

Adaptive chaotic class topper optimization to solve Non-convex CHPED problems in power systems

Gupta, Pradeep Kumar; Tuttlberg, Kaur; Kilter, Jako 2024 IEEE PES Innovative Smart Grid Technologies - Asia (ISGT Asia) 2024 / 6 p. <https://doi.org/10.1109/ISGTAsia61245.2024.10876314>

An adaptive class topper optimization for scheduling thermal generation with cubic fuel cost function

Gupta, Pradeep Kumar; Gupta, Anju Kumari; Tuttlberg, Kaur; Kilter, Jako 2025 15th International Conference on Power, Energy, and Electrical Engineering (CPEEE) 2025 / p. 195-199 <https://doi.org/10.1109/CPEEE64598.2025.10987339>

Ameliorated quantum class topper optimization to solve economic load dispatch problems

Gupta, Pradeep Kumar; Kumari Gupta, Anju; Tuttlberg, Kaur; Kilter, Jako 2024 3rd International Conference on Energy Transition in the Mediterranean Area (SyNERGY MED) 2024 / 5 p <https://doi.org/10.1109/SyNERGYMED62435.2024.10799422>

Analysing the influence of temperature and pressure on corona loss of 330kV overhead transmission line

Gupta, Pradeep Kumar 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 79-80 : ill https://www.ester.ee/record=b5570906*est

Assessment of corona loss performance on aging transmission lines using PMU measurements

Gupta, Pradeep Kumar; Tuttlberg, Kaur; Kilter, Jako Energy reports 2023 / p. 215-219 <https://doi.org/10.1016/j.egy.2023.09.160>
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Class topper optimization approach to solve non-convex combined heat and power economic dispatch problems in power systems

Gupta, Pradeep Kumar; Tuttlberg, Kaur; Kilter, Jako 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 179-184 <https://doi.org/10.1109/PECon62060.2024.10827527>

Comparative power quality analysis of right and left shunt UPQC topologies

Kumar, Pradeep; Gupta, Pradeep Kumar Proceedings of the International Conference on Systems, Control and Automation (ICSCA 2023) 2025 / p. 607-624 https://doi.org/10.1007/978-981-97-7384-8_52

Forecasting Corona Losses on High Voltage Transmission Lines Using Machine Learning

Gupta, Pradeep Kumar; Tuttlberg, Kaur; Kilter, Jako IEEE transactions on power delivery 2025 / p. 2696-2705 <https://doi.org/10.1109/TPWRD.2025.3593923>

Influence of weather parameters on the corona losses of 330kV Estonia overhead transmission line

Gupta, Pradeep Kumar 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 93-94 : ill https://www.ester.ee/record=b5504019*est

Quantification of corona discharge intensity applied to sphere-plane configurations

Gupta, Pradeep Kumar; Ruiz, Jordi-Roger Riba; Tuttlberg, Kaur; Kilter, Jako IEEE Transactions on Dielectrics and Electrical Insulation 2025 <https://doi.org/10.1109/TDEI.2025.3562196>

Sensitivity analysis of corona discharges measuring instruments using different electrodes and high voltage supplies

Gupta, Pradeep Kumar; Riba Ruiz, Jordi-Roger; Casals-Torrens, Pau; Talens i Garvin, Jordi; Tuttlberg, Kaur; Kilter, Jako IEEE Sensors Letters 2024 / art. 6015704 <https://doi.org/10.1109/LSSENS.2024.3504551>

Weather dependency of corona losses on 330 kV overhead transmission lines

Gupta, Pradeep Kumar; Tuttlberg, Kaur; Kilter, Jako International journal of electrical power & energy systems 2024 / art. 109537 <https://doi.org/10.1016/j.ijepes.2023.109537> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The weather impact on corona losses of 330 kV aging transmission lines

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