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## Education

- 2006 - 2009** **Ph.D. in Electric Engineering**, COPPE - Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
- 2003 - 2005** **M.Sc. in Electric Engineering**, UFJF - Federal University of Juiz de Fora, Juiz de Fora, Brazil.
- 1997 - 2003** **Graduation in Electric Engineering**, UFJF - Federal University of Juiz de Fora, Juiz de Fora, Brazil.

## Doctorate Thesis

**Title** Reconfiguration and Optimal Capacitor Allocation in Distribution Systems

## Professional Experience

- 2010 - present** **Full Professor**, Federal University of Juiz de Fora, Juiz de Fora, Brazil.  
Working with teaching, supervision of PhD, MSc and undergraduate students.
- 2010- 2010** **Full Professor**, Federal University of São João del-Rei, São João del-Rei, Brazil.  
Working with teaching, supervision of undergraduate students.
- 2015- present** **Volunteer**, Institute of Electrical and Electronics Engineers, Inc. - IEEE. Minas Gerais Section.  
Chair of the Affinity Group IEEE Young Professionals (YP) (2015-2017); Advisor of the PES (Power and Energy Society) Chapter of the Student Branch (2017-2018); Treasurer (2018-2019); Vice-Chair (2020-2021); Advisor of the IAS (Industry Applications Society) Chapter of the Student Branch (2020-present); Chair (2022-2023); Representative of the Student Activities Committee (SAC)(2024-present).
- 2024** **Researcher**, INESC TEC Porto.  
Researcher of INESC TEC Porto from June/2024 to July/2024 by the INESC TEC International Visiting Researcher Programme - 2023 Edition.

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## CIÊNCIA ID

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## Citations

**Web of Science:** 709 (H-index = 13)

**Scopus:** 1073 (H-index = 17)

**Scielo:** 10 (H-index = 2)

**Google Scholar:** 1741 (H-index = 21)

## Research Projects

2021 - 2021

Optimal control system of microgrid with energy storage for smartgrid - Phase 2 (Coordinator)

2018 - 2020

Study of methodologies for the connection of offshore wind plants of large and small size – energy and electric aspects (Member)

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## Publications

### Journal Publications

1. BOTELHO, Daniel F.; Arêdes, Camile; **Oliveira, Leonardo W.**. Green hydrogen production from hydro spilled energy in Brazilian hydropower plants. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY. v.68, p.575 - 585, 2024.
2. DE BARROS, THIAGO RIBEIRO; ARCHETTI, JOÃO ANTÔNIO GUEDES; MATTOS, MARINA; **de Oliveira, Leonardo Willer**; Oliveira, Janaína G.. Optimization algorithm associated with local and coordinated controls of distributed energy resources to meet technical and economic criteria. ELECTRIC POWER SYSTEMS RESEARCH. v.226, p.109880, 2024.
3. MIRANDA, Felipe L.; **Oliveira, Leonardo W.**; OLIVEIRA, EDIMAR J.; NEPOMUCENO, ERIVELTON; DIAS, BRUNO H.. Transmission expansion planning based on Pareto dominance considering load variation and wind power. Electrical Engineering. v.1, p.1, 2024.
4. ALMEIDA, THALES SCHUABB; BRAGA, LUCAS EDUARDO SILVA; **OLIVEIRA, LEONARDO WILLER**; OLIVEIRA, EDIMAR JOSE; SOUZA, JULIO CESAR STACCHINI. A Hybrid Meta-Heuristic Approach for Optimal Meter Allocation in Electric Power Distribution Systems. LEARNING AND NONLINEAR MODELS. v.21, p.36 - 46, 2023.
5. SILVA, WALQUIRIA N.; BANDÓRIA, LUÍS H.T.; DIAS, BRUNO H.; DE ALMEIDA, MADSON C.; **de Oliveira, Leonardo W.**. Generating realistic load profiles in smart grids: An approach based on nonlinear independent component estimation (NICE) and convolutional layers. APPLIED ENERGY. v.351, p.121902, 2023.
6. MIRANDA, Felipe L.; **Oliveira, Leonardo W.**; OLIVEIRA, EDIMAR J.; NEPOMUCENO, ERIVELTON G.; DIAS, BRUNO H.. Multi-objective transmission expansion planning based on Pareto dominance and neural networks. ELECTRIC POWER SYSTEMS RESEARCH. v.214, p.108864, 2023.
7. HENRIQUE, LETÍCIA F.; SILVA, WALQUIRIA N.; SILVA, CAIO C.A.; DIAS, BRUNO H.; **Oliveira, Leonardo W.**; ALMEIDA, MADSON C. DE. Optimal siting and sizing of distributed energy resources in a Smart Campus. ELECTRIC POWER SYSTEMS RESEARCH. v.217, p.109095, 2023.
8. DE OLIVEIRA, RICARDO; **de Oliveira, Leonardo Willer**; DE OLIVEIRA, EDIMAR JOSÉ. Optimization Approach for Planning Soft Open Points in a MV-Distribution System to Maximize the Hosting Capacity. Energies. v.16, p.1035, 2023.
9. ARCHETTI, JOÃO ANTÔNIO GUEDES; SILVA, DALMO C.; DE MEDEIROS, LÚCIO; SALAMANCA, HENRY L.L.; FUCHS, LEONARDO; **de Oliveira, Leonardo Willer**; Oliveira, Janaína G.. Real time validation of a control system for microgrids with distributed generation and storage resources. ELECTRIC POWER SYSTEMS RESEARCH. v.223, p.109683, 2023.
10. KITAMURA, DANIEL; **WILLER, LEONARDO**; DIAS, BRUNO; SOARES, TIAGO. Risk-Averse Stochastic Programming for Planning Hybrid Electrical Energy Systems: A Brazilian Case. Energies. v.16, p.1463, 2023.
11. DE OLIVEIRA, EDIMAR JOSÉ; DE PAULA, ARTHUR NEVES; **de Oliveira, Leonardo Willer**; HONÓRIO, LEONARDO DE MELLO. Block-Based Multicut Benders Decomposition Algorithm for Transmission and Energy Storage Co-Planning. International Transactions on Electrical Energy Systems. v.2022, p.1 - 12, 2022.
12. GUEDES, WANESSA; DEOTTI, LUCAS; DIAS, BRUNO; SOARES, TIAGO; **de Oliveira, Leonardo**

