Thitinan Tantidham

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Research Interests

Internet of Things (IoT) Systems and Applications, IoT Security, Green Computing

Professional Experience

Assistant Professor, Faculty of ICT, Mahidol University since April 2018

Education

Doctor of Natural Sciences (Dr. rer. nat.), Computer Science Department,
RWTH Aachen University, Germany.
Thesis Topic: Energy-Efficient Design for Portable Storages on Battery-Powered Computers

Master Degree in Computer Science, Mahidol University, Thailand.
Thesis Topic: An Application of Neural Networks to Optimal Path Computation in Computer Networks

Bachelor Degree in Computer Engineering, Kasetsart University, Thailand.

Selected Research Grants

2018 – present: Government Budget Grant: digital Direct Observed Therapy (d-DOT)
2017 – present: Ministry of Energy: The Monitoring and Analysis Energy Consumption in a
                        Building based on IoT and Big Data
2014-15: Mahidol University Research Grant: Online Power Consumption Monitoring and
                Recording System

Selected Publications

Copyright (Computer Program) 2016:
Smart E^2MS (Smart Energy and Environment Management System)

Tantidham T. Aug YN, Emergency service for smart home system using ethereum blockchain: system and architecture. In: the 3rd International Workshop on Smart Edge Computing and Networking (SmartEdge); 2019 March 11-15; Kyoto, Japan; 2019.

Aung YN, Tantidham T. Ethereum-based emergency service for smart home system: smart contract implementation. In: the 21st International Conference on Advanced Communication Technology (ICACT); 2019 February 17-20; Phoenix Park, Pyeongchang, Korea (South); 2019.

Tantidham T., Ngamsuriyaroj S., Nildam T., Tungamnuayrith N., Banthao K., Intakot P. Energy consumption collection design for smart building. In: The 2018 International

Conference on Embedded Systems and Intelligent Technology & International Conference on Information and Communication Technology for Embedded Systems (ICESIT-ICICTES); 2018 May 7; Khon Kaen, Thailand; 2018.

Aung YN, Tantidham T. Review of Ethereum: smart home case study. In: the 2nd International Conference on Information Technology; 2017 Nov 2-3; Nakhon Pathom, Thailand; 2017.

Daramas A., Pattarakitsophon S., Eiumtrakul K. Tantidham T., Tamkittikhun N. HIVE: Home Automation System for Intrusion Detection, International Senior Project Conference (ISPC), Nakhon Pathom, Thailand 2016.

Tamkittikhun N., Tantidham T., Intakot P. AC Power Meter Design Based on Arduino: Multichannel Single-Phase Approach. 19th International Computer Science and Engineering Conference (ICSEC), Chiangmai, Thailand 2015.

Tamkittikhun N., Tantidham T., Intrakot P. AC Power Meter Design for Home Appliances. ECTI-CON 2015, Thailand 2015.

Manupipatphong C., Siripornkitti N., Kattiyawong P., Tantidham T. Smart E^{2}MS: Smart Energy and Environment Management System, International Senior Project Conference (ISPC), Japan 2015.

Suwansit K., Konsombut B., Hankongkaew P., Tantidham T. PMA: Power Monitoring Application for Android. International Senior Project Conference (ISPC), Nakhon Pathom 2014.
Luangsa-ard C., Tantidham T., Intrakot P. An Arduino Network Design for Multipoint Power Monitoring System. The 2014 First International Conference on Engineering Science and Innovative Technology (ESIT 2014), Thailand 2014.