Curriculum Vitae

Name: Dr. Wong Ling Ai

List of Research:

Internal Grant

1. Control algorithm for battery energy storage system to improve the performance of power system.Research ID: UCTS/RESEARCH/2/2018/07

2. Optimal allocation of battery energy storage system in PV integrated power system for power quality improvement Research ID: UCTS/RESEARCH/1/2019/08

3. Optimal placement and sizing of BESS considering 'duck curve' issue using enhanced whale optimisation algorithm Research ID: UCTS/RESEARCH/2/2021/04

List of Publications:

Journal

1. Wong, L. A., Shareef, H., Mohamed, A., & Ibrahim, A. A. (2017). Optimal placement and sizing of energy storage system in distribution network with photovoltaic based distributed generation using improved firefly algorithms. *World Academy of Science, Engineering and Technology, International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, 11*(7), 864-872.

2. Wong, L. A., Ramachandaramurthy, V. K., Taylor, P., Ekanayake, J., Walker, S. L., & Padmanaban, S. (2019). Review on the optimal placement, sizing and

control of an energy storage system in the distribution network. *Journal of Energy Storage, 21*(1), 489-504.

3. Wong, L. A., Ramachandaramurthy, V. K., Taylor, P., Ekanayake, J., Walker, S. L., & Padmanaban, S. (2019). Review on the optimal placement, sizing and control of an energy storage system in the distribution network. *Journal of Energy Storage, 21*(1), 489-504.

4. Wong, L. A., & Ramachandaramurthy, V. K. (2020). Optimal battery energy storage system placement using Whale optimization algorithm. *International Journal of Electrical and Electronic Engineering & Telecommunications, 9*(4), 268-272.

5. Wong, L. A., Ramachandaramurthy, V. K., Walker, S. L., & Ekanayake, J. B. (2020). Optimal placement and sizing of battery energy storage system considering the duck curve phenomenon. *IEEE Access, 8*, 197236-197248.

Proceedings

1. Wong, L. A., & Ramachandaramurthy, V. K. (2020). *A Case Study on Optimal Sizing of Battery Energy Storage to Solve 'Duck Curve'Issues in Malaysia.* Paper presented at the 2020 International Conference on Smart Grid and Clean Energy Technologies (ICSGCE).

2. Wong, L. A., Ling, T. J., & Ramlee, N. A. (2018). *Optimal power quality monitors placement using improved lightning search algorithm.* Paper presented at the 2018 IEEE 7th International Conference on Power and Energy (PECon).

3. Wong, L. A., & Ramachandaramurthy, V. K. (2020). *A Case Study on Optimal Sizing of Battery Energy Storage to Solve 'Duck Curve'Issues in Malaysia.* Paper presented at the 2020 International Conference on Smart Grid and Clean Energy Technologies (ICSGCE).

4. Wong, L. A. & Ramachandaramurthy, V. K. (2021*). Optimal Allocation of Battery Energy Storage System Using Whale Optimization Algorithm.* Paper presented at the 2021 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME).

5. Wong, L. A. & Ramachandaramurthy, V. K. (2021). *Optimal Allocation of Battery Energy Storage System Using WOA-AIS considering Net Load Issue*. Paper presented at the 2021 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME).