List of Publications

Journals:

1) **Partha P. Biswas**, P. N. Suganthan, and Gehan AJ Amaratunga. "Optimal power flow solutions incorporating stochastic wind and solar power." *Energy Conversion and Management* 148 (2017): 1194-1207.

2) **Partha P. Biswas**, P. N. Suganthan, R. Mallipeddi, and Gehan AJ Amaratunga. "Optimal power flow solutions using differential evolution algorithm integrated with effective constraint handling techniques." *Engineering Applications of Artificial Intelligence* 68 (2018): 81-100.

3) **Partha P. Biswas**, P. N. Suganthan, B. Y. Qu, and Gehan AJ Amaratunga. "Multiobjective economic-environmental power dispatch with stochastic wind-solar-small hydro power." *Energy* 150 (2018): 1039-1057.

4) **Partha P. Biswas**, R. Mallipeddi, P. N. Suganthan, and Gehan AJ Amaratunga. "A multiobjective approach for optimal placement and sizing of distributed generators and capacitors in distribution network." *Applied Soft Computing* 60 (2017): 268-280

5) **Partha P. Biswas**, P. N. Suganthan, and Gehan AJ Amaratunga. "Decomposition based multi-objective evolutionary algorithm for windfarm layout optimization." *Renewable Energy* 115 (2018): 326-337.

6) **Partha P. Biswas**, P. N. Suganthan, and Gehan AJ Amaratunga. "Minimizing Harmonic Distortion in Power System with Optimal Design of Hybrid Active Power Filter using Differential Evolution." *Applied Soft Computing* 61 (2017): 486-496.

Conferences:

1) **Partha P. Biswas**, P. N. Suganthan, and Gehan AJ Amaratunga. "Optimal placement of wind turbines in a windfarm using L-SHADE algorithm." In *Evolutionary Computation (CEC), 2017 IEEE Congress on*, pp. 83-88. IEEE 2017.

2) **Partha P. Biswas**, Noor H. Awad, P. N. Suganthan, Mostafa Z. Ali, and Gehan AJ Amaratunga. "Minimizing THD of multilevel inverters with optimal values of DC voltages and switching angles using LSHADE-EpSin algorithm." In *Evolutionary Computation (CEC), 2017 IEEE Congress on*, pp. 77-82. IEEE 2017.

3) **Partha P. Biswas**, P. N. Suganthan, and Gehan AJ Amaratunga. "Optimization of Wind Turbine Rotor Diameters and Hub Heights in a Windfarm Using Differential Evolution Algorithm." *Proceedings of Sixth International Conference on Soft Computing for Problem Solving*. Springer, Singapore, 2017.

4) **Partha P. Biswas**, R. Mallipeddi, P.N. Suganthan, and Gehan AJ Amaratunga. "Optimal reconfiguration and distributed generator allocation in distribution network using an advanced adaptive differential evolution." *Computational Intelligence (SSCI), 2017 IEEE Symposium Series on*. IEEE, 2017.

5) **Partha P. Biswas**, P. N. Suganthan, and Gehan AJ Amaratunga. "Distribution network reconfiguration together with distributed generator and shunt capacitor allocation for loss minimization." *IEEE World Congress on Computational Intelligence*, IEEE, 2018 (accepted).

6) **Partha P. Biswas**, P. N. Suganthan, and Gehan AJ Amaratunga. " Optimal power flow solutions using population reduction technique of success history based adaptive differential evolution algorithm." *IEEE World Congress on Computational Intelligence*, IEEE, 2018 (accepted).

Unpublished / Under review manuscripts:

1) **Partha P. Biswas**, P. N. Suganthan, R. Mallipeddi, and Gehan AJ Amaratunga. "Multi-objective optimal power flow solutions with an effective constraint handling technique." *Electric Power Systems Research*, submitted.

2) **Partha P. Biswas**, P. N. Suganthan, R. Mallipeddi, and Gehan AJ Amaratunga. "Optimal reactive power dispatch with uncertainties in load demand and solar power." *Applied Soft Computing*, submitted.

3) **Partha P. Biswas**, P. N. Suganthan, R. Mallipeddi, and Gehan AJ Amaratunga. "Optimal power flow study of a wind integrated electrical network with optimum placement and sizing of FACTS devices." *Applied Soft Computing*, submitted.

4) **Partha P. Biswas**, P. N. Suganthan, G. Wu, and Gehan AJ Amaratunga. " Parameter estimation of solar cells using datasheet information with an adaptive differential evolution algorithm." *Renewable Energy*, submitted.

5) **Partha P. Biswas**, and P. N. Suganthan. "Multi-objective evolutionary optimization." *Wiley Encyclopedia of Electrical and Electronics Engineering*, submitted.