

Pietro COLELLA

PERSONAL INFORMATION

PLACE OF BIRTH: Biella, Italy
EMAIL: pietro.colella@polito.it
WEBSITE: http://www.swas.polito.it/rubrica/scheda_pers.asp?matricola=031299

QUALIFICATION

2019-PRESENT	President of the Young Member Group of the Italian Association of Electrical, Electronics, Automation, Information and Communication Technology (AEIT) - Sezione Piemonte e Valle d'Aosta
2013-PRESENT	Registered professional engineer in Italy
2013-2016	Ph.D. in ELECTRICAL ENGINEERING Politecnico di Torino , Torino, Italy Thesis title: "Touch voltage in MV systems: elements to identify a Global Earthing System" Supervisor: Prof. Riccardo Tommasini Date of Ph.D. Award: 26 April 2016
2009-2012	M.Sc. in ELECTRICAL ENGINEERING Politecnico di Torino , Torino, Italy Thesis title: "Extension of dangerous areas for explosive atmospheres" 110/110 Supervisor: Prof. Riccardo Tommasini
2005-2009	B.Sc. in ELECTRICAL ENGINEERING Politecnico di Torino , Torino, Italy Thesis title: "Characterization of an hydroelectric power plant: efficiencies and economical issues" 94/110 Supervisor: Prof. Roberto Napoli

MEMBERSHIP

2016 - PRESENT	Member of IEEE
2015 - PRESENT	Member of IEEE - Italy Section
2015 - PRESENT	Member of the Italian Association of Electrical, Electronics, Automation, Information and Communication Technology (AEIT)
2014 - PRESENT	Member of the "Gruppo Universitario Sistemi Elettrici per l'Energia" (GUSEE)

RESEARCH EXPERIENCE

SEPT. 2018 - PRESENT	Assistant Professor Politecnico di Torino , Torino, Italy Energy Department “Galileo Ferraris” Power systems group Research topics: <ul style="list-style-type: none">• predictive maintenance in power systems;• electricity market;• electrical network;• electrical safety and energy consumption in railway systems;• grounding systems.
FEB. 2017 - AUG. 2018	Post-doctoral fellow Politecnico di Torino , Torino, Italy Energy Department Power systems group - Advisor: Prof. Enrico Pons
NOV. 2016 - GEN. 2017	Post-doctoral fellow Politecnico di Torino , Torino, Italy Energy Department Power systems group - Advisor: Prof. Riccardo Tommasini
JUNE 2016 - SEPT. 2016	Research Scholarship Politecnico di Torino , Torino, Italy Energy Department Power systems group - Advisor: Prof. Riccardo Tommasini
NOV. 2013 - DEC. 2013	Research Scholarship Politecnico di Torino , Torino, Italy Energy Department Supervisor: Prof. Michele Tartaglia

RESEARCH PROJECTS

2022-PRESENT	Participation to the research project "Data Cellar" European Union's Horizon Europe research and innovation programme , Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Ettore Bompard
2018-PRESENT	Technical specification on the 'model-based' methodologies for the definition of alternative bidding zones Terna S.p.A. , Rome, Italy, Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Gianfranco Chicco
2016-PRESENT	Setting of the overcurrent relays installed in the urban rail traction systems of Turin Infra.To , Turin, Italy, Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Enrico Pons and Prof. Riccardo Tommasini
2022-2023	Study of a methodology for the conversion of an existing fleet of diesel buses into a fleet of electric buses Peec Mobility Motor Vehicle Assembly Co. L.L.C , Dubai, United Arab Emirates, Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Ettore Bompard
2021-2022	Longer-term effects on the EU power system of pandemic persistence scenarios Joint Research Centre (JRC) - European Commission, Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Ettore Bompard
2021-2022	Study on the application of clustering algorithms on nodal simulation results to identify alternative bidding zone configurations European Union Agency for the Cooperation of Energy Regulators (ACER) , Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Gianfranco Chicco
2019-2020	Advanced analytics and machine learning algorithms for predictive maintenance on medium voltage distribution networks Enel S.p.A. , Rome, Italy, Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Ettore Bompard
2018-2020	Transmission system net-emulator for supporting short term market strategies Enel S.p.A. , Rome, Italy, Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Ettore Bompard
2013-2016	Impact of Extraneous Conductive Parts on Global Earthing Systems (METERGLOB) Ministero dello Sviluppo Economico , Rome, Italy, Electrical Energy Group - Politecnico di Torino - DENERG, with Prof. Roberto Napoli

