ANITA PHILIPS

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Summary

Overall professional work experience in IT industry (Corporate & Academic) for more than 17 years, Researcher and Software Professional, proficient in teaching, expertise in Software development, Systems Analysis, Data Security, Cyber Security, Data Mining and Data Analytics.

A certified professional in Microsoft technologies, my current research interest is in the area of cyber security in electrical power sector with an emphasis on the application of data encryption and analysis in metering infrastructure of Smart Grid Networks.

Inter-disciplinary research experience in Computer Science and Electrical Engineering, carried out research works in the area of IoT systems, Trust Manamement, Medical Cyber-Physical systems, Machine Learning.

Education

Doctor of Philosophy (Ph.D), Electrical & Electronics Engineering
Karunya University, Coimbatore, India, 2018 – 2022

Master of Science (M.S), Software Systems
Birla Institute of Technology & Science (BITS) Pilani, Dubai, 2007 – 2009

Bachelor of Engineering (B.E), Electronics and Communication
Bharathiar University, Coimbatore, India, 1993 – 1997

Professional Experience

Associate Researcher, Kuwait University - *since Jan 2023*

Research Scholar, Karunya University - *Jul 2018-2022*

System Analyst, Kuwait Public Transport Co. - *2005-2015*

Sr. Programmer, Kuwait Public Transport Co. - *2000-2005*

Programmer, Bitech, India - *Aug 1997-2000*

Publications

- ✓ Philips, A., & Jayakumar, J. (2020a). A study on the encryption algorithms in the metering infrastructure of smart grids. Journal of Green Engineering, 10(12), 13150–13176.
- ✓ Philips, A., & Jayakumar, J. (2020b). Data analytics in metering infrastructure of smart grids – a review. Journal of Green Engineering, 10(11), 11205–11232.
- ✓ Philips, A., Jayakumar, J., & Lydia, M. (2021). A review on cyber security in metering infrastructure of smart grids. In Advances in Intelligent Systems and Computing (Vol.1227). Springer Singapore. https://doi.org/10.1007/978-981-15-6876-3_10
- ✓ Philips, A., Jayaraj, J., F.T, J., & P, V. (2021). Enhanced RSA key encryption application for metering data in smart grid. International Journal of Pervasive Computing and Communications, 17(5), 596–610. https://doi.org/10.1108/IJPCC-07-2021-0172
- ✓ Philips, A., Jayaraj, An Efficient ARIA-RSA-SHA256 Hybridized Encryption Algorithm for Metering Data in Smart Grid Network Systems – Accepted for publication in International Journal of Renewable energy Research IJRER (March2023).
- ✓ Philips, A., Jayaraj, Time-Series based household electricity consumption forecasting - Accepted for publication in 11th International conference on Smart Grid, Paris, France. (May2023).