COLLEGE OF COMPUTING
Prince of Songkla University Phuket Campus

PERSONAL DATA

Name : Dr JAKAPAN SUABOOT

Position : Lecturer

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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:

Cybersecurity

Hacking and Penetration Security Testing

Computer Operation Systems

Medical Digital Technology

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)

2. Mr.Kaung Khant Wai Yan (2024-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.

A **research assistant position** is available. Email me for details.

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.204-216 (Scopus indexed)

📅 7/2024   🔖 internet protocol, software define network, multimedia

W. Werapun, T. Karode, **J. Suaboot,** T. Arporntip, 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

S. Rattanabunno, W. Werapun, **J. Suaboot**, 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. Kliangsuwan, "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 PSPSM 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 21st International Joint Conference on Computer Science and Software Engineering (JCSSE 2024), 20 June, Phuket, Thailand, 2024.

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

Reviewer

Journals:

-Discover Internet of Things (eISSN:2730-7239 CiteScore2023 7.5)

-ACM Computing Surveys (ISSN:0360-0300 IF 16.6)

-International Journal of Machine Learning and Cybernetics (eISSN: 1868-808X IF:5.6)

-The Journal of Supercomputing (eISSN 1573-0484 IF3.0)

-Journal of Information Science and Technology (JIST) (eISSN 2651-1053)

Proceedings

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

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

- InCIT2023: The 7th International Conference on Information Technology

 - 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

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