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**Willer.** Community Energy Markets with Battery Energy Storage Systems: A General Modeling with Applications. *Energies*. v.15, p.7714, 2022.

13. DE OLIVEIRA, EDIMAR JOSÉ; NEPOMUCENO, LUCAS SANTIAGO; DA SILVA, GABRIEL SCHREIDER; DA COSTA, MONIQUE RIBEIRO; DE PAULA, ARTHUR NEVES; **de Oliveira, Leonardo Willer.** Congestion management based on linear programming with strict constraints. *Electrical Engineering*. v.1, p.1 - 11, 2022.

14. OLIVEIRA, CARLOS; BOTELHO, Daniel F.; SOARES, TIAGO; FARIA, ANTÓNIO S.; DIAS, BRUNO H.; MATOS, MANUEL A.; **de Oliveira, Leonardo W.** Consumer-centric electricity markets: A comprehensive review on user preferences and key performance indicators. *ELECTRIC POWER SYSTEMS RESEARCH*. v.210, p.108088, 2022.

15. ARCHETTI, João A. G.; **de Oliveira, Leonardo W.**; DE OLIVEIRA, JANAÍNA G.. Hardware-in-the-Loop Volt-Watt and Volt-VAr Control for Distribution Systems with High Penetration of Renewables. *JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS*. v.1, p.1 - 12, 2022.

16. BOTELHO, D.F.; **DE OLIVEIRA, L.W.**; DIAS, B.H.; SOARES, T.A.; MORAES, C.A.. Integrated prosumers-DSO approach applied in peer-to-peer energy and reserve tradings considering network constraints. *APPLIED ENERGY*. v.317, p.119125, 2022.

17. BOTELHO, D.F.; **DE OLIVEIRA, L.W.**; DIAS, B.H.; SOARES, T.A.; MORAES, C.A.. Prosumer integration into the Brazilian energy sector: An overview of innovative business models and regulatory challenges. *ENERGY POLICY*. v.161, p.112735, 2022.

18. DUQUE, Felipe G.; **de Oliveira, Leonardo W.**; DE OLIVEIRA, EDIMAR J.; DE SOUZA, JULIO C.S.. A cost-benefit multiobjective approach for placement of meters in electrical distribution systems. *ELECTRIC POWER SYSTEMS RESEARCH*. v.191, p.106897, 2021.

19. MORAES, CAMILE A.; **de Oliveira, Leonardo W.**; DE OLIVEIRA, EDIMAR J.; BOTELHO, Daniel F.; DE PAULA, ARTHUR NEVES; PINTO, MILENA F.. A probabilistic approach to assess the impact of wind power generation in transmission network expansion planning. *ELECTRICAL ENGINEERING*. v.n/a, p.1, 2021.

