

PERSONAL DATA



Name : Dr JAKAPAN SUABOOT

Position : Lecturer

Email : jakapan.su@psu.ac.th

Phone : +6676276000 ext 6182

Website : <https://www.researchgate.net/profile/Jakapan-Suaboot>

ORCID : [0000-0002-9519-0833](https://orcid.org/0000-0002-9519-0833)

EDUCATION

| | | |
|------------------------|------|------------------------------------------------------------------------------|
| Ph.D. Degree | 2021 | PhD (Computer Science), RMIT University. |
| Master Degree | 2010 | Master of Engineering (Computer Engineering), Prince of Songkla University |
| Bachelor Degree | 2007 | Bachelor of Engineering (Computer Engineering), Prince of Songkla University |

RESEARCH INTERESTS

Network Security



Malware Detection



Memory Forensics



Machine Learning



Data Leakage Detection



APPOINTMENT

2022 April – 2023 April

Chairperson of Master of Science Program in Computing

2013 October – 2015 October

Associate Department Head for Student Affairs, Department of Computer Engineering, Faculty of Engineering, Prince of Songkla University, Phuket Campus

2010 May - 2013 September

Lecturer, Department of Computer Engineering, Faculty of Engineering, Prince of Songkla University, Phuket Campus

TEACHING

Current Teaching:

Hacking and Penetration Security Testing

Computer Operation Systems

Courses in the past:

Introduction to Computer Programming

Data Structures and Computer Programming Techniques

Mathematics for Computer Engineering

Computer Security

Cybersecurity

Software Engineering

Software Development Methodologies

Client/Server Computing and Web Technologies

Supervisor of over 50 senior projects during 2011-2014

Short Courses:

Open source software for business using LibreOffice

Full Stack Java Script Framework with MEAN (Mongo Express Angular Node)

MSc/PhD Students

1. Mr.Tadiwa Vhito (2023 - Present)



I am accepting master students, Master of Science (Computing). Please feel free to contact me if you are interested in doing research on the following topics:

- Malware detection
- Data leakage detection
- Memory forensics
- Penetration testing
- Sequential patterns mining
- Cybersecurity and machine learning.

For a scholarship, please apply [here](#).

INTERNATIONAL JOURNAL ARTICLES

W. Werapun, J. Suaboot, P. Tantisarkhornkhet, and J. Thaenthong, "SVC-MST BWQLB Multicast over Software-Defined Networking," *Int. J. Internet Protocol Technology*, vol.16, issue 4, 2023, pp.1-13 (Scopus indexed)

 11/2023  internet protocol, software define network, multimedia

W. Werapun, T. Karode, J. Suaboot, T. Arpornthip, E. Sangiamkul, "NativeVRF: A Simplified Decentralized Random Number Generator on EVM Blockchains," *Systems*, Vol . 11, Issue 7:326, 25 June 2023, pp.1-23. [ISI Q1]

 6/2023  blockchain, random number generator

W. Werapun, T. Karode, T. Arpornthip, J. Suaboot, E. Sangiamkul, and P. Boonrat, "The Flash loan Attack Analysis (FAA) Framework -- A Case Study of the Warp Finance Exploitation," *Informatics*, Vol.10, Issue 1, December 2022, pp.1-22. [SCOPUS Q1]

 12/2022  flash loan attacks, defi vulnerability, Cryptocurrency, equity

J. Suaboot, A. Fahad, Z. Tari, J. Grundy, A.N. Mahmood, A. Almalawi, A.Y. Zomaya, and K. Drira. A taxonomy of supervised learning for IDSs in SCADAenvironments. *ACMComputing Surveys (CSUR)*, 53(2): 1–37, 2020. (A* journal/Q1 tier 1)

 4/2020

J. Suaboot, Z. Tari, A.N. Mahmood, A.Y. Zomaya, and W. Li. Sub-curve HMM: A malware detection approach based on partial analysis of API call sequences. *Computers & Security*, 92: 1–15, 2020. (Rank 6th – Google Scholar Metrics, Computer Security & Cryptography/ Q1)

 3/2020

INTERNATIONAL PROCEEDINGS

W. Werapun, J. Suaboot, S. Rattanabunno, T. Karode, M. Puongmanee, "An EOA Identity Tracing System (AITS) on Ethereum Blockchain," in *2023 8th International Conference on Information and Network Technologies (ICINT 2023)*, Tokyo, Japan, May 19-21, 2023, pp.61-65.

 5/2023

C. Jiamsuchon, J. Suaboot and N. Rattanavipanon, "From Characters to Chaos: On the Feasibility of Attacking Thai OCR with Adversarial Examples," *2023 20th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)*, 9-12 May, Nakhon Phanom, Thailand, 2023, pp. 1-5, doi: 10.1109/ECTI-CON58255.2023.10153157.

 5/2023

T. Vhito, J. Suaboot, W. Werapun, T. Kiangsuwan, "Effects of Malware Detection Parameters on Classical vs Deep ML Techniques," in *The 7th International Conference on Information Technology (InCIT2023)*, 15-17 Nov. 2023, Chiang Rai, Thailand, pp. 440-445.

