

## PERSONAL DATA



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## PUBLICATIONS SUMMARY

6

International Journal

7

International Proceedings

1

National Proceedings

1

Research Grants

Total Publications: 15

## EDUCATION

<b>Ph.D. Degree</b>	2019	Doctor of Engineering in Information Media and Environment Sciences (Cryptography), Yokohama National University, Japan
<b>Master Degree</b>	2011	Master of Computer Engineering (M.Eng.), Prince of Songkla University, Songkla, Thailand
<b>Bachelor Degree</b>	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*

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Game Development

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

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Image Processing

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Indoor Positioning

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Interactive Media

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## RESEARCH PROJECTS

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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

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Undergraduate level

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

## INTERNATIONAL JOURNAL ARTICLES

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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?b3B1bkFydGJlbGUmaWQ9NzU1NzY1>

📅 9/2023

**Amonrat Prasitsupparote** and Pakorn Pasitsupparoad, “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>

🔗 <http://dx.doi.org/10.14569/IJACSA.2022.0130590>

📅 5/2022

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 (IJDWC)*, 8(4):288-303, 2019. (DOI:[10.17781/P002535](https://doi.org/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. Rattanakitkhajorn, "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. Pasitsupparoad 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. Pasitsupparoad 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 JCSE2010, Bangkok, Thailand.

📅 1/2010

## NATIONAL PROCEEDINGS

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**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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ทุนสนับสนุนวิจัยรายบุคคล  
: 100,000 baht funded by วิทยาลัยการคอมพิวเตอร์, 2022

📅 2022

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COLLEGE OF COMPUTING

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