20. OLIVEIRA, EZEQUIEL DA S.; SILVA JUNIOR, IVO C.; **de Oliveira, Leonardo W.**; DE MENDONÇA, ISABELA M.; VILAÇA, PHILLIPE; SARAIVA, João T.. A two-stage constructive heuristic algorithm to handle integer investment variables in transmission network expansion planning. *ELECTRIC POWER SYSTEMS RESEARCH*. v.192, p.106905, 2021.

21. BOTELHO, D.F.; DIAS, B.H.; **DE OLIVEIRA, L.W.**; SOARES, T.A.; REZENDE, I.; SOUSA, T.. Innovative business models as drivers for prosumers integration - Enablers and barriers. *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. v.144, p.111057, 2021.

22. DA SILVA, GABRIEL S.; DE OLIVEIRA, EDIMAR J.; **de Oliveira, Leonardo W.**; DE PAULA, ARTHUR N.; Ferreira, Jhonatan S.; HONÓRIO, LEONARDO M.. Load frequency control and tie-line damping via virtual synchronous generator. *INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS*. v.132, p.107108, 2021.

23. **de Oliveira, Leonardo Willer**; DE OLIVEIRA, JANAÍNA GONÇALVES; DIAS, Bruno Henriques; DE SENA, CÉLIA SIMÕES ARREGUY; DOS SANTOS, ANDRÉ LOPES MARINHO. Optimal Allocation of Battery in Electrical Distribution Systems with Distributed Resources. *JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS*. v.32, p.1289 - 1304, 2021.

24. Ferreira, Jhonatan S.; OLIVEIRA, EDIMAR J.; PAULA, Arthur N.; **Oliveira, Leonardo W.**; PASSOS

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FILHO, JOAO ALBERTO. Optimal power flow with security operation region. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS. v.124, p.106272, 2021.

25. KITAMURA, D. T.; ROCHA, K. P.; **OLIVEIRA, L. W.**; OLIVEIRA, J. G.; DIAS, B. H.; SOARES, T. A.. Optimization approach for planning hybrid electrical energy system: a Brazilian case. ELECTRICAL ENGINEERING. v.n/a, p.1, 2021.

26. PAULA, ARTHUR NEVES; OLIVEIRA, EDIMAR JOSÉ; HONÓRIO, LEONARDO DE MELLO; **OLIVEIRA, LEONARDO WILLER**; MORAES, CAMILE ARÊDES. <scp>m-ISODATA</scp> : Unsupervised clustering algorithm to capture representative scenarios in power systems. International Transactions on Electrical Energy Systems. v.31, p.e13005, 2021.

27. MIRANDA, Felipe L.; **Oliveira, Leonardo W.**; DIAS, Bruno Henriques; Resende, Leônidas C.; Nepomuceno, E. G.; OLIVEIRA, EDIMAR J.. Composite Power System Reliability Evaluation Considering Stochastic Parameters Uncertainties. IEEE Latin America Transactions. v.18, p.2003 - 2010, 2020.

28. SETA, FELIPE DA S.; **de Oliveira, Leonardo W.**; DE OLIVEIRA, EDIMAR J.. Distribution System Planning with Representation of Uncertainties Based on Interval Analysis. JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS. v.31, p.494 - 510, 2020.

29. TRENTINI, Caroline; DE OLIVEIRA GUEDES, WANESSA; **de Oliveira, Leonardo Willer**; DIAS, Bruno Henriques; FERREIRA, VITOR HUGO. Maintenance Planning of Electric Distribution Systems-A Review. JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS. v.32, p.186 - 202, 2020.

30. VASCONCELOS, LEANDRO ALMEIDA; PASSOS FILHO, JOÃO ALBERTO; **de Oliveira, Leonardo Willer**. Optimal offshore wind farms connection considering the wind capacity maximisation - a Benders decomposition approach. IET Renewable Power Generation. v.14, p.1772 - 1781, 2020.

31. OLIVEIRA, A. R.; OLIVEIRA, E. J.; GARCIA, P. A. N.; **OLIVEIRA, L. W.**; OLIVEIRA, J. G.. Real-Time Simulators Applied to Brazilian Power Systems: A Review. JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS. v.31, p.1037 - 1050, 2020.