PROFESSIONAL PRACTICE

2017-PRESENT	Professional advice GTT S.p.A. , Turin, Italy Evaluation of the electrical risk in GTT work activities
2016-2019	Professional advice GTT S.p.A. , Turin, Italy Electrical safety analysis of the railway systems “Torino-Ceres” and “Canavesana” for the protection against indirect contacts and against the corrosion effects of stray currents with Prof. Enrico Pons and Prof. Riccardo Tommasini
2016-2018	Professional advice Sagat S.p.A. , Turin, Italy Evaluation of the risk connected to lightning strikes in airport operations with Prof. Enrico Pons and Prof. Riccardo Tommasini
2015	Professional advice City councils of Bussoleno, Susa and Gravere , Italy Electromagnetic impact of underground HVDC cables with Prof. Enrico Pons, Prof. Vittorio Camarchia and Prof. Riccardo Tommasini
2015	Professional advice Union Industries S.p.A. , San Giacomo di Masserano, Italy Energy audit
2014	Professional advice Union Industries S.p.A. , San Giacomo di Masserano, Italy Risk management - Protection against lightning
2014	Professional advice Ahlstrom Torino S.p.A. , Mathi, Italy Risk management - Protection against lightning with Prof. Riccardo Tommasini
2013	Electrical designer Gozzo Impianti S.p.A. , Pianezza, Italy Design of the “Centre international de conférences” in Algiers, Algeria

TEACHING EXPERIENCE

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|------|---|
| 2022 | Teaching assistant for “Electrical Systems and Safety”
M.Sc. in Electrical Engineering
Politecnico di Torino , Torino, Italy |
| 2022 | Teaching assistant for “Fundamentals of Electrical Systems”
B.Sc. in Electrical Engineering
Politecnico di Torino , Torino, Italy |
| 2021 | Teaching assistant for “Interdisciplinary projects”
M.Sc. in ICT for Smart Societies (ICT per la Società del Futuro)
Politecnico di Torino , Torino, Italy |
| 2021 | Teaching assistant for “Electrical Systems and Safety”
B.Sc. in Electrical Engineering
Politecnico di Torino , Torino, Italy |
| 2019 | Teaching assistant for “Electrical Systems and Safety”
B.Sc. in Electrical Engineering
Politecnico di Torino , Torino, Italy |
| 2018 | Teaching assistant for “Electrical Systems and Safety”
B.Sc. in Electrical Engineering
Politecnico di Torino , Torino, Italy |
| 2017 | Teaching assistant for “Electrical Systems and Safety”
B.Sc. in Electrical Engineering
Politecnico di Torino , Torino, Italy |
| 2013 | Teaching assistant for “Electrical Engineering”
B.Sc. in Civil Engineering
Politecnico di Torino , Torino, Italy |

