List of Publications

Journals

- Abhishek Kumar, Bablesh Kumar Jha, Rakesh Kumar Misra, and Devender Singh. "A New Current Injection Based Power flow Formulation." Electric Power Components and Systems, Accepted for Publication. (ISSN: 1532-5016) (SCI Expanded, IF-1.06)
- Abhishek Kumar, Bablesh Kumar Jha, Dharmendra Kumar Dheer, Rakesh Kumar Misra, and Devender Singh. "A Nested-Iterative Newton-Raphson based Power Flow Formulation for Droop-based Islanded Microgrids." Electric Power Systems Research. (ISSN: 0378-7796) (SCI Expanded, IF-3.022)
- Abhishek Kumar, Bablesh Kumar Jha, Rakesh Kumar Misra, and Devender Singh. "Novel Current Injection based Newton-Raphson Power flow algorithm for droop-based Islanded Microgrids." IET Generation, Transmission, & Distribution. (ISSN:1350-2360) (SCI, IF-3.229)
- Abhishek Kumar, Rakesh Kumar Misra, Devender Singh, Sujeet Mishra, and Swagatam Das. "The Spherical Search Algorithm for Bound-constrained Global Optimization Problems." Applied Soft Computing. (ISSN: 1568-4946) (SCI Expanded, IF-4.873).
- Abhishek Kumar, Bablesh Kumar Jha, Dharmendra Kumar Dheer, Rakesh Kumar Misra, and Devender Singh. "A Nested Backward/Forward Sweep Algorithm for Power Flow Analysis of Droop Regulated Islanded Microgrids." IET Generation, Transmission, & Distribution, 13.14(2019). (ISSN:1350-2360) (SCI, IF-3.229)

- 6. Abhishek Kumar, Guohua Wo, Mostafa Ali, Rammohan Mallipeddi, Ponnuthurai Suganthan and Swagatam Das. "A Test-suite of Non-Convex Constrained OptimizationProblems from the Real-World and Some Baseline Results."

 Swarm and Evolutionary Computation. (ISSN: 2210-6502),(SCI Expanded, IF:6.330).
- 7. Bablesh Kumar Jha, Abhishek Kumar, Dharmendra Kumar Dheer, Devender Singh andRakesh Kumar Misra. "A modied current injection load flow method under differentload model of EV for distribution system." International Transactions on ElectricalEnergy Systems, accepted for publication. (ISSN:2050-7038), (SCI Expanded, IF: 1.314).
- Bablesh Kumar Jha, Abhishek Kumar, Devender Singh, and Rakesh Kumar Misra. "Coordinated effect of PHEVs with DGs on distribution network." International Transactions on Electrical Energy Systems: 2019; 29:e2800. (ISSN:2050-7038) (SCI Expanded, IF-1.314).
- 9. Tarun Maini, Abhishek Kumar, Rakesh Kumar Misra, and Devender Singh. "Intelligent Fuzzy Rough Set Based Feature Selection using Swarm algorithms with improved initialization." Journal of Intelligent and Fuzzy Systems (JIFS), Accepted for publication (in April 2019), in press. (ISSN: 1875-8967) (SCI Expanded, IF-1.637).
- 10. Bablesh Kumar Jha, Amit Singh, Abhishek Kumar, Dharmendra Kumar Dheer, Devender Singh and Rakesh Kumar Misra. "Day ahead scheduling of PHEVs and D-BESSs inpresence of DGs in distribution system." IET Electrical Systems in Transportation. (ISSN:2042-9738),(ESCI).
- 11. Tarun Maini, Rakesh Kumar Misra, Devender Singh, and Abhishek Kumar. "Rough Set Based Feature Selection Using Swarm Algorithms with Improved Initialization." Journal of Computational and Theoretical Nanoscience 15, no. 6-7 (2018): 2350-2354. (ISSN 1546-1963) (Scopus indexed)
- 12. Sujeet Mishra, Abhishek Kumar, Rakesh Kumar Misra, and Devender Singh. "Feeder Phase Balancing using Single Phase Distributed Generations Considering Voltage Dependency of Loads." Journal of Advanced Research in Dynamical and Control Systems. (ISSN: 1943-023X) (Scopus indexed)

Book Chapters

- Sujeet Mishra, Abhishek Kumar, Devender Singh, and Rakesh Kumar Misra.
 "Butterfly Optimizer for Placement and Sizing of Distributed Generation for Feeder Phase Balancing." In Computational Intelligence: Theories, Applications and Future Directions-Volume II, pp. 519-530. Advances in Intelligent Systems and Computing, vol 799. Springer, Singapore, 2019. (ISSN:978-981-13-1135-2) (SCOPUS indexed)
- 2. Abhishek Kumar, Tarun Maini, Rakesh Kumar Misra, and Devender Singh. "Butterfly Constrained Optimizer for Constrained Optimization Problems." In Computational Intelligence: Theories, Applications and Future Directions-Volume II, pp. 477-486. Advances in Intelligent Systems and Computing, vol 799. Springer, Singapore, 2019. (ISSN:978-981-13-1135-2) (SCOPUS indexed)
- 3. Tarun Maini, Abhishek Kumar, Rakesh Kumar Misra, and Devender Singh. "Fuzzy Rough Set-Based Feature Selection with Improved Seed Population in PSO and IDS." In Computational Intelligence: Theories, Applications and Future Directions-Volume II, pp. 137-149. Advances in Intelligent Systems and Computing, vol 799. Springer, Singapore, 2019. (ISSN:978-981-13-1135-2) (SCOPUS indexed)

International Conferences

- 1. Abhishek Kumar, Rakesh Kumar Misra, Devender Singh and Swagatam Das. "Testing A Multi-Operator based Differential Evolution Algorithm on the 100-Digit Challenge for Single Objective Numerical Optimization." 2019 IEEE Congress on Evolutionary Computation (CEC). IEEE, 2019, (Fifth Rank out of 26 in competition of IEEE CEC-2019).
- Abhishek Kumar, Rakesh Kumar Misra, and Devender Singh. "Improving the local search capability of effective butterfly optimizer using covariance matrix adapted retreat phase." In 2017 IEEE Congress on Evolutionary Computation (CEC), pp. 1835-1842. IEEE, 2017. (Winner of competition of IEEE CEC-2017)

- 3. Tarun Maini, Abhishek Kumar, Rakesh Kumar Misra, and Devender Singh. "Rough set based feature selection using swarm intelligence with distributed sampled initialization." In 2017 6th International Conference on Computer Applications In Electrical Engineering-Recent Advances (CERA), pp. 92-97. IEEE, 2017.
- 4. Tarun Maini, Abhishek Kumar, Rakesh Kumar Misra and Devender Singh, "Feature selection with intelligent dynamic swarm and fuzzy rough set," 2017 International Conference on Computing, Communication and Automation (ICCCA), Greater Noida, 2017, pp. 384-388.
- 5. Abhishek Kumar, Rakesh Kumar Misra, and Devender Singh. "Butterfly Optimizer." In 2015 IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions (WCI), pp. 1-6. IEEE, 2015.