32. MAYRINK, SERGIO; Oliveira, Janaina G.; DIAS, BRUNO H.; **Oliveira, Leonardo W.**; OCHOA, JUAN S.; ROSSETI, GUSTAVO S.. Regenerative Braking for Energy Recovering in Diesel-Electric Freight Trains: A Technical and Economic Evaluation. Energies. v.13, p.963, 2020.

33. DE PAULA, A. N.; DE OLIVEIRA, E. J.; **OLIVEIRA, L. W.**; Moraes, C. A.. Reliability-constrained dynamic transmission expansion planning considering wind power generation. ELECTRICAL ENGINEERING. v.102, p.2583 - 2593, 2020.

34. DE PAULA, ARTHUR N.; DE OLIVEIRA, EDIMAR J.; **de Oliveira, Leonardo W.**; HONÓRIO, LEONARDO M.. Robust Static Transmission Expansion Planning Considering Contingency and Wind Power Generation. JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS. v.31, p.461 - 470, 2020.

35. DA SILVA SETA, FELIPE; **OLIVEIRA, LEONARDO**; OLIVEIRA, EDIMAR. Comprehensive Approach for Distribution System Planning with Uncertainties. IET Generation Transmission & Distribution. v.13, p.5467 - 5477, 2019.

36. BITENCOURT, LEONARDO DE A.; Borba, Bruno S. M. C.; DIAS, BRUNO H.; MACIEL, Renan S.; Dias, Daniel H. N.; **Oliveira, Leonardo W.**. Electric Vehicles Charging Optimization to Improve the Insertion Considering the Brazilian Regulatory Framework. Energy Storage. v.1, p.e76, 2019.

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37. VILAÇA GOMES, PHILLIPE; SARAIVA, João T.; CARVALHO, LEONEL; DIAS, BRUNO; **Oliveira, Leonardo W.**. Impact of decision-making models in Transmission Expansion Planning considering large shares of renewable energy sources. *ELECTRIC POWER SYSTEMS RESEARCH*. v.174, p.105852, 2019.
38. VASCONCELOS, Leandro A.; PASSOS FILHO, JOÃO A.; **de Oliveira, Leonardo W.**; AVILA, Othon F.. Optimal Connection of Offshore Wind Farm with Maximization of Wind Capacity to Power Systems considering Losses and Security Constraints. *JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING*. v.2019, p.1 - 14, 2019.
39. ARÊDES MORAES, CAMILE; DE OLIVEIRA, EDIMAR JOSÉ; FIORESI BOTELHO, DANIEL; **WILLER DE OLIVEIRA, LEONARDO**; FARIA PINTO, MILENA. Wind Generation Impact in Transmission Expansion Planning. *JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS*. v.31, p.247 - 256, 2019.
40. OLIVEIRA, EDIMAR J.; Arêdes, Camile; **Oliveira, Leonardo W.**; HONÓRIO, LEONARDO M.; POUBEL, RAPHAEL P. B.. Efficient hybrid algorithm for transmission expansion planning. *ELECTRICAL ENGINEERING*. v.100, p.2765 - 2777, 2018.
41. SOARES, Guilherme M.; ALMEIDA, PEDRO S.; **de Oliveira, Leonardo W.**; ALONSO, J. MARCOS; BRAGA, Henrique A. C.. Optimized Design of a Wide-Bandwidth Controller for Low-Frequency Ripple Compensation in Off-line LED Drivers. *IEEE Journal of Emerging and Selected Topics in Power Electronics*. v.6, p.1166 - 1178, 2018.
42. **Oliveira, Leonardo W.**; OLIVEIRA, ANGELO R.; GOMES, FLAVIO V.; DIAS, BRUNO H.; SILVA JUNIOR, Ivo Chaves da. APLICAÇÃO DE ALGORITMOS GENÉTICOS PARA O PLANEJAMENTO DE GERAÇÃO DISTRIBUÍDA EM SISTEMAS DE DISTRIBUIÇÃO. *LINKSCIENCEPLACE*. v.3, p.79 - 97, 2017.
43. FERREIRA, Ewerton L.; **de Oliveira, Leonardo W.**. Distribution Systems Reconfiguration for Voltage Stability Maximization by using Artificial Immune Systems. *INTERNATIONAL JOURNAL OF SWARM INTELLIGENCE RESEARCH (PRINT)*. v.8, p.1 - 16, 2017.
44. **WILLER OLIVEIRA, LEONARDO**; CRISTINA JOSE MARIA, THAISY. Planning of Renewable Generation in Distribution Systems Considering Daily Operating Periods. *IEEE Latin America Transactions*. v.15, p.901 - 907, 2017.
45. **Oliveira, Leonardo W.**; OLIVEIRA, ANGELO R.; SILVA JUNIOR, Ivo Chaves da; GOMES, FLÁVIO V.; OLIVEIRA, E. J.. RESTABELECIMENTO DE SISTEMAS DE DISTRIBUIÇÃO DE ENERGIA ATRAVÉS DA TÉCNICA ENXAME DE PARTÍCULAS. *LINKSCIENCEPLACE*. v.3, p.98 - 113, 2017.
46. DUQUE, Felipe G.; **de Oliveira, Leonardo W.**; DE OLIVEIRA, EDIMAR J.; AUGUSTO, ANDRÉ A.. State estimator for electrical distribution systems based on an optimization model. *ELECTRIC POWER SYSTEMS RESEARCH*. v.152, p.122 - 129, 2017.
47. POUBEL, R.P.B.; DE OLIVEIRA, E.J.; MANSO, L.A.F.; HONÓRIO, L.M.; **OLIVEIRA, L.W.**. Tree searching heuristic algorithm for multi-stage transmission planning considering security constraints via genetic algorithm. *Electric Power Systems Research (Print)*. v.142, p.290 - 297, 2017.
48. DUQUE, Felipe G.; **de Oliveira, Leonardo W.**; DE OLIVEIRA, EDIMAR J.. An Approach for Optimal Allocation of Fixed and Switched Capacitor Banks in Distribution Systems Based on the Monkey Search Optimization Method. *JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS*. v.27, p.212 - 227, 2016.
49. Loureiro, Pedro C.; VARIZ, ABÍLIO M.; **de Oliveira, Leonardo W.**; OLIVEIRA, ANGELO R.; Pereira, José L. R.. ANN-Based SVC Tuning for Voltage and Harmonics Control in Microgrids. *JOURNAL OF CONTROL,*