TEACHING SUPPORT: THESIS SUPERVISION

M.Sc. theses in Electrical Engineering at Politecnico di Torino, Torino, Italy

- 2023 | *“Identificazione delle zone di mercato nei nuovi scenari energetici*
Author: F. Raimondo
Supervisor: Prof. Ettore Bompard
Co-Supervisor: Prof. Tao Huang, **Dr. Pietro Colella**
To be completed
- 2022 | *“The impact of the formation of Bidding Zones on Capacity Allocation and Renewable penetration”*
Author: S. Vessella
Supervisor: Prof. Ettore Bompard
Co-Supervisor: Prof. Tao Huang, **Dr. Pietro Colella**
- 2021 | *“Individuazione di anomalie nei parametri elettrici di linee e trasformatori nelle reti di trasmissione”*
Author: S. Beccaria
Supervisor: **Dr. Pietro Colella**
- 2021 | *“A web-based georeferenced modelling tool for the Turin tramway network electrification system”*
Author: F. Barlocco
Supervisor: Prof. Enrico Pons
Co-supervisor: **Dr. Pietro Colella**, Dr. Edoardo Patti, Dr. Lorenzo Bottaccioli
- 2019 | *“Analisi dei dati di consumo e diagnosi energetica del sito G.T.T. di Collegno e delle stazioni metropolitane Re Umberto e Porta Nuova”*
Author: G. Albonico
Supervisor: Prof. Enrico Pons
Co-supervisor: **Dr. Pietro Colella**, A. Tortora, M. Costa
- 2019 | *“Analisi dei dati di consumo ai fini della diagnosi energetica del sito virtuale di GTT”*
Author: A. Dutto
Supervisor: Prof. Enrico Pons
Co-supervisor: **Dr. Pietro Colella**, A. Tortora, M. Costa
- 2019 | *“Analysis of the italian electricity market: impact of renewable generation and demand response”*
Author: G. Sollami
Supervisor: Prof. Gianfranco Chicco
Co-supervisor: **Dr. Pietro Colella**
- 2019 | *“Modeling and Simulating the Italian Ancillary Services Market”*
Author: J. J. Fernandez Garcia
Supervisor: Prof. Ettore Bompard
Co-supervisor: Dr. Tao Huang, **Dr. Pietro Colella**
- 2019 | *“Criticità legate alla frenatura rigenerative nelle reti tranviarie”*
Author: L. Abrate
Supervisor: Prof. Enrico Pons
Co-supervisor: **Dr. Pietro Colella**

- 2018 | *“Procedura automatica per il calcolo delle correnti di cortocircuito e dei flussi di potenza nella rete tranviaria torinese”*
 Author: L. Bertolone Citin
 Supervisor: Prof. Enrico Pons
 Co-supervisor: **Dr. Pietro Colella**
- 2018 | *“Perfezionamento e validazione delle tarature delle protezioni per la rete tranviaria torinese”*
 Author: S. Aral
 Supervisor: Prof. Enrico Pons
 Co-supervisor: **Dr. Pietro Colella**
- 2018 | *“Le motrici in servizio sulla rete tranviaria torinese: prestazioni e criticità”*
 Author: R. Sinatra
 Supervisor: Prof. Enrico Pons
 Co-supervisor: **Dr. Pietro Colella**
- 2018 | *“Progettazione di un laboratorio per la verifica delle prove ad impulso”*
 Author: E. Stuerdo
 Supervisor: Prof. Enrico Pons
 Co-supervisor: **Dr. Pietro Colella**
- 2017 | *“Studio sperimentale delle correnti ordinarie e di guasto nella rete tranviaria torinese per l’ottimizzazione delle protezioni”*
 Author: L. Bramardi
 Supervisor: Prof. Enrico Pons
 Co-supervisor: **Dr. Pietro Colella**
- 2016 | *“Analisi di guasti in una rete di distribuzione con generazione distribuita”*
 Author: A. Pisano
 Supervisor: Prof. Riccardo Tommasini
 Co-Supervisors: Prof. Enrico Pons, **Dr. Pietro Colella**
- 2016 | *“Guasto a terra negli Impianti di Terra Globale: Influenza delle masse estranee sull’andamento del potenziale sul terreno”*
 Author: G. Carbone
 Supervisor: Prof. Riccardo Tommasini
 Co-Supervisor: Prof. Enrico Pons
- 2013 | *“Ripartizione della corrente di guasto a terra nelle reti di distribuzione MT”*
 Author: F. Bertoletti
 Supervisor: Prof. Riccardo Tommasini
 Co-Supervisor: Prof. Enrico Pons

