# COLLEGE OF COMPUTING
## Prince of Songkla University Phuket Campus

PRINCE OF SONGKLA UNIVERSITY

## PERSONAL DATA

**Name** : DR. THITINAN KLIANGSUWAN

**Position** : Lecturer

**Email** : thitinan.kl@phuket.psu.ac.th

**Phone** : +66 7627 6560

**Website** : https://urban.cpe.ku.ac.th/ThailandResearch/?nameID=1360

**ORCID** : 0000-0003-1428-7295

**SCOPUS ID** : 56181302800

## PUBLICATIONS SUMMARY

| 6 | 7 | 5 |
|---|---|---|
| International Journal | International. Proceedings | Research Grants |

**Total Publications: 18**

## 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*

*Machine Learning*

*Pattern Recognition*

## 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:**

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

## 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

## 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 Engineering (JCSSE2022)*, no. 1570800337, pages 1-6, Bangkok, Thailand, June 22 – 25, 2022. (IEEE Xplore Digital Library, SCOPUS Indexing)

📅 *6/2022*

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*

## RESEARCH GRANTS

### Automatic Durian Fruits Counting from Aerial Imagery
: 50,000 baht  funded by PSU Phuket, 2023

📅 *2023*

### Durian Fruits Harvest Prediction from Aerial Imagery
: 100,000 baht  funded by College of Computing, PSU, 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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**COLLEGE OF COMPUTING**
Prince of Songkla University Phuket Campus
80 M.1 Vichitsongkram Road Kathu, Phuket 83120
Email: coc@phuket.psu.ac.th
Website: computing.psu.ac.th