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AUTOMATION AND ELECTRICAL SYSTEMS. v.28, p.114 - 122, 2016.

50. ROCHA OLIVEIRA, ANGELO; AUGUSTO NEPOMUCENO GARCIA, PAULO; **WILLER OLIVEIRA, LEONARDO**; JOSE OLIVEIRA, EDIMAR; ANTONIO SILVA, HELIO. Fault Classification in Distribution Systems Based on Fault Current Angles. Revista IEEE América Latina. v.14, p.199 - 205, 2016.

51. **Oliveira, Leonardo W.**; SETA, Felipe S.; OLIVEIRA, EDIMAR J.. Optimal reconfiguration of distribution systems with representation of uncertainties through interval analysis. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS. v.83, p.382 - 391, 2016.

52. POUBEL, RAPHAEL PAULO BRAGA; DE OLIVEIRA, EDIMAR JOSÉ; DE MELLO HONÓRIO, LEONARDO; **de Oliveira, Leonardo Willer**; DA SILVA JUNIOR, IVO CHAVES. A Coupled Model to Multistage Transmission Expansion Planning. JOURNAL OF CONTROL, AUTOMATION AND ELECTRICAL SYSTEMS. v.26, p.272 - 282, 2015.

53. DUQUE, Felipe G.; **de Oliveira, Leonardo W.**; DE OLIVEIRA, EDIMAR J.; MARCATO, ANDRÉ L.M.; SILVA, IVO C.. Allocation of capacitor banks in distribution systems through a modified monkey search optimization technique. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS. v.73, p.420 - 432, 2015.

54. OLIVEIRA, EDIMAR J.; **Oliveira, Leonardo W.**; PEREIRA, J.L.R.; HONÓRIO, LEONARDO M.; SILVA, IVO C.; MARCATO, A.L.M.. An optimal power flow based on safety barrier interior point method. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS. v.64, p.977 - 985, 2015.

55. OLIVEIRA, EDIMAR J.; HONÓRIO, LEONARDO M.; ANZAI, Alexandre H.; **Oliveira, Leonardo W.**; COSTA, EXUPERRY B.. Optimal transient droop compensator and PID tuning for load frequency control in hydro power systems. International Journal of Electrical Power & Energy Systems. v.68, p.345 - 355, 2015.

56. **de Oliveira, Leonardo W.**; DE OLIVEIRA, EDIMAR J.; GOMES, FLÁVIO V.; SILVA, IVO C.; MARCATO, ANDRÉ L.M.; RESENDE, PAULO V.C.. Artificial Immune Systems applied to the reconfiguration of electrical power distribution networks for energy loss minimization. International Journal of Electrical Power & Energy Systems. v.56, p.64 - 74, 2014.

