

Curriculum formativo, didattico, scientifico e professionale del candidato**Dichiarazione sostitutiva di certificazioni**

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

Dichiarazione sostitutiva dell'atto di notorietà

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi dell'avviso di selezione	n. 60/2033
Informazioni aggiornate al	01/02/2024
Nome e Cognome	GIAN GIUSEPPE SOMA
Data di nascita	01/12/1980

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
2009-oggi	Libero professionista	Progettazione di impianti elettrici civili ed industriali

Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
08/03/2005	Diploma di Laurea in Ingegneria Elettrica, con la votazione di 110/110 e lode, con tesi dal titolo "Sviluppo di un EMS neurale per il controllo delle reti di distribuzione"	Università di Cagliari
27/02/2009	Dottore di Ricerca in Ingegneria Industriale, con tesi dal titolo "Microreti di distribuzione per il miglioramento dell'efficienza energetica nel terziario e nell'industria"	Università di Cagliari

Pubblicazioni / Convegni

1. M. TRONCIA, S. RUGGERI, G. G. SOMA, F. PILO, J. P. C. ÁVILA, D. MUNTONI, I. M. GIANINONI, "Strategic decision-making support for distribution system planning with flexibility alternatives", in Sustainable Energy, Grids and Networks, doi: <https://doi.org/10.1016/j.segan.2023.101138>;
2. G. PISANO, S. RUGGERI, G. G. SOMA, D. FALABRETTI, S. GRILLO, F. GULOTTA, F. PILO, "Impact of Electrical Vehicle Private Charging Stations on the Quality of the Low Voltage Network Supply," in IEEE Open Access Journal of Power and Energy, doi: 10.1109/OAJPE.2023.3258254, 2023;
3. G. PISANO, G. CELLI, F. PILO, G. G. SOMA, "Impact chains' analysis for making resilient the distribution system", in CIGRE SCIENCE & ENGINEERING n°26, November 2022, ISSN: 2426-1335 CIGRE;
4. F. PILO, G. PISANO, S. RUGGERI, G. G. SOMA, S. CONTI, "LV network flexibility for reducing the network impact of fast-charging stations", in Proc. CIRED Workshop 2022 Conference, Porto 1-4 June 2022;
5. G. CELLI, M. GALICI, M. MOUSAVI, F. PILO, G. G. SOMA, "Grey Wolf Optimisation for Maximising Benefits of Storage Devices in Distribution Systems", in Proc. MELECON 2022, Palermo 14-16 June 2022;
6. F. PILO, S. RUGGERI, G. PISANO, G. G. SOMA, D. FALABRETTI, S. GRILLO, F. GULOTTA, "Impact of Electrical Vehicle Residential Charging Stations on the Quality of the Low Voltage Network Supply", in Proc.

ICHQP 2022 Conference, Naples 29 May – 1 June 2022;

