Songpon Teerakanok

Address

Faculty of ICT
Mahidol University
999 Puttamonthon Rd. Salaya
Nakhon Pathom 73170
Thailand

Tel: +66 2 441 0909
Fax: +66 2 849 6099
Email: songpon.tee@mahidol.ac.th

Research Interests

Cybersecurity, Digital Forensics

Education

2019	Ritsumeikan University	D.Eng. Information Science and Engineering
2016	Ritsumeikan University	M.Eng. Information Science and Engineering
2013	Prince of Songkla University	B.Eng. Computer Engineering

Professional Experience

2013 – 2014	Mobile Application Developer, ASK Media Co. Ltd.
2019 – 2020	Senior Researcher, Research Organization of Science and Technology, Ritsumeikan University
2020 – 2021	Assistant Professor, Research Organization of Science and Technology, Ritsumeikan University

Selected Honors

2014 – 2019	Monbukagakusho Scholarship, awarded by Ministry of Education, Culture, Sports, Science and Technology, Japan
2018	「デジタル・フォレンジック優秀若手研究者」 Digital Forensics Young Researcher Award (Excellent Award)
2007 – 2013	JSTP Scholarship, awarded by NSTDA, Thailand

Selected Professional Services

2021	Technical Program Committee, IEEE International Workshop on Cyber Forensics, Security, and E-discovery (CFSE2021)
2020	Program Committee, IEEE International Workshop on Cyber Forensics in Software Engineering (CFSE 2020)
Reviewer	IEEE Access
Reviewer	IEEE Transactions on Information Forensics & Security (IEEE TIFS)
Reviewer	Artificial Intelligence Review (AIRE)
Reviewer	Security and Communication Networks
Reviewer	Journal of Digital Forensics, Security and Law (JDFSL)
Reviewer	Multimedia Systems
Reviewer	Electrical Engineering/Electronics, Computer,
Reviewer	Telecommunications and Information Technology (ECTI-CON)
Reviewer	Multidimensional Systems and Signal Processing
Reviewer	CODE BLUE
Reviewer	The Computer Journal
Reviewer	International Journal of Distributed Sensor Networks

Selected Publications

Journal Articles:

2021   S. Teerakanok*, T. Uehara, and A. Inomata, "Migrating to Zero Trust Architecture: Reviews and Challenges," *Security and Communication Networks*, 2021, in press.

2021.   S. Teerakanok*, T. Uehara, and A. Inomata, "A Secure Cloud-Centric IoT Framework for Smart Device Registration," *J. Information Processing (JIP)*, 2021, in press.

2021   D. Yamakawa*, T. Okimoto, S. Teerakanok, T. Uehara, and A. Inomata, "Enhancing Digital Certificate Usability in Long Lifespan IoT Devices by Utilizing Private CA," *Security and Communication Networks*, 2021.

2019   S. Teerakanok* and T. Uehara, "A Histogram and GLCM-based Approach for Image Copy-Move Forgery Detection," *J. Information Processing (JIP)*, vol. 60, no. 9, 2019.

2019.   S. Teerakanok* and T. Uehara, "Copy-Move Forgery Detection: A State-of-the-Art Technical Review and Analysis," *IEEE Access*, vol. 7, pp. 40550-40568, 2019.

2018.   S. Teerakanok* and T. Uehara, "Enhancement of Media Splicing Detection: A General Framework," *J. Digital Forensics, Security and Law*, vol. 13, no. 2, 2018.

2014   S. Teerakanok*, M. Pattaranantakul, C. Vorakulpipat, S. Kamolphiwong, and S. Siwamogsatham, "A Privacy-Preserving Framework for Location-Based Service: A Review of Structural Design and Analysis," *IETE Technical Review*, vol. 31, issue 6, 2014.

2013.   S. Teerakanok*, C. Vorakulpipat, S. Kamolphiwong, and S. Siwamogsatham, "Preserving Anonymity of Context-aware Location-based Services: A Proposed Framework," *ETRI Journal*, vol. 35, no. 3, pp. 501-511, 2013.

Conferences & Workshops (with Proceedings):

2021.   H. N. Nguyen*, S. Teerakanok, A. Inomata, and T. Uehara, "The Comparison of Word Embedding Techniques in RNNs for Vulnerability Detection," Proc. of ICISSP 2021.

2021   H. V. Nguyen*, S. Teerakanok, A. Inomata, and T. Uehara, "The Proposal of Double Agent Architecture using Actor-Critic Algorithm for Penetration Testing," Proc. of ICISSP 2021.

2020   S. Kosakatani*, T. Uehara, and S. Teerakanok, "Japan's Act on Wiretapping for Criminal Investigation: How the system is implemented and how it should be," Proc. of ICITST 2020, London, UK.

2020   S. Teerakanok*, H. Yasuki, and T. Uehara, "A Practical Solution Against Business Email Compromise (BEC) Attack using Invoice Checksum," Proc. of QRS 2020, Macau, China.

2018   S. Teerakanok* and T. Uehara, "Copy-move Forgery Detection Using GLCM-Based Rotation-Invariant Feature: A Preliminary Research," Proc. of COMPSAC Workshop 2018, Tokyo, Japan

2017   S. Teerakanok* and T. Uehara, "Digital Media Tampering Detection Techniques: An Overview," Proc. of COMPSAC Workshop 2017, Turin, Italy

2016   S. Teerakanok* and T. Uehara, "Enhancement of Image Forgery Detection Techniques using 2-D Cross Product," Proc. of 12th Annual IFIP WG 11.9 Int. Conf. Digital Forensics, New Delhi, India (published in Advances in Digital Forensics XII, G. Peterson and S. Shenoi (Eds.), Springer, Heidelberg, 2016)

2015   S. Teerakanok* and T. Uehara, "Enhancement of Image Tampering Detection Using JPEG's Quantization and Re-interpolation Processes," Proc. of COMPSAC Workshop 2015, Taichung, Taiwan

2011   S. Teerakanok*, C. Vorakulpipat, and S. Kamolphiwong, "An Anonymity-Aware Framework for Protecting User Privacy in Context-Aware Services," Proc. of Thailand-Japan International Academic Conference (TJIA), Tokyo, Japan

2010   S. Teerakanok*, C. Vorakulpipat, and S. Kamolphiwong, "Anonymity preserving framework for location-based information services," Proc. of ACM-MEDES, Bangkok, Thailand

2009   S. Teerakanok* and S. Kamolphiwong, "Accelerating Asymmetric-Key Cryptography using Parallel key Cryptographic Algorithm (PCA)," Proc. of ECTI-CON, Thailand

2008   S. Teerakanok*, S. Kamolphiwong, T. Kamolphiwong, R. Elz, and N. Elz, "Enhancements of Brute Force Attack Prevention using Asymmetric Parallel-key Cryptographic Algorithm," Proc. of JCSSE, Thailand

2008   S. Teerakanok*, S. Kamolphiwong, T. Kamolphiwong, R. Elz, and N. Elz, "Enhancement of Asymmetric Parallel-key Cryptographic Algorithm," Proc. of PEC-6, Hatyai, Thailand