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	Current Position	Associate Professor
	Office	A1 # 436, Xiamen University Malaysia, Jalan Sunsuria, Bandar Sunsuria, 43900 Sepang, Selangor.
	Programme	Electrical and Electronics Engineering, School of Computer and Electrical Engineering.
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RESEARCH INTERESTS

Artificial Intelligence, Machine Learning, Deep learning, Power system faults detection and diagnosis, Computer vision and image processing, Pattern recognition, Regression and Forecasting, Internet of Things (IOT), Environmental waste management, and other applications of artificial intelligence.

EDUCATIONAL BACKGROUND

- Doctor of Philosophy in Engineering, National Energy University (UNITEN), Malaysia, 2015.
- Master of Electrical Engineering, National Energy University (UNITEN), Malaysia, 2011.
- Bachelor of Electrical & Electronics Engineering (Hons), National Energy University (UNITEN), Malaysia, 2010.

WORKING EXPERIENCE

Research Associate, National Energy University, Malaysia. (2010-2017)

Engineer, YTL Communications Sdn Bhd., Malaysia. (2010 – 2016)

Trainee Engineer, YTL Power Generations Sdn. Bhd., Malaysia. (2009-2010)

PROFESSIONAL APPOINTMENTS / MEMBERSHIPS

- **Professional Engineer** (PEng / Ir.) registered to the Board of Engineers Malaysia (**BEM**)
- **IEEE Senior Member**, Institute of Electrical and Electronics Engineers (IEEE).
- **Corporate Member**, Institutions of Engineers Malaysia (**IEM**)
- **Editorial Board Member**, *Applied Soft Computing* Journal
- **Technical Conference Committee**, International Conference on Biomedical Engineering and Bioinformatics (ICBEB), Berlin, Germany, 2020.

- **Technical Conference Committee**, International Conference on Biomedical Engineering and Bioinformatics (ICBEB), Universiti Sains Malaysia (USM), 2019.

HONORS / AWARDS

- **Best Presenter Award**, IEEE Conference on Systems, Process, and Controls, Dec 2018.
- **Top Reviewer Recognition Certificate**, Elsevier, 2018 and 2019.
- **Innovation and Invention Award**, Malaysia Technology Expo (MTE), Malaysian Association of Research Scientists, 2016.
- **Highest ISI Ranking Journal Award**, Research Management Center, National Energy University, July 2015.
- **Gold Medal Award**, Institution of Engineers Malaysia (**IEM**), 2011.

REPRESENTATIVE PUBLICATION

1. **S. Y. Wong***, K. S. Yap, X. Li, "A New Probabilistic Output Constrained Optimization Extreme Learning Machine," IEEE Access, Feb 2020. DOI: 10.1109/ACCESS.2020.2971012.
2. C. T. Yaw, K. S. Yap, **S. Y. Wong***, H. J. Yap, S. P. Koh, "Enhancement for Neural Network Based Multi Agent System for Classification and Regression in Energy System", IEEE Access, July 2020. DOI: 10.1109/ACCESS.2020.3012983.
3. **S. Y. Wong***, K. S. Yap, C. P. Lim, E. W. M. Lee, "Hybrid Data Regression Model Based on the Generalized Adaptive Resonance Theory Neural Network, "IEEE Access, Aug. 2019. DOI: 10.1109/ACCESS.2019.2935454.
4. **S. Y. Wong***, K. S. Yap, Q. Zhai, X. Li, "Realization of a Hybrid Locally Connected Extreme Learning Machine with DeepID for Face Verification," IEEE Access, June 2019. DOI:10.1109/ACCESS.2019.2919806.
5. X. Li, K. Wu, Q. Zhang, S. Lin, Y. Chen, and **S. Y. Wong***, "A High Throughput and Pipelined Implementation of the LUKS on FPGA," Journal of Circuits, Systems and Computers, 2020. DOI: 10.1142/S0218126620500759.
6. C T Yaw, K S Yap, **S Y Wong***, C H Tan, "Extreme Learning Machine with Multi-Agent System for Regression," International Journal of Engineering and Advanced Technology, vol. 9, no. 2, Dec 2019.
7. C H Tan, K S Yap, **S Y Wong***, M T Au, C T Yaw, H J Yap, "Genetic Rules Induction Fuzzy Inference System for Classification and Regression Application in Energy Industry," International Journal of Engineering and Advanced Technology, vol. 9, no. 2, Dec 2019.

