

## PERSONAL DATA



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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

## APPOINTMENT

**Executive experiences:**

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

**Work experiences:**

## 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

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

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

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

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

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*

6/2022

Keaomane, 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

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### Scholarships

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

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### COLLEGE OF COMPUTING

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