7. G. PISANO, G. CELLI, F. PILO, G. G. SOMA, "Impact chains' analysis for making resilient the distribution system", in Proc. CIGRE 2022 Kyoto Symposium (hybrid conference) 2022;
8. G. CELLI, M. GALICI, F. PILO, G. PISANO, S. RUGGERI, G. G. SOMA, "Risk-based Distribution Planning tool for a fair comparison among conventional planning solutions and flexibility exploitation", in Proc. CIGRE 2022 Kyoto Symposium (hybrid conference) 2022;
9. N. NATALE, F. PILO, G. PISANO, G. G. SOMA, "Quantitative Assessment of Flexibility at the TSO/DSO Interface Subject to the Distribution Grid Limitations", Appl. Sci. 2022, 12, 1858. <https://doi.org/10.3390/app12041858>;
10. G. CELLI, F. PILO, G. PISANO, S. RUGGERI, G. G. SOMA, "Risk-oriented planning for flexibility-based distribution system development", Sustainable Energy, Grids and Networks, Volume 30, 2022, 100594, ISSN 2352-4677, <https://doi.org/10.1016/j.segan.2021.100594>;
11. F. PILO, G. PISANO, G. G. SOMA, S. RUGGERI, G.M. CASOLINO, A.R. DI FAZIO, A. LOSI, M. RUSSO, A. BERIZZI, D. FALABRETTI, M. MERLO, F. BIGNUCOLO, M. COPPO, R. TURRI, P. PELACCHI, D. POLI, G. VALTORTA, G. DI LEMBO, N. CORSI, S. FERRERO, S. CIANOTTI, L. D'ORAZIO, C. MARINO, A. BARONE, G. LENAZ, "Un'importante risorsa per le reti del futuro: i servizi di flessibilità", Rivista Ufficiale AEIT - Volume 107 - Numero 9/10 settembre/ottobre 2021 - ISSN 1825-828X;
12. G. CELLI, F. PILO, G. PISANO, S. RUGGERI, G. G. SOMA, F. CAZZATO, G. VALTORTA, M. DI CLERICO, S. FERRERO, C. NOCE, "Assessment of the impact of flexibility services on distribution network development", in Proc. CIGRE-SEERC (virtual conference) 2021;
13. F. PILO, G. PISANO, S. RUGGERI, G. G. SOMA, D. FALABRETTI, S. GRILLO, F. GULOTTA, "Impact of e-mobility participation in the ancillary service market on the operation of high-density urban low voltage distribution networks", in Proc. AEIT AUTOMOTIVE 2021 Virtual Conference, 17-19 November 2021;
14. S. MOCCI, F. PILO, G. G. SOMA, S. RUGGERI, "Smart mobility integration in port microgrids with a Multi-Agent control system - POSEIDON", in Proc. AEIT 2021 Conference (virtual), 4-8 October 2021.
15. G. CELLI, F. PILO, G. PISANO, G. G. SOMA, "Application of Resilience Area Model to the Electric Distribution System", in Proc. CIRED 2021 Conference (virtual), Geneve 20-23 September 2021;
16. F. PILO, S. MOCCI, G. G. SOMA, "Optimal planning of port microgrids to improve energy efficiency by the integration of res, flexible loads and smart mobility - POSEIDON", in Proc. CIRED 2021 Conference (virtual), Geneve 20-23 September 2021;
17. G. CELLI, F. PILO, G. PISANO, S. RUGGERI, G. G. SOMA, "Synthetic representation of flexibility from aggregated LV Distributed Energy Resources", in Proc. CIRED 2021 Conference (virtual), Geneve 20-23 September 2021;
18. S. MOCCI, F. PILO, G. G. SOMA, "Smart mobility integration in port microgrids with a Multi-Agent control system – POSEIDON" in Proc. CIRED 2021, 20-23 September 2021;
19. G. G. SOMA, Optimal Sizing and Placement of Capacitor Banks in Distribution Networks Using a Genetic Algorithm. Electricity 2021, 2, 187-204. <https://doi.org/10.3390/electricity2020012>.
20. G. CELLI, M. GALICI, F. PILO, S. RUGGERI, G. G. SOMA, "Uncertainty Reduction on Flexibility Services Provision from DER by Resorting to DSO Storage Devices". Appl. Sci. 2021, 11, 3395. <https://doi.org/10.3390/app11083395>;
21. G. CELLI, F. PILO, G. PISANO, S. RUGGERI, G. G. SOMA, "Relieving Tensions on Battery Energy Sources Utilization among TSO, DSO, and Service Providers with Multi-Objective Optimization". Energies 2021, 14,

