Denegri, Marco Invernizzi, and Andrea Morini. 1993. "Enhancing Emergency and Restorative Controls in Electrical Power Systems via Expert Systems." Milano: ENEL.

Delfino, B., Gio Battista Denegri, Marco Invernizzi, and Andrea Morini. 1995. "Enhancing Flexibility of Restoration Guidelines Through an Integrated Simulator-KB Approach." IEEE Press.

Delfino, B., Gio Battista Denegri, Marco Invernizzi, and Andrea Morini. 1996. "Voltage Stability of Power Systems: Links Between Static and Dynamic Approaches." Bari: IEEE.

Delfino, B., Gio Battista Denegri, Marco Invernizzi, and Andrea Morini. 1997. "Interactions Between AC and DC Transmission System: Modelling for Use in Power System Studies." EPE Association.

Delfino, B., Gio Battista Denegri, Marco Invernizzi, and Andrea Morini. 1997. "REGES: Un Ambiente Integrato Sistema Esperto - Simulatore Per Addestramento Operatore Nel Processo Di Riaccensione Di Una Rete Elettrica." Milano: AEI.

Delfino, B., Gio Battista Denegri, Marco Invernizzi, Andrea Morini, O. Bertoldi, R. Cicoria, and P. Migliardi. 1993. "A KB Module to Remove Real Power Flow Violations While Performing Load Flow Calculations." EPRI.

Delfino, B., Gio Battista Denegri, Marco Invernizzi, Andrea Morini, and G. Dellepiane. 1993. "Evaluating HVDC Control System Performance Under Transient Conditions."

Delfino, B., Gio Battista Denegri, Marco Invernizzi, Andrea Morini, R. Marconato, and P. Scarpellini. 1993. "Sulla Possibilita' Dell'impiego Di Reti Abdottrive Per Il Controllo Dei Sovraccarichi Termici Di Un Sistema Elettrico." Milano: AEI.

Delfino, B., Gio Battista Denegri, Marco Invernizzi, D. Lucarella, Stefano Massucco, and Andrea Morini. 2004. "La Sicurezza Dei Sistemi Elettrici Per l'energia. Aspetti Metodologici e Tecnologici Sviluppatisi in Due Progetti Europei: OMASES Ed EXaMINE." *L'ENERGIA ELETTRICA* 81: 27–37.

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Delfino, B., F. Fornari, S. Massucco, and Andrea Morini. 2000. "Analysis and Implementation of Load-Frequency Control Schemes for Interconnected Systems Under Open Access."

Delfino, B., F. Fornari, S. Massucco, and Andrea Morini. 2000. "Load-Frequency Control: New Perspectives in the Open Access Environment."

Delfino, B., F. Fornari, Andrea Morini, and Renato Procopio. 2001. "Miglioramento Della Qualita' Dell'alimentazione Attraverso l'impiego Di Convertitori a Tensione Impressa."

Delfino, B., F. Fornari, Andrea Morini, and Renato Procopio. 2002. "A Fast Controller for a Series Connected VSC to Mitigate Voltage Sags in Distribution Systems."

Delfino, B., Marco Invernizzi, R. Marconato, Andrea Morini, and P. Scarpellini. 1992. "Considerations on Modelling and Behaviour of Some Typical Industrial Loads Following Large Variations of Frequency and Voltage." Belo Horizonte: Cemig Electrobras.

Delfino, B., Marco Invernizzi, and Andrea Morini. 1992. "Knowledge Based Restoration Guidelines." *IEEE COMPUTER APPLICATIONS IN POWER* 5 (3): 54–59. <https://doi.org/10.1109/67.143276>.

Delfino, B., Stefano Massucco, Andrea Morini, P. Scalera, and Federico Silvestro. 2001. "Implementation and Comparison of Different Under Frequency Load-Shedding Schemes." Piscataway NJ: IEEE - INSTITUTE of ELECTRICAL; ELECTRONICS ENGINEERS.

Delfino, Bruno, GIO BATTISTA Denegri, Marco Invernizzi, Andrea Morini, E. BONINI CIMA, R. Marconato, and P. Scarpellini. 1996. "Black-Start and Restoration of a Part of the Italian HV Network: Modelling and Simulation of a Field Test." *IEEE TRANSACTIONS ON POWER SYSTEMS* 11(3): 1371–79. <https://doi.org/10.1109/59.535677>.

Delfino, Federico, F. Fornari, Stefano Massucco, Andrea Morini, and Renato Procopio. 2005. "Compensation of Voltage Sags in a Radial Network Feeding a Thyristor Bridge Controlled Load." Piscataway: IEEE, Piscataway, NJ, United States - AMER INST AERONAUTICS & ASTRONAUTICS, 370 L'ENFANT PROMENADE SW, WASHINGTON, DC 20024-2518. <https://doi.org/10.1109/PTC.2005.4524511>.

Delfino, Federico, F. Fornari, Stefano Massucco, A. Morini, and Renato Procopio. 2005. "Compensation of Voltage Sags in a Radial Network Feeding a Thyristor Bridge Controlled Load." Piscataway: IEEE.

Denegri, G. B., R Marconato, Andrea Morini, Paolo Pinceti, and P. Scarpellini. 1992. "Performances of the Auxiliary Systems of Thermal Power Plants with UP Boilers Following Large Perturbations." Emanuele, Ciapessoni, Cirio Diego, Pitto Andrea, Stefano Massucco, Andrea Morini, and Sforza Marino. 2013. "Assessing Security of Power and ICT Systems via a Risk-Based Approach Within an Integrated framework AEIT Annual Conference 2013." IEEE, Piscataway, NJ - United States. <https://doi.org/10.1109/AEIT.2013.6666792>.

Fornari, F, S Massucco, Andrea Morini, and Federico Silvestro. 2004. "Il Progetto GDLINK: Un Contributo All'analisi Delle Prospettive Per Il Controllo Della Generazione Distribuita." ANIPLA.

Grillo, Samuele, Stefano Massucco, Andrea Morini, Andrea Pitto, and Federico Silvestro. 2010. "Microturbine Control Modeling to Investigate the Effects of Distributed Generation in Electric Energy Networks." *IEEE SYSTEMS JOURNAL* 4 (3): 303–12. <https://doi.org/10.1109/JSYST.2010.2059190>.

Grillo, S., Stefano Massucco, Andrea Morini, A. Pitto, and Federico Silvestro. 2007. "A Microturbine Model Including Its Control for the Investigation of the Effects of Distributed Generation in Distribution Networks."

Grillo, S., Stefano Massucco, Andrea Morini, A. Pitto, and Federico Silvestro. 2008. "Bifurcation Analysis and Chaos Detection in Power Systems."

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Grillo, S., Stefano Massucco, Andrea Morini, S. Scalari, P. Scalera, and Federico Silvestro. 2009. "Distribution Management System (DMS) Per La Gestione Intelligente Di Reti Elettriche." Milano: AEIT - Milano : Associazione elettrotecnica ed elettronica italiana AEIT.

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LANGUAGE SKILLS

Mother tongue(s): Italian **Other**

language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

Genova, 9/07/2025