B.Sc. theses in Electrical Engineering at Politecnico di Torino, Torino, Italy

- 2023 | *“Impatto dei sistemi di trasporto elettrici per il raggiungimento degli obiettivi di neutralità climatica”*
Author: V. Fabbricatore
Supervisor: **Dr. Pietro Colella**
Co-supervisors: Prof. Ettore Bompard, Dr. Giorgio Benedetto
- 2023 | *“Strategie per raggiungere gli obiettivi di decarbonizzazione della città di Torino”*
Author: E. Genovese
Supervisor: Prof. Ettore Bompard
Co-supervisors: **Dr. Pietro Colella**
- 2021 | *“Studio della percezione umana alle correnti multi-frequenza”*
Author: L. Curcio
Supervisor: Prof. Fabio Freschi
Co-supervisors: **Dr. Pietro Colella**
- 2021 | *“Creazione di un database per l’analisi degli incidenti dovuti all’arco elettrico”*
Author: I. T. Dragos
Supervisor: **Dr. Pietro Colella**
Co-supervisors: Prof. Enrico Pons
- 2021 | *“Veicoli ad alimentazione elettrica e/o ibridi-da: gestione del rischio”*
Author: T. Melis
Supervisor: **Dr. Pietro Colella**
Co-supervisors: Prof. Enrico Pons
- 2021 | *“Metodologie di valutazione e gestione del rischio dovuto all’arco elettrico”*
Author: P. M. Micheletti
Supervisor: **Dr. Pietro Colella**
Co-supervisors: Prof. Enrico Pons
- 2020 | *“Caratterizzazione della frenatura elettrica di motrici tranviarie a pavimento ribassato T.P.R.”*
Author: G. Quacquarelli
Supervisor: **Dr. Pietro Colella**
Co-supervisors: Prof. Enrico Pons
- 2016 | *“Messa a terra del neutro nei sistemi in media tensione tramite bobina di soppressione d’arco”*
Author: A. Fueri
Supervisor: Prof. Riccardo Tommasini
Co-supervisors: Prof. Enrico Pons, **Dr. Pietro Colella**
- 2016 | *“Protezione contro guasti da arco elettrico: dispositivi e test”*
Author: A. Mandarano
Supervisor: Prof.ssa Angela Russo
Co-supervisors: **Dr. Pietro Colella**
- 2015 | *“Impianti elettrici semipermanenti: Progettazione, montaggio e smontaggio di impianti feristici”*
Author: M. G. Ballatore
Supervisor: Prof. Roberto Napoli

- 2014 | “*Soglia di percezione per correnti non sinusoidali*”
 Author: L. Salini
 Supervisor: Prof. Riccardo Tommasini
- 2013 | “*Influenza delle masse estranee sugli impianti di terra globali*”
 Authors: M. Casalino, F. Scolamiero
 Supervisor: Prof. Riccardo Tommasini
 Co-Supervisor: Prof. Enrico Pons

PRIZES

- 2012 | Best M.Sc. Thesis
Italian Electrotechnical Committee (CEI)

PUBLICATIONS

1. S. Hosseiniimani, E. Bompard, **P. Colella**, T. Huang
Impacts of the COVID-19 pandemic on the Italian electricity demand and markets
 IEEE CSEE Journal of Power and Energy Systems, (2022)
 doi: 10.17775/CSEEJPES.2022.04550.
2. S. Hosseiniimani, E. Bompard, **P. Colella**, T. Huang
Forecasting electricity price in different time horizons: an application to the Italian electricity market
 IEEE Transactions on Industry Applications, vol. 57, no. 6, pp. 5726 – 5736, Nov - Dec. (2021)
 doi: 10.1109/TIA.2021.3114129
3. S. Hosseiniimani, E. Bompard, **P. Colella**, T. Huang
Impact of Wind and Solar Generation on the Italian Zonal Electricity Price
 Energies, vol. 14(18):5858, no. 5858, pp. 1 – 25, September. (2021)
 doi: 10.3390/en14185858
4. **P. Colella**, A. Mazza, E. Bompard, G. Chicco, A. Russo, E.M. Carlini, M. Caprabianca, F. Quaglia, L. Luzi, G. Nuzzo
Model-Based Identification of Alternative Bidding Zones: Applications of Clustering Algorithms with Topology Constraints
 Energies, vol. 14(1), no. 2763, pp. 1 – 17, May. (2021)
 doi: 10.3390/en14102763
5. D. Enescu, **P. Colella**, A. Russo, R. F. Porumb, G.C. Seritan
Concepts and Methods to Assess the Dynamic Thermal Rating of Underground Power Cables
 Energies, vol. 14(1), no. 2591, pp. 1 – 23, May. (2021)
 doi: 10.3390/en14092591
6. E. Bompard, C. Mosca, **P. Colella**, G. Antonopoulos, G. Fulli, M. Macera, M. Poncela-Blanco, S. Vitiello
The Immediate Impacts of COVID-19 on European Electricity Systems: A First Assessment and Lessons Learned
 Energies, vol. 14(1), no. 96, pp. 1 – 22, Dec. (2020)
 doi: 10.3390/en14010096
7. D. Enescu, **P. Colella**, A. Russo
Thermal assessment of power cables and impacts on cable current rating: An overview
 Energies, vol. 13, no. 20, pp. 1 – 22, Dec. (2020)
 doi: 10.3390/en13205319