22. G. M. TINA, S. CAVALIERI, G. G. SOMA, G. VIANO, S. DE FIORE, P. GRILLO, L. DISTEFANO, "Main features of an aggregator's platform for the management of distributed energy resources - PASCAL project case study", in Proc. AEIT Conference 2020 1st Virtual Edition, 22-25 September 2020;
23. G. CELLI, F. PILO, S. RUGGERI, G. G. SOMA, "Multi-objective optimization of storage devices in distribution networks", in Proc. CIRED 2020 Workshop, Berlin 22-23 September 2020;
24. N. NATALE, F. PILO, G. PISANO, G. G. SOMA, "Market Participation of Distributed Energy Resources for offering Flexibility Services", in Proc. 17th International Conference on the European Energy Market (EEM), Stockholm 16-18 September 2020;
25. G. CELLI, L. SECHI, G. G. SOMA, "A Robust Approach to manage Demand Response for power distribution system planning", in Proc. International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Liege, 18-21 August 2020;
26. E. GHIANI, F. PILO, G. G. SOMA, E. DE TUGLIE, A. CAGNANO, S. CONTI, "Case studies of Microgrid systems" Book Chapter 14 in the Book "Microgrid for Rural Areas: Research and Case Studies", Energy Engineering (IET), ISBN-13: 978-1-78561-998-4, DOI: 10.1049/PBPO160E, 2020;
27. G. PISANO, N. CHOWDHURY, M. COPPO, N. NATALE, G. PETRETTO, G. G. SOMA, R. TURRI, F. PILO, "Synthetic Models of Distribution Networks Based on Open Data and Georeferenced Information", *Energies* 2019, 12, DOI: <https://doi.org/10.3390/en12234500>;
28. G. CELLI, F. PILO, S. RUGGERI, G. G. SOMA, "Impact study on the utilisation of DER Flexibilities for DSO Network Management", in Proc. CIGRE Symposium 2019, Chengdu 20-26 Settembre 2019;
29. G. G. SOMA, F. PILO, S. CONTI, "Multi-Objective Integrated Planning of Fast Charging Stations", in Proc. Automotive 2019, Torino 2-4 Luglio 2019;
30. S. MOCCI, M. PORRU, A. SERPI, G. G. SOMA, "The POSEIDON Project: microgrid in port areas to improve energy efficiency by the integration of RES, flexible loads and smart mobility", in Proc. Synergymed 2019, Cagliari 28-30 Maggio 2019;
31. N. NATALE, F. PILO, G. PISANO, G. G. SOMA, "Scheduled profile at TSO/DSO interface for reducing balancing costs", in Proc. Synergymed 2019, Cagliari 28-30 Maggio 2019;
32. G. CELLI, F. PILO, G. PISANO, G. G. SOMA, L. LO SCHIAVO, R. VAILATI, "Analisi costi-benefici dei sistemi di accumulo nelle reti di distribuzione", *Rivista Energia Elettrica*, n. 2, vol. 96, Marzo-Aprile 2019;
33. F. PILO, N. CHOWDHURY, F. PILO, G. G. SOMA, M. TRONCIA, I. M. GIANINONI, "Multi-Criteria Analysis for decision making applied to active distribution network planning", in "Electric Power Systems Research", Volume 164, November 2018, Pages 103-111;
34. G. CELLI, L. LO SCHIAVO, G. PISANO, F. PILO, G. G. SOMA, R. VAILATI, "Assessment of Energy Storage Systems Installation in Smart Distribution Networks", Congresso AEIT 2018, Bari 3-5 Ottobre 2018;
35. G. CELLI, F. PILO, G. PISANO, G. G. SOMA, "Distribution energy storage investment prioritization with a real coded multi-objective Genetic Algorithm", in "Electric Power Systems Research", Volume 163, October 2018, Pages 154-163;
36. G. CELLI, F. PILO, G. PISANO, G. G. SOMA, "Implementation of Energy Storage in MV distribution networks - A Cost/Benefit Analysis in the Italian regulatory framework", in Proc. CIGRE' Session 2018, Parigi 26-31 Agosto 2018;
37. G. CELLI, F. PILO, G. MONNI, G. G. SOMA, "Optimal Multi-Objective Allocation of Fast Charging Stations", in Proc. 18th IEEEIC, Palermo 12-15 Giugno 2018;

