PERSONAL DATA

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PUBLICATIONS SUMMARY

6	7	1	1
International Journal	International. Proceedings	National. Proceedings	Research Grants

Total Publications: 15

EDUCATION

Ph.D. Degree	2019	Doctor of Engineering in Information Media and Environment Sciences (Cryptography), Yokohama National University, Japan
Master Degree	2011	Master of Computer Engineering (M.Eng.), Prince of Songkla University, Songkla, Thailand
Bachelor Degree	2005	Bachelor of Computer Science (B.Sc.), Thaksin University, Songkla, Thailand

RESEARCH INTERESTS

Optical Character Recognition (OCR)
Interactive Media Application
Game Development
General Application

Bluetooth Low Energy (BLE)

Cryptography

Feature Selection

Game Development

High Performance Resource Management (e.g., scheduling)

Image Processing

Indoor Positioning

Interactive Media

RESEARCH PROJECTS

Risk Area Alert System on Mobile for Three Southern Border Provinces in Thailand using Artificial Intelligence.
Alarm system using image processing to prevent a patient with nasogastric tube feeding from removing tube.
Classroom Attendance System using Mesh Bluetooth Low Energy.
A Hybrid Ant Colony Optimization for Multi-Label Correlation-based Feature Selection Method.
Multi-Label Correlation-Based Feature Selection Method using Weighted Multi-Objective Genetic Algorithm.

TEACHING

Undergraduate level
- Operating System
- Computer Programming (C, Python)
- Computer Architecture
- Web Programming
- Object-Oriented Programming
- Game Programming
- Mobile Application (Android, Flutter)

INTERNATIONAL JOURNAL ARTICLES

Suwimol Jungjit, P.Ehkan and **Amonrat Prasitsupparote**, "Enhancing Mobile Risk Area Notifications via Social Media Data: A Case Study of Three Southern Border Provinces in Thailand" International Journal of Applied Computer Technology and Information Systems, 13(1), 2023.

https://search.tci-thailand.org/article.html?b3BlbkFydGljbGUmaWQ9NzU1NzY1

9/2023

Amonrat Prasitsupparote and Pakorn Pasitsuparoad, "Alarm System using Image Processing to Prevent a Patient with Nasogastric Tube Feeding from Removing Tube" International Journal of Advanced Computer Science and Applications(IJACSA), 13(5), 2022. http://dx.doi.org/10.14569/IJACSA.2022.0130590

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Chochiang, Kitsiri & Choothong, Araya & Intarasombat, Prakasit & Masosot, Vachira & **Prasitsupparote, Amonrat**. (2019). Psychological Acceptability Weighted Priority Scheduling: A Case Study of Animal Hospital. Journal of Computer Science. 15. 995-1003. 10.3844/jcssp.2019.995.1003.

🔗 *https://thescipub.com/abstract/10.3844/jcssp.2019.995.1003*

📅 *7/2019*

A. Prasitsupparote, Y. Watanabe, J. Sakamoto, J. Shikata, and T. Matsumoto. Implementation and Analysis of Fully Homomorphic Encryption in Resource-constrained Devices. International Journal of Digital Information and Wireless Communications (IJDIWC), 8(4):288-303, 2019. (DOI:10.17781/P002535)

🔗 *http://dx.doi.org/10.17781/P002535*

📅 *1/2019*

Prasitsupparote, A.; Konno, N.; Shikata, J. Numerical and Non-Asymptotic Analysis of Elias's and Peres's Extractors with Finite Input Sequences. *Entropy* 2018, *20*, 729.

🔗 *https://doi.org/10.3390/e20100729*

📅 *1/2018*

S. Vasupongayya & **A. Prasitsupparote**, 2013, "Extending goal-oriented parallel computer job scheduling policies to heterogeneous systems", Journal of Supercomputing, 65(13), pp.1223-1242. (DOI:10.1007/s11227-013-0879-x)

🔗 *https://doi.org/10.1007/s11227-013-0879-x*

📅 *1/2013*

INTERNATIONAL PROCEEDINGS

A. Prasitsupparote and S. Jungjit, "Classroom Attendance System using Bluetooth Low Energy," *2025 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT & NCON)*, Nan, Thailand, 2025, pp. 328-333, doi: 10.1109/ECTIDAMTNCON64748.2025.10962015.

🔗 *https://ieeexplore.ieee.org/document/10962015*

📅 *4/2025*

S. Jungjit, **A. Prasitsupparote**, S. S. Nathan and T. Rattanakietkhajorn, "Ant Colony Optimization for Multi-Label Correlation-based Feature Selection Method," *2025 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT & NCON)*, Nan, Thailand, 2025, pp. 797-802, doi: 10.1109/ECTIDAMTNCON64748.2025.10961959.

🔗 *https://ieeexplore.ieee.org/document/10961959*

📅 *4/2025*

A. Prasitsupparote, P. Pasitsuparoad and S. Jungjit, "Design and Implementation of a Local Marketplace Application for Food and Beverage Businesses Using 4P's and 4C's Strategies," *2024 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT & NCON)*, Chiang-mai, Thailand, 2024, pp. 318-323, doi: 10.1109/ECTIDAMTNCON60518.2024.10480075.

🔗 *https://ieeexplore.ieee.org/document/10480075*

📅 *4/2024*

A. Prasitsupparote, P. Pasitsuparoad and S. Itsarapongpukdee, "Real-Time Driver Drowsiness Alert System for Product Distribution Businesses in Phuket Using Android Devices," *2023 20th International Joint Conference on Computer Science and Software Engineering (JCSSE)*, Phitsanulok, Thailand, 2023, pp. 351-355, doi: 10.1109/JCSSE58229.2023.10202156.

🔗 *https://ieeexplore.ieee.org/document/10202156*

📅 *8/2023*

A. Prasitsupparote, Y. Watanabe and J. Shikata. Implementation and Analysis of Fully Homomorphic Encryption in Wearable Devices. In The Fourth International Conference on Information Security and Digital Forensics, pages 1-14. The Society of Digital Information and Wireless Communications, 2018.

📅 *1/2018*

Prasitsupparote, A.; Konno, N.; Shikata, J. Numerical Analysis of Elias's and Peres's Deterministic Extractors. In Proceedings of the 51st Annual Conference on Information Sciences and Systems (CISS), Baltimore, MD, USA, 22–24 March 2017.

https://doi.org/10.1109/CISS.2017.7926129

1/2017

A. Prasitsupparote & S. Vasupongayya, 2010, "Impact of multi-partition systems on goal-oriented parallel computer job scheduling policies", Proc. of JCSSE2010, Bangkok, Thailand.

1/2010

NATIONAL PROCEEDINGS

A. Prasitsupparote, N. Konno and J. Shikata, Numerical Analysis of Elias's and Peres's Deterministic Extractors, Proc. of Symposium on
Cryptography and Information Security (SCIS), Naha, Japan, 2017.

1/2017

RESEARCH GRANTS

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