8. **P. Colella**, E. Pons, C. Piran, R. Tommasini
Validation and Testing of an Analytical Formulation to Compute the Reduction Factor in MV Grids
IEEE Transactions on Industry Applications, vol. 56, no. 4, pp. 3403 – 3411, July - Aug. (2020)
doi: 10.1109/TIA.2020.2986989
9. E. Bompard, C. Mosca, **P. Colella**, Z. Yan
Impatti tecno-economici della pandemia da COVID-19 sul sistema elettrico italiano
L'Energia Elettrica, vol. 97, pp. 21 – 30, Sept. - Oct. (2020)
ISSN: 1590-7651
10. E. Pons, **P. Colella**, R. Rizzoli, R. Tommasini
Optimization of Digital Overcurrent Protection Settings in DC Urban Light Railway Systems
IEEE Transactions on Industry Applications, vol. 55, no. 4, pp. 3437 – 3444, July - Aug. (2019)
doi: 10.1109/TIA.2019.2914415
11. **P. Colella**, E. Pons, R. Tommasini, M. L. Di Silvestre, E. Riva Sanseverino, G. Zizzo
Fall of Potential Measurement of the Earth Resistance in Urban Environments: Accuracy Evaluation
IEEE Transactions on Industry Applications, vol. 55, no. 3, pp. 2337–2346, May - June 2019. (2019)
doi: 10.1109/TIA.2019.2892680
12. G. Cafaro, **P. Colella**, P. Montegiglio, E. Pons, R. Tommasini, F. Torelli, G. Valtorta
Ground Resistance of Buried Metallic Parts in Urban Areas: an Extensive Measurement Campaign
IEEE Transactions on Industry Applications, vol. 53, no. 6, pp. 5209–5216, Nov. - Dec. (2017)
doi: 10.1109/TIA.2017.2748502
13. **P. Colella**, E. Pons, R. Tommasini
A Comparative Review of the Methodologies to Identify a Global Earthing System
IEEE Transactions on Industry Applications, vol. 53, no. 4, pp. 3260–3267, July - Aug. (2017)
doi: 10.1109/TIA.2017.2680399
14. **P. Colella**, E. Pons, R. Tommasini
Dangerous touch voltages in buildings: The impact of extraneous conductive parts in risk mitigation
Electric Power Systems Research, vol. 147, no. 4, pp. 263–271, June (2017)
doi: 10.1016/j.epsr.2017.03.006
15. E. Pons, R. Tommasini, **P. Colella**
Fault Current Detection and Dangerous Voltages in DC Urban Rail Traction Systems
IEEE Transactions on Industry Applications, vol. 53, no. 4, pp. 4109–4115, July - Aug. (2017)
doi: 10.1109/TIA.2017.2692202
16. G. Cafaro, P. Montegiglio, F. Torelli, A. Barresi, **P. Colella**, A. De Simone, M.L. Di Silvestre, L. Martirano, E. Morozova, R. Napoli, G. Parise, L. Parise, E. Pons, E. Riva Sanseverino, R. Tommasini, F. Tummolillo, G. Valtorta, G. Zizzo
Influence of LV Neutral Grounding on Global Earthing Systems
IEEE Transactions on Industry Applications, vol. 53, no. 1, pp. 22–31, Jan. - Feb. (2017)
doi: 10.1109/TIA.2016.2608325