- 38.S. MOCCI, G. G. SOMA, "Multi-Objective Optimization of Energy Storage System scheduling in an Italian Local Energy Community", in Proc. Workshop CIRED 2018, Ljubljana, 7-8 Giugno 2018;
- 39.G. CELLI, F. PILO, G. PISANO, G. G. SOMA, "Including Voltage Dips Mitigation in Cost-Benefit Analysis of Storages", in Proc. Proc. ICHQP 2018: 18th International Conference on Harmonics and Quality of Power, Ljubljana, 13-16 Maggio 2018;
- 40.G. CELLI, E. GHIANI, S. MOCCI, F. PILO, G. G. SOMA, Book Chapter: "Multi-objective Modeling and Optimization for DG-Owner and Distribution Network Operator in Smart Distribution Networks", in "Operation of distributed energy resources in smart distribution networks", 2018;
- 41.G. CELLI, F. PILO, G. PISANO, G. G. SOMA, "Cost/benefit analysis for energy storage exploitation in distribution systems", in Proc. CIRED 2017, Glasgow 12-15 Giugno 2017;
- 42.G. CELLI, S. MOCCI, F. PILO, G. G. SOMA, "Multi-Microgrids for innovative distribution networks in rural areas", in Proc. MEDPOWER 2016, Belgrado 6-9 Novembre 2016;
- 43.N. NATALE, F. PILO, G. PISANO, G. G. SOMA, "Distribution System Participation to the Italian Ancillary Service Market", Congresso AEIT 2016, Capri 5-7 Ottobre 2016;
- 44.M. COPPO, F. CAPPELLETTO, R. CALDON, R. TURRI, N. NATALE, F. PILO, G. PISANO, G. G. SOMA, "Ancillary services by DG and storage systems in distribution networks for energy market participation", Congresso AEIT 2016, Capri 5-7 Ottobre 2016;
- 45.CELLI G, GHIANI E, MOCCI S, PILO F, SOMA G G, VERTUCCIO C (2016), "Probabilistic Planning of Multi-Microgrids with Optimal Hybrid Multi-Generation sets", in Proc. CIGRE' Session, Parigi 22-26 Agosto 2016;
- 46.PILO F, SOMA G G, PISANO G, COPPO M, TURRI R (2015), "Cooperative centralised and decentralised energy management systems for active networks", in Proc. CIRED 2015, Lione 15-18 Giugno 2015;
- 47.CELLI G, SOMA G G, PILO F, LACU F, MOCCI S, NATALE N (2014), "Aggregated Electric Vehicles load profiles with Fast Charging Stations", in Proc. PSCC 2014 - 18th Power Systems Computation Conference, Wroclaw 18-22 Agosto 2014;
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- 53.PILO F., CELLI G., MOCCI S., SOMA G (2010). Active Distribution Network Evolution in Different Regulatory Environments. In: MEDPOWER 2010. , ISBN: 9781849193191, Cipro, 7-10 Novembre 2005, doi: 10.1049/cp.2010.0937;
- 54.PILO F., PISANO G., SOMA G (2009). Digital model of a Distribution Management System for the optimal

- operation of active distribution systems. In: 20th International Conference and Exhibition on Electricity Distribution, CIRED 2009. ISBN: 9781849191265, Prague (Czech Republic), 08/06-11/06/2009, doi: 10.1049/cp.2009.1031;
- 55.PILO F., PISANO G., SOMA G (2009). Advanced DMS to Manage Active Distribution Networks. In: IEEE Bucharest PowerTech: Innovative Ideas Toward the Electrical Grid of the Future. ISBN: 9781424422357, Bucharest, 28/6/2009-2/7/2009, doi: 10.1109/PTC.2009.5281947;
- 56.CELLI G., MOCCI S., PILO F., SOMA G (2008). A Multi-Objective Approach for the Optimal Distributed Generation Allocation with Environmental Constraints. In: 10th International Conference on Probabilistic Methods Applied to Power Systems, PMAPS 2008. ISBN: 9781934325216, Puerto Rico, 25-28 May 2008;
- 57.PILO F., PISANO G., SOMA G (2008). Digital model of a Distribution Management System for the optimal operation of active distribution systems. In: CIRED Seminar 2008: SmartGrids for Distribution. ISBN: 9780863419355, Frankfurt (DE), 23 – 24 giugno 2008, doi: 10.1049/ic:20080481;
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Altre attività scientifiche

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Ulteriori informazioni pertinenti

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Biancavilla (CT), 01/02/2024