8. S Y Leow, K S Yap, **S Y Wong***, "Harmonic Current Classification Using Hybrid FAM-RBF Neural Network," Indonesian Journal of Electrical Engineering and Computer Science, vol. 14, no. 2, Oct. 2019.
9. C T Yaw, **S Y Wong***, K S Yap, "An ELM-based Single Input Rule Module and its Application in Power Generation," International Journal of Power Electronics and Drive System, vol. 10, no. 3, Oct. 2019.
10. S. Y. Leow, **S. Y. Wong***, K. S. Yap, H.J. Yap, "A hybrid algorithm of interval type-2 fuzzy logic system and generalized adaptive resonance theory for medical data classification," International Intelligent Decision Technologies, vol. 13, pp. 81-89, 2019.
11. **S. Y. Wong***, K. S. Yap, X. Li, "A Genetic Algorithm based Fuzzy Inference System for Pattern Classification and Rule Extraction," International Journal of Engineering & Technology, vol. 7, pp 361-368, 2018.
12. C T Yaw, **S. Y. Wong***, K. S. Yap, C. H. Tan, "Extreme Learning Machine Neural Networks for Multi Agent System in Power Generation," International Journal of Engineering & Technology, vol. 7, pp 347-353, 2018.
13. C. H. Tan, M. S. Tan, S. W. Chang, K. S. Yap, H.J. Yap, **S. Y. Wong**, "Genetic Algorithm Fuzzy Logic for Medical Knowledge Based Pattern Classification," Journal of Engineering Science and Technology, pp. 242-258, 2018.
14. **S. Y. Wong***, K. S. Yap, X. Li, "Classification of the Harmonic Load Types using Multi-Layer Extreme Learning Machine," in Proc. of 5th IET International Conference on Clean Energy and Technology (IEEE Xplore), Malaysia, 2018. DOI: 10.1049/cp.2018.1300.
15. **S. Y. Wong***, K. S. Yap, C. H. Tan, "Hybrid Genetic Algorithm based Fuzzy Inference System for Data Regression," in Proc. of IEEE Conference on Systems, Process and Control (IEEE Xplore), Malaysia, 2018. DOI: 10.1109/SPC.2018.8704148.
16. S. Y. Leow, K. S. Yap, H. J. Yap, **S. Y. Wong**, "A performance evaluation of pruning effects on hybrid neural network, " Journal of Fundamental and Applied Sciences, vol. 9, no. 4S, pp. 293-309, 2017.
17. C T Yaw, **S. Y. Wong***, K S Yap, H. J. Yap, UAU Amirulddin, "An ELM Based Multi Agent System and Its Applications to Power Generation," International Intelligent Decision Technologies, vol. 11, no. 3, pp. 297-305, 2017.
18. S. Y. Leow, **S. Y. Wong***, K. S. Yap, H. J. Yap, "A New Hybrid Fuzzy ARTMAP and Radial Basis Function Neural Network with Online Pruning Strategy," In Proc. of the 7th IEEE Control and System Graduate Research Colloquium (ICSGR), vol. 1, 1-5, 2016.

19. S. Abolfazli, **S. Y. Wong***, A. Tabassi, S. Rosen, "Throughput Measurement in 4G Wireless Data Networks: Performance Evaluation and Validation," in Proc. of IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE), vol. 1, pp. 27-32, 2016.
20. **S. Y. Wong***, K S Yap, H. J. Yap, "A Constrained Optimization based Extreme Learning Machine for noisy data regression," (Elsevier) Neurocomputing, vol. 171, pp. 1431-1443, 2016.
21. **S. Y. Wong***, K S Yap, H. J. Yap, S. C. Tan, C. S. Wee, "On Equivalence of FIS and ELM for Interpretable Rule-Based Knowledge Representation," IEEE Transactions on Neural Networks and Learning Systems, vol. 27, no. 7, pp. 1417-1430, 2015.
22. **S. Y. Wong***, K S Yap, H. J. Yap, S. C. Tan, "A Truly Online Learning Algorithm using Hybrid Fuzzy ARTMAP and Online Extreme Learning Machine for Pattern Classification," (Springer) Neural Processing Letters, vol. 42, no. 3, pp. 585-602, 2015.