17. **P. Colella**, R. Napoli, E. Pons, R. Tommasini, A. Barresi, G. Cafaro, A. De Simone, M.L. Di Silvestre, L. Martirano, P. Montegiglio, E. Morozova, G. Parise, L. Parise, E. Riva Sanseverino, F. Torelli, F. Tummolillo, G. Valtorta, G. Zizzo
Currents Distribution During a Fault in an MV Network: Methods and Measurements
IEEE Transactions on Industry Applications, vol. 52, no. 6, pp. 4585-4593, Nov.-Dec. (2016)
doi: 10.1109/TIA.2016.2600672
18. E. Pons, **P. Colella**, R. Napoli, R. Tommasini
Impact of MV Ground Fault Current Distribution on Global Earthing Systems
IEEE Transactions on Industry Applications, vol. 51, no. 6, pp. 4961-4968, Nov. - Dec. (2015).
doi: 10.1109/TIA.2015.2417836
19. E. Pons, **P. Colella**, R. Tommasini, R. Napoli, P. Montegiglio, G. Cafaro, F. Torelli
Global Earthing System: Can Buried Metallic Structures Significantly Modify the Ground Potential Profile?
IEEE Transactions on Industry Applications, vol. 51, no. 6, pp. 5237-5246, Nov. - Dec. (2015)
doi: 10.1109/TIA.2015.2422824
20. R. Tommasini, E. Pons, F. Palamara, C. Turturici, **P. Colella**
Risk of electrocution during fire suppression activities involving photovoltaic systems
Fire Safety Journal, vol. 67, pp. 35-41, June (2014)
doi: 10.1016/j.firesaf.2014.05.008

- G. Chicco, D. Bonansinga, P. Colella
Categorisation of Low-Voltage Three-Phase Electricity Users
2022 International Conference on Smart Energy Systems and Technologies, 5–7 September 2022
doi: 10.1109/SEST53650.2022.9898442
- C. Mosca, P. Colella, E. Bompard, Yan. Z.
Techno-economic Impacts of COVID-19 Pandemic on the Italian Electricity System
2020 AEIT International Annual Conference, 22-25 September 2020
doi: 10.23919/AEIT50178.2020.9241113
- P. Colella^{*}, A. Mazza, E. Bompard, G. Chicco, A. Russo, E. M. Carlini , M. Caprabanca, F. Quaglia , L. Luzi , G. Nuzzo
Model-based Identification of Alternative Bidding Zone Configurations from Clustering Algorithms Applied on Locational Marginal Prices
55th International Universities Power Engineering Conference (UPEC), 1-4 September 2020
doi: 10.1109/UPEC49904.2020.9209798
- M. Housseni Imani, E. Bompard, P. Colella, T. Huang
Predictive methods of electricity price: An application to the Italian electricity market
Environment and Electrical Engineering (EEEIC), 2020 IEEE 20th International Conference on, 9–12 June 2020
doi: 10.1109/EEEIC/ICPSEurope49358.2020.9160561
- L. Michi, V. Ilea, M. Caprabanca, G. Nuzzo, P. Colella, A. Russo, F. Quaglia, E. Bompard, A. Griffone, C. Bovo, E. M. Carlini, L. Luzi, G. Chicco, A. Mazza
Optimal Bidding Zone Configuration: Investigation on Model-based Algorithms and their Application to the Italian Power System
2019 AEIT International Annual Conference, 18-20 September 2019
doi: 10.23919/AEIT.2019.8893369
- Y. Zhang, P. Colella, A. Mazza, E. Bompard, E. Roggero, G. Galofaro
Prediction of Power Outages in Distribution Network with Grey Theory
2019 International Conference on Smart Energy Systems and Technologies (SEST), 9-11 September 2019
doi: 10.1109/SEST.2019.8849044
- G. Chicco, P. Colella, A. Griffone, A. Russo, Y. Zhang, E. M. Carlini , M. Caprabanca, F. Quaglia , L. Luzi , G. Nuzzo
Overview of the Clustering Algorithms for the Formation of the Bidding Zones
54th International Universities Power Engineering Conference (UPEC), 3-6 September 2019
doi: 10.1109/UPEC.2019.8893526
- Y. Zhang, A. Mazza, P. Colella, E. Bompard, E. Roggero, G. Galofaro
Abnormal Electricity Consumption Detection from Incomplete Records in Power System
Innovative Smart Grid Technologies - Asia (ISGT Asia), IEEE, 21-24 May 2019
doi: 10.1109/ISGT-Asia.2019.8881182
- P. Colella, E. Pons, A. Tortora
Rail Potential Calculation: Impact of the Chosen Model on the Safety Analysis
110th AEIT International Annual Conference, 3-5 October 2019
doi: 10.23919/AEIT.2018.8577295

^{*}The underlined name indicates that Pietro Colella presented the work.