57. DE OLIVEIRA, EDIMAR JOSÉ; ROSSETI, GUSTAVO JOSÉ; **de Oliveira, Leonardo Willer**; GOMES, FLÁVIO VANDERSON; PERES, WESLEY. New algorithm for reconfiguration and operating procedures in electric distribution systems. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS. v.57, p.129 - 134, 2014.

58. VIANA, EDUARDO MARTINS; DE OLIVEIRA, EDIMAR JOSÉ; MARTINS, Nelson; PEREIRA, JOSÉ LUIZ R.; **de Oliveira, Leonardo Willer**. An Optimal Power Flow Function to Aid Restoration Studies of Long Transmission Segments. IEEE TRANSACTIONS ON POWER SYSTEMS. v.28, p.121 - 129, 2013.

59. ROSSETI, GUSTAVO J.S.; DE OLIVEIRA, EDIMAR J.; **de Oliveira, Leonardo W.**; SILVA, IVO C.; PERES, WESLEY. Optimal allocation of distributed generation with reconfiguration in electric distribution systems. Electric Power Systems Research (Print). v.103, p.178 - 183, 2013.

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61. **de Oliveira, Leonardo W.**; CARNEIRO, SANDOVAL; DE OLIVEIRA, EDIMAR J.; PEREIRA, J.L.R.; SILVA, IVO C.; Costa, Jeferson S.. Optimal reconfiguration and capacitor allocation in radial distribution

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systems for energy losses minimization. International Journal of Electrical Power & Energy Systems. v.32, p.840 - 848, 2010.

62. **Oliveira, Edimar J. de**; ROCHA, Rafael Santos; Silva Jr, Ivo Chaves da; Marcato, André Luis Marques; Oliveira, Leonardo Willer de; Pereira, José L. R.. Influência da variação da produtividade das usinas hidroelétricas no ciclo da energia firme. Controle & Automação (Impresso). v.20, p.247 - 255, 2009.

63. **Oliveira, Leonardo W.**; C. Junior, Sandoval; Costa, Jeferson S.; OLIVEIRA, EDIMAR J. DE; Pereira, José L. R.; S. Junior, Ivo C.. Reconfiguração ótima de sistemas de distribuição para minimização de perdas de energia. CONTROLE & AUTOMAÇÃO (IMPRESSO). v.20, p.233 - 246, 2009.

64. **Oliveira, Edimar J. de**; Fontoura, Rafael M.; MARTINS, Nelson; Oliveira, Leonardo Willer de; Pereira, José L. R.. Inclusão de restrições dinâmicas no problema de planejamento de potência reativa. Controle & Automação (Impresso). v.19, p.53 - 62, 2008.

### Book Chapters

1. Moraes, C. A.; DE OLIVEIRA, E. J.; Khosravy, M.; **OLIVEIRA, L. W.**; Honório, L. M.; Pinto, M. F.. A Hybrid Bat-Inspired Algorithm for Power Transmission Expansion Planning on a Practical Brazilian Network In: Springer Tracts in Nature-Inspired Computing, ed.1. : Springer Singapore, 2020, p. 71 - 95.

2. Duque, F. G.; **de Oliveira, L. W.**; DE OLIVEIRA, E. J.; DIAS, B. H.; Moraes, C. A.. Modified Monkey Search Technique Applied for Planning of Electrical Energy Distribution Systems In: Springer Tracts in Nature-Inspired Computing, ed.1. : Springer Singapore, 2020, v.1, p. 240 - 265.

3. Souza, Marina B. A.; DE OLIVEIRA, EDIMAR JOSÉ; **de Oliveira, Leonardo Willer**; Moreira, Antonio Paulo G. M.. Collision Avoidance for Multi-robot Systems with Coincident Paths Based on Fictitious Collision Points Using Nonlinear Formulation In: Advances in Intelligent Systems and Computing, ed.1. : Springer International Publishing, 2018, p. 60 - 71.

4. Ferreira, Saulo C. de A.; Carvalho, Jerson dos S.; de Oliveira, Leonardo W.; Araújo, Taís L. O.; DE OLIVEIRA, EDIMAR J.; Souza, Marina B. A.. Application of Robust Optimization Technique to the Energy Planning Problem In: Lecture Notes in Computer Science, ed.1. Cham: Springer International Publishing, 2017, v.10423, p. 241 - 252.

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