PERSONAL DATA

Name : Dr. THITINAN KLIANGSUWAN
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EDUCATION

Ph.D. Degree	2017	Ph.D. in Computer Engineering, Prince of Songkla University, Hatyai, Songkla, Thailand
Bachelor Degree	2012	B.Eng. in Computer Engineering (First Class Honours), Prince of Songkla University, Phuket, Thailand

RESEARCH INTERESTS

Smart Education, Precision agriculture, AI in Medical & Healthcare

Image Processing

Pattern Recognition

Machine Learning

RESEARCH PROJECTS

Half-FFT Features and Hierarchical Algorithms for Cloud Type Classification Using Ground-Based Images
Smart Attendance System Using Face Recognition
Research Projects

APPOINTMENT

Executive experiences:
2022- Present: Head of INFAR Research Team, CoC, PSU, Phuket Campus

Work experiences:
2017- Present: Lecturer at Prince of Songkla University, Phuket, Thailand

TEACHING

- Intelligent Systems
- E-sport
- Machine Intelligence
- Software Engineering
- Electric Circuits
- Computer Security
- Introduction to Engineering
- Programming Techniques
- Software Development Methodologies
- Computer Engineering Project and Laboratory

INTERNATIONAL JOURNAL ARTICLES

Silanon, K., Chaowanawatee, K., & Kliangsuwan, T. (2024). Thai amulet recognition using vision transformers. *Songklanakarin Journal of Science and Technology (SJST)*, 46(2), 226-233

4/2024

Heednacram, A., Kliangsuwan, T., & Werapun, W. (2024). Implementation of Four Machine Learning Algorithms for Forecasting Stock's Low and High Prices. *Neural Computing and Applications*, 36(31), 19323-19336

8/2024

Chaowanawatee, K., Silanon, K., & Kliangsuwan, T. (2023). Thai Finger-Spelling using Vision Transformer. *International Journal of Advanced Computer Science and Applications (IJACSA)*, 14(11), 348-353

11/2023

Kliangsuwan, T., & Heednacram, A. (2018). FFT features and hierarchical classification algorithms for cloud images. *Engineering Applications of Artificial Intelligence*, 76, 40-54.

11/2018

Kliangsuwan, T., & Heednacram, A. (2015). Feature extraction techniques for ground-based cloud type classification. *Expert Systems with Applications*, *42*(21), 8294–8303.

11/2015

Kliangsuwan, T., & Heednacram, A. (2014). Classifiers for ground-based cloud images using texture features. *Advanced Materials Research*, *931*, 1392–1396.

5/2014

INTERNATIONAL PROCEEDINGS

Tadiwa Vhito, Jakapan Suaboot, Warodom Werapun, Thitinan Kliangsuwan, "Effects of Malware Detection Parameters on Classical vs Deep ML Techniques", *Proceedings of the 7th International Conference on Information Technology (InCIT2023)*, no. 6027, pages 465-470, Chiang Rai, Thailand, November 15 – 17, 2023. (IEEE Xplore Digital Library, SCOPUS Indexing)

11/2023

Thitinan Kliangsuwan, Apichat Heednacram, Kittasil Silanon, "Face Recognition Algorithms for Online and On-Site Classes", *Proceedings of the 19th International Joint Conference on Computer Science and Software Engineering (JCSSE2022)*, no. 1570800337, pages 1-6, Bangkok, Thailand, June 22 – 25, 2022. (IEEE Xplore Digital Library, SCOPUS Indexing)

6/2022

Kullawat Chaowanawatee, Kittasil Silanon, Thitinan Kliangsuwan, "Phuket Landmark Recognition using Fine-

Tuned Convolutional Neural Network", *Proceedings of the 13th International Congress on Advanced Applied Informatics Winter (IIAI-AAI-Winter)*, pages 257-261, Phuket, Thailand, December 12 – 14, 2022. (IEEE Xplore Digital Library, SCOPUS Indexing)

12/2022

Keaomanee, Y., Kliangsuwan, T., & Kanjanasit, K. (2021). A Study of Lightweight Dynamic Algorithm of Power Management System for Small Satellite Applications. In *Presented at the 2nd Innovation Aviation & Aerospace Industry-International Conference* (Vol. 28, p. 30).

https://sciforum.net/paper/view/10592

7/2021 *Applied Sciences and Engineering, Power Management System*

Chochiang, K., Chaowanawatee, K., Silanon, K., & Kliangsuwan, T. Arduino Visual Programming. In *2019 23rd International Computer Science and Engineering Conference (ICSEC)* (pp. 82-86). IEEE.

11/2019

Chochiang, K., Chaowanawatee, K., Silanon, K., & Kliangsuwan, T. ArViz: An IoT Teaching Tool for High School Students. In *2019 23rd International Computer Science and Engineering Conference (ICSEC)* (pp. 87-91). IEEE.

11/2019

Kliangsuwan, T., & Heednacram, A. (2016). A low-cost local cloud monitoring system. In *2016 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS)* (pp. 1-6). IEEE.

10/2016

OTHERS

REVIEWER/PROGRAM COMMITTEES

- The 21st International Joint Conference on Computer Science and Software Engineering (JCSSE 2024)
- The 21st International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2024)
- The 7th International Conference on Information Technology (InCIT 2023)
- The 15th International Conference on Information Technology and Electrical Engineering (ICITEE 2023)
- The 20th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2023)
- The 18th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2021)
- The 17th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2020)
- The 23rd International Computer Science and Engineering Conference (ICSEC 2019)

LEADERSHIP EXPERIENCES

- Chairman of the Program Committee (Master of Science Program), College of Computing, PSU, Phuket Campus 2019

RESEARCH GRANTS

Durian Fruits Harvest Prediction from Aerial Imagery

: 100,000 baht funded by College of Computing, PSU, 2023

2023

Automatic Durian Fruits Counting from Aerial Imagery

: 50,000 baht funded by PSU Phuket, 2023

2023

INFAR (Information engineering for Andaman Region) Research Team

: 750,000 baht funded by College of Computing, PSU, 2022 - 2024

2022

Smart Attendance System Using Face Recognition

: 100,000 baht funded by PSU Phuket, 2020

2020

PSU.GS. Financial Support for Thesis

: 80,000 baht funded by PSU Phuket, 2013 - 2014

2013

AWARDS

Scholarships

- Scholarships for graduate study of Faculty of Engineering (Amount: 720,000 THB), Period: June 2012 – June 2016

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