- P. Colella, E. Pons
An Analytical Procedure to Identify a Global Earthing System
Environment and Electrical Engineering (EEEIC), 2018 IEEE 18th International Conference on, 12-15 June 2018
doi: 10.1109/EEEIC.2018.8494548
- E. Pons, P. Colella
Overvoltages in DC Urban Light Railway Systems: Statistical Analysis and Possible Causes
Environment and Electrical Engineering (EEEIC), 2018 IEEE 18th International Conference on, 12-15 June 2018
doi: 10.1109/EEEIC.2018.8494548
- P. Colella
Lavoro elettrico: shock elettrico e arco elettrico. Dispositivi di protezione
Seminario “Il Rischio Elettrico nei Cantieri”, 23 March 2018
- P. Colella
Lavoro elettrico: shock elettrico e arco elettrico. Dispositivi di protezione
Restructura 30^a edizione, 18 November 2017
- A. Ciocia, V. Cocina, P. Colella, P. Di Leo, F. Spertino, R. Tommasini
Ground Currents in a Photovoltaic Power Plant: Theoretical Approach and Experimental Tests
IEEE PowerTech 2017, 18-22 June 2017
doi: 10.1109/PTC.2017.7981035
- P. Colella, E. Pons, R. Tommasini
MV Ground Fault Current Distribution: an Analytical Formulation of the Reduction Factor
Environment and Electrical Engineering (EEEIC), 2017 IEEE 17th International Conference on, 6-9 June 2017
doi: 10.1109/EEEIC.2017.7977622
- P. Colella, E. Pons, R. Tommasini, E. Riva Sanseverino, M. L. Di Silvestre, G. Zizzo
Earth Resistance Measurements in Urban Contexts: Problems and Possible Solutions
Environment and Electrical Engineering (EEEIC), 2017 IEEE 17th International Conference on, 6-9 June 2017
doi: 10.1109/EEEIC.2017.7977644
- P. Colella, E. Pons, R. Rizzoli, R. Tommasini
Distinguishing Short Circuit and Normal Operation Currents in DC Urban Light Railway Systems
Environment and Electrical Engineering (EEEIC), 2017 IEEE 17th International Conference on, 6-9 June 2017
doi: 10.1109/EEEIC.2017.7977615
- J. A. Sa'ed, M. L. Di Silvestre, E. Riva Sanseverino, G. Zizzo, P. Colella, E. Pons
On the Hazardous Situations Due to the Presence of HV/MV Substations in Urban Areas
Environment and Electrical Engineering (EEEIC), 2017 IEEE 17th International Conference on, 6-9 June 2017
doi: 10.1109/EEEIC.2017.7977507
- P. Colella, E. Pons, R. Tommasini
The Identification of Global Earthing Systems: a Review and Comparison of Methodologies
Environment and Electrical Engineering (EEEIC), 2016 IEEE 16th International Conference on, 7-10 June 2016
doi: 10.1109/EEEIC.2016.7555837

- G. Cafaro, P. Colella, P. Montegiglio, E. Pons, R. Tommasini, F. Torelli, G. Valtorta
Global Earthing Systems: Characterization of Buried Metallic Parts
Environment and Electrical Engineering (EEEIC), 2016 IEEE 16th International Conference on, 7-10 June 2016
doi: 10.1109/EEEIC.2016.7555723
- V. Cocina, P. Colella, E. Pons, F. Palamara, R. Tommasini
Indirect Contacts Protection for Multi-Frequency Currents Ground Faults
Environment and Electrical Engineering (EEEIC), 2016 IEEE 16th International Conference on, 7-10 June 2016
doi: 10.1109/EEEIC.2016.7555701
- E. Pons, R. Tommasini, P. Colella
Electrical Safety of DC Urban Rail Traction Systems
Environment and Electrical Engineering (EEEIC), 2016 IEEE 16th International Conference on, 7-10 June 2016
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