Asst. Prof. Nattavut Sriwiboon, Ph.D.

Assistant Professor of Information Technology,

Department of Computer Science and Information Technology,

Faculty of Science and Health Technology,

Kalasin University, THAILAND

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Education

June 2022: Ph.D. Computer Science, Faculty of Informatics, Mahasarakham University, Thailand

GPAX: 4.0 (on 4.0 scale)

June 2012: MSc. Information Technology, Faculty of Informatics, Mahasarakham University, Thailand

GPAX: 4.0 (on 4.0 scale)

May 2009: BSc. Computer Science, Faculty of Informatics, Mahasarakham University, Thailand

GPAX: 3.31 (on 4.0 scale)

Research areas

- Named Data Networking (NDN), Future Internet, Cryptology, Digital Signature, Web Security, Image Processing, Artificial Intelligence

Work Experiences

- February 15, 2021 - Now: Assistant Professor of Information Technology
- July 2012 – Now: A full time lecturer of Kalasin University, Thailand
- December 2011 – Now: *A Research Assistant* in ISAN (Information Security and Advanced Network) research lab
- May 2012: A reviewer of the Journal and Conference

Extra-curriculum Activities

- July 2012 – Now: A Computer Trainer for undergraduate and personnel of Kalasin University
- May 2012: A Computer Trainer for medical students of Mahasarakham University

Topic: Web Security

- November 2009 - February 2010: Internship at National Electronics and Computer Technology Center (NECTEC)

Project: Bandwidth Controller (BaCon)

Capabilities and Skills

- Programming
  - Languages: Java, C, C#, C++, Unix Shell Script, Python
  - Web Programming: ASP, ASP.net, PHP, Javascript, JSP, AJAX
  - Mobile Programming: Android, iOS
  - Web Services: Java Web Service, PHP NuSOAP
- Networking
  - Cisco devices
    - Installation, Configuration, Management, Trouble Shooting
    - Certificates of Cisco Certified Network Academy (CCNA) Semester I
  - Open Source Technologies
    - Linux: CentOS, ClearOS, Fedora, Redhat, Ubuntu, Debian, Backtrack, SUSE, Free BSD, Sun Solaris, Kali Linux etc.
    - Installation, Configuration, Performance Tuning, Trouble Shooting
    - Softwares: FreeRADIUS, OpenPGP, OpenSSL, Open Web Mail (sendmail, postfix), Pandora FMS, Asterisk, Chillispot etc.
  - Network API
    - Cryptology
    - Socket API
    - GnuPG
  - Others
    - VMWare
    - Virtual Box
- Databases
  - MySQL
  - MS SQL Server
  - Oracle
- Research
  - PhD. Thesis
    - Forward Secrecy Enhancement for Named Data Networking Access Control over Mobile Ad-Hoc Networks
    - Advisor : Dr. Somnuk Puangpronpitag
  - MSc. Thesis
    - Solution Prototyping for Web Application Man in the Middle Attack
    - Advisor : Dr. Somnuk Puangpronpitag

  - BSc. Senior Project:
    - Secured Verifiable E-contract Signing system version 3
    - Advisor : Dr. Somnuk Puangpronpitag

Publications

- N. Sriwiboon, "Improvement the Performance of the Chest X-ray Image Classification with Convolutional Neural Network Model by Using Image Augmentations Technique for COVID-19 Diagnosis", The Journal of KMUTNB., Vol. 31, No. 1, pp. 109-117, Jan. - Mar. 2021
- S. Phimphisan and N. Sriwiboon, "Image Processing for Fundus Image Classification using Deep Learning", The Journal of JIST, vol. 10, no. 2, pp. 19-25, Dec. 2020

- S. Boonkidram and N. Sriwiboon, "Physical Quality Investigation of Germinated Brown Rice by using Image Processing", The Journal of JIST, vol. 10, no. 2, pp. 101-109, Dec. 2020
- N. Pattansarn and N. Sriwiboon, "Image Processing for Classifying the Quality of the Chok-Anan Mango by Simulating the Human Vision using Deep Learning", The Journal of JIST, vol. 10, no. 1, pp. 24-29, Jun. 2020
- N. Sriwiboon, "A comparative efficiency of data mining algorithms for analysis of factors affecting the cancer", The SNRU Journal of Science and Technology, 8(3), pp. 344-352, Sep‑Dec 2016
- S. Puangpronpitag and N. Sriwiboon, "Simple and Lightweight HTTPS Enforcement to Protect Against SSL Striping Attack", In Proceedings of the 4th International Conference on Computational Intelligence, Communication Systems and Networks, pp.229 – 234, Thailand, 2012
- S. Puangpronpitag and N. Sriwiboon, "A New Detection & Protection Mechanism against Web Application Attack with HTTPS Enforcement", The Journal of KMUTNB., Vol. 22, No. 3, pp. 632-642, Sep. - Dec. 2012
- N. Sriwiboon and S. Puangpronpitag, "Detection & Protection Mechanisms Against SSL Stripping Attacks", In Proceedings of the 9th International Joint Conference on Computer Science and Software Engineering, pp. 25-30, 30 May - 01 Jun 2012, University of the Thai Chamber of Commerce (UTCC), Bangkok, Thailand, 2012
- N. Sriwiboon and S. Puangpronpitag, "Security Performance Evaluation of Solutions on Cookie Attacks", In Proceedings of the 8th National Conference on Computing and Information Technology, pp. 157-162, 26-27 April 2012, Petchaburi, Thailand, 2012
- N. Sriwiboon and S. Puangpronpitag, "A Design of One Time Password Authentication Using CAPTCHA", Information Technology Journal, Vol. 8, No. 1, pp. 36-43, January - June 2012
- N. Sriwiboon and S. Puangpronpitag, "A New Secure Authentication and Password Protection without Using Secure Socket Layer Protocol", In Proceedings of the 8th International Joint Conference on Computer Science and Software Engineering, pp. 13-18, 11-13 May 2011, Mahidol University, Thailand, 2011
- N. Sriwiboon and S. Puangpronpitag, "A New Secure Authentication for Web Server and Client", In Proceedings of Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology - Conference on Application Research and Development (ECTI - CARD 2011), pp. 238-243, 5-6 May 2011, Bangkok, Thailand, 2011
- N. Sriwiboon and S. Puangpronpitag, "Secured Multimedia Contract Tools", In Proceedings of Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology - Conference on Application Research and Development (ECTI - CARD 2010), pp. 474-479, May 2010, Thailand, 2010

Reference

- Dr. Somnuk Puangpronpitag

  The director of Information Security and Advanced Network (ISAN) research Lab and the Associate Dean for Research & International Affair

  Faculty of Informatics, Mahasarakham University

  E-mail: somnuk.p@msu.ac.th

  Relationship: The thesis advisor