


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. 05/2033
Informazioni aggiornate al	08/03/2023
Nome e Cognome	GIAN GIUSEPPE SOMA
Data di nascita	

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. 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>;
2. 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>;
3. 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. LENA Z, "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;
4. 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;

5. 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;
6. 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.
7. 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;
8. 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;
9. 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;
10. 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;
11. 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>.
12. 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>;
13. 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, 239.
14. 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;
15. 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;
16. 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;
17. 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;
18. 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;
19. 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>;
20. 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;

21. G. G. SOMA, F. PILO, S. CONTI, "Multi-Objective Integrated Planning of Fast Charging Stations", in Proc. Automotive 2019, Torino 2-4 Luglio 2019;
22. 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;
23. 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;
24. 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;
25. 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;
26. 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;
27. 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;
28. 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;
29. 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;
30. 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;
31. 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;
32. 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;
33. 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;
34. 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;
35. 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;
36. 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;
37. 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;
38. 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;
39. 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;
 40. COPPO M, PELACCHI P, PILO F, PISANO G, SOMA G, TURRI R (2014), "The Italian smart grid pilot projects: Selection and assessment of the test beds for the regulation of smart electricity distribution", Electric Power Systems Research, DOI: 10.1016/j.epsr.2014.06.018;
 41. CELLI G, GHIANI E, PILO F, SOMA G (2013). Reliability assessment in smart distribution networks. ELECTRIC POWER SYSTEMS RESEARCH, ISSN: 0378-7796, doi: 10.1016/j.epsr.2013.07.001;
 42. CELLI G, GHIANI E, PILO F, SOMA G (2013). New electricity distribution network planning approaches for integrating renewable. WILEY INTERDISCIPLINARY REVIEWS. ENERGY AND ENVIRONMENT, ISSN: 2041-840X, doi:10.1002/wene.70;
 43. PILO F., PISANO G., SOMA G (2011). Optimal Coordination of Energy Resources With a Two-Stage Online Active Management. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, ISSN: 0278-0046, doi: 10.1109/TIE.2011.2107717;
 44. PILO F., CELLI G., MOCCI S., SOMA G (2010). Multi-objective programming for optimal DG integration in active distribution systems. In: IEEE PES General Meeting 2010. ISBN: 9781424483570, Minneapolis USA, 25-29 Luglio 2010, doi: 10.1109/PES.2010.5590087;
 45. 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;
 46. 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;
 47. 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;
 48. 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;
 49. 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;
 50. PILO F., PISANO G., SOMA G (2008). Optimal Placement of Custom Power Devices to Mitigate Voltage Dips in Distribution Networks. In: ICHQP 2008: 13th International Conference on Harmonics and Quality of Power. ISBN: 9781424417704, Australia, 2008, doi: 10.1109/ICHQP.2008.4668811;
 51. PILO F, PISANO G, SOMA G (2007). Considering Voltage Dips Mitigation in Distribution Network Planning. In: IEEE Lausanne POWERTECH. ISBN: 9781424421909, Losanna, 1-5 Luglio 2007, doi: 10.1109/PCT.2007.4538542;
 52. PILO F, PISANO G, SOMA G (2007). Neural Implementation of MicroGrid Central Controllers. In: INDIN 2007 – 5TH INTERNATIONAL CONFERENCE ON INDUSTRIAL INFORMATICS. ISBN: 9781424408641,

VIENNA, 23-27 Luglio 2007, doi: 10.1109/INDIN.2007.4384897;

53.CELLI G, PILO F, PISANO G, SOMA G (2006). Stochastic assessment of voltage dips for a PQ oriented distribution system development. In: PMAPS 2006 – 9th INTERNATIONAL CONFERENCE ON PROBABILISTIC METHODS APPLIED TO POWER SYSTEMS. ISBN: 9789171783523, Stoccolma, 11-15 Giugno 2006, doi: 10.1109/PMAPS.2006.360399;

54.CELLI G, PILO F, PISANO G, SOMA G (2005). Optimal Participation of a Microgrid to the Energy Market with an Intelligent EMS. In: IPEC 2005 – 7th International Power Engineering Conference. ISBN: 9789810544690, Singapore, 29 novembre- 2 dicembre 2005.

Altre attività scientifiche

Ulteriori informazioni pertinenti

Biancavilla (CT), 08/03/2023

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