 11/2023  malware, machine learning

W. Werapun, N. Songsom, T. Khongfai, A. Intrapradit, J. Suaboot, "Andaman Token: A Feasibility Study of Blockchain Adoption in the Tourism Industry," in *2023 14th International Conference on Information and Communication Technology Convergence (ICTC 2023)*, 11-13 Oct. 2023, Jeju Island, Korea, pp. 681-686.

 10/2023  token, Tourism, phuket

N. Songsom, W. Werapun, **J. Suaboot**, N. Rattanavipanon, "The SWC-Based Security Analysis Tool for Smart Contract Vulnerability Detection," In the 6th International Conference on Information Technology (InCIT) 2022, 10-11 November 2022, Bangkok, Thailand, pp.74-77.

 11/2022  blockchain, swc

S. Witosurapot and **J. Suaboot**, "Smart Grid Group Security for UPnP-based Smart Home Automation," in the 29th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2014), July 1-4, 2014, Phuket, Thailand, pp. 610-611.

 7/2014

W. Werapun and **J. Suaboot**, "Data Integrity for Energy Measurement of Sensor Nodes as Home Services," (to be published) in the 29th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2014), July 1-4, 2014 Phuket, Thailand, pp. 829-830.

 7/2014

J. Surbot and S. Witosurapot, "A Collaboration Agent for Exploiting Legacy Phones in Assistive UPnP-based Home Environments," in *Proceeding of The 7th International Joint Conference on Computer Science and Software Engineering (JCSSE 2010)*, Bangkok, Thailand, May. 12-14, 2010.

 5/2010

J. Surbot and S. Witosurapot, "Integrating Group Key Distribution for Securing UPnP Services," in *Proceeding of The 2nd International Conference on Computer Engineering and Technology (ICCET 2010)*, Chengdu, China, Apr. 16-18, 2010, pp. 181-185.

 4/2010


NATIONAL PROCEEDINGS

J. Surbot and S. Witosurapot, "Discovering Secured Group Services among UPnP Networks ," in *Proceeding of The 6th National Conference on Computing and Information Technology (NCCIT 2010)*, Bangkok, Thailand, Jun. 3-5, 2010.

 6/2010

BOOKS

Z. Tari, N. Sohrabi, J. Samadi, **J. Suaboot**, Data Exfiltration Threats and Prevention Techniques: Machine Learning and Memory-Based Data Security, USA, Wiley-IEEE Press, 27 Jun. 2023, 272 pages, ISBN 1119898870, <https://amzn.asia/d/cw0Sc0i>

 7/2023

TRAINING

Dec. 12-14, 2022: Participated in C3 Consensus, Concurrency & Cryptography Workshop.

Nov. 5-6, 2022: Participated in Red x Blue Pill 2022 by 2600 Thailand, Bangkok, Thailand.

Feb. 17-21, 2014: Participated in a training course: Mobile Application & Cloud Computing

Sep. 13-15, 2013: Participated in a training course Agile – an Alternative Software Development

Mar. 29-31, 2013: Participated in a training course: Oracle Database 11g Release 2: SQL Performance Tuning To High

Speed SQL For DBA and Developer

Jul. 9-10, 2011: Participated in a training course: Android based Application Development

Mar. 31 – Apr.1, 2011: Participated in a training course: Windows Phone 7 Boot Camp

Aug. 29 – Nov.8, 2010: Participated in a training course and obtained the Personal Software Process: PSP (SEI Certified PPSM Developer)

Nov. 11-12, 2008: Participated in “SAP SOA University Certification Program in Collaboration with PTT ICT” program and obtained the level 1: SAP SOA Technology Day.

Jul. 1 – Nov. 26, 2006: Participated in a training course and obtained the SUN CERTIFIED PROGRAMMER FOR THE JAVATM 2.

OTHERS

Session chair

- The 4th International Symposium on Asia AI (AI for Better Living & Environment), Phuket, Thailand, 2022.

Reviewer

- ECTI-CON 2024: The 21st International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology

- The Journal of Supercomputing

- JCSSE 2024 The 21st International Joint Conference on Computer Science and Software Engineering

- InCIT2023: The 7th International Conference on Information Technology

- Journal of Information Science and Technology (JIST)

- The 2024 Asia Joint Conference on Computing (AJCC2024)

- 2023 20th International Joint Conference on Computer Science and Software Engineering (JCSSE)

- The 20th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), MAY 9-12, 2023

- The International Conference on Sustainable Environment and Energy 2022 (ICoSEE 2022)

RESEARCH GRANTS

Beware of Quantum Threat: Detection of Vulnerable Software Binaries in Quantum World

: 599,060 baht funded by Government Budget Grant, 2024

 2024

INFAR (Information engineering for Andaman Region) Research Team

: 750,000 baht funded by College of Computing, Prince of Songkla University, 2022- 2024

 2022

BLOCK Research team

: 750,000 baht funded by College of Computing, Prince of Songkla University, 2020- 2022

 2020

Cyber Security Grants from National Research Council of Thailand (NRCT) on project “Development of Secured Group Communication for UPnP Technology in Smart Grid-enabled Home Energy Management”
, 2013

 2013

Scan Me !! CV Online



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