



Curriculum Vitae

NAME: Sirirat Suwatharachaitiwong	CURRENT ADDRESS: Department of Industrial and Manufacturing Engineering, Faculty of Engineering, Prince of Songkla University, Hat Yai, Songkhla 90112 Tel +66-87391-3477	
POSITION TITLE: -		
E-mail address: sirirat.su@psu.ac.th		

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
National Chiao Tung University, Hsinchu, Republic of China (Taiwan)	Ph.D.	2018-2021	Industrial Engineering and Management
Prince of Songkla University, Songkhla, Thailand	M.Eng.	2013-2016	Industrial and Systems Engineering
Prince of Songkla University, Songkhla, Thailand	B.Eng.	2009-2013	Industrial Engineering

POSITIONS AND EMPLOYMENT

2018 - present	Lecturer Department of Industrial and Manufacturing Engineering, Faculty of Engineering, Prince of Songkla University
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COMMITTEE

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INTERNATIONAL CONSULTANCY

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SCHOLARSHIP AND AWARDS

SCHOLARSHIP:

- Scholarship for the Development of Faculties and Personnel for Higher Education Institutions in the Special Development Zone of the Southern Border Provinces, Ministry of Higher Education, Science, Research and Innovation, Thailand, Year 2018-2021.
- Taiwan-Thailand Elite 600 Scholarship Program, Ministry of Education, Republic of China (Taiwan), Year 2018-2021
- Scholarship for Student Development towards University Lecturers under faculty of Engineering, Faculty of Engineering, Prince of Songkla University, Thailand, Year 2016-2018.

AWARDS:

- Honorary Membership, By the Phi Tau Phi Scholastic Honor Society of the Republic of China (Taiwan), Year 2021

RESEARCH AND PROJECT AWARDS AS PRINCIPAL INVESTIGATOR:

Health Systems Research Institute (HSRI) “Spatial analysis to determine the locations for newly established secondary public hospitals in Bangkok metropolitan area”

Budget: 291,280 Baht and **Duration:** 02/2024-06/2025

Fundamental Fund Year 2024 “ Data-driven diagnostic and prognostic scheme for machinery’s predictive maintenance”

Budget: 755,190 Baht and **Duration:** 10/2023-06/2025

Health Systems Research Institute (HSRI) “Determining the location of primary healthcare facilities in Bangkok metropolitan area”

Budget: 1,650,550 Baht and **Duration:** 03/2023-11/2024

Health Systems Research Institute (HSRI) “Medication and medical supplies service system design for patients receiving medication at type 1 pharmacies in Hat Yai, Songkhla”

Budget: 1,000,450 Baht and **Duration:** 04/2022-10/2023

ORGANIZING INTERNATIONAL WORKSHOPS OR MEETINGS

Date	Topics
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SERVING AS AN INTERNATIONAL REVIEWER:

- Journal of Traffic and Transportation Engineering



POSTGRADUATE ADVISORY:

Master's degree:

1. Miss Pastraporn Thongkan
2. Miss Kanokwan Tangrotjanakhajorn
3. Miss Arachaphon Thairach
4. Miss Simya Samohyusoh
5. Miss Hathairat Poomisirisawat
6. Mr. Sahadsawat Musika
7. Mr. Wirayut Charungsin
8. Mr. Sutthipong Pornchaisuree
9. Mr. Teerapat Wangsaward

COMPUTER SKILLS

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SCOPUS H INDEX

H-index = 2

PUBLICATIONS:

- Suwatcharachaitiwong, S.**, Sirivongpaisal, N., Surasak, T., Jiteurtragool, N., Treeranurat, L., Teeraparbserree, A., Khumprom, P., Pungchompoo, S., and Buakum, D. (2025). Machine Learning-Driven Preventive Maintenance for Fibreboard Production in Industry 4.0. *International Journal of Advanced Computer Science and Applications*, 16(3), 942–950.
- Poomisirisawat, H., **Suwatcharachaitiwong, S.**, and Sirivongpaisal, N. (2024). An integrated approach for designing healthcare facilities with a location-inventory model. *Science and Technology Asia*, 29(2), 53–62.
- Srivongpaisal, N., Kongyoung, W., Suthummanon, S., Penjamras, P., and **Suwatcharachaitiwong, S.** (2023). A study on design and analysis of a school bus project for a municipality in southern Thailand. *Songklanakarin Journal of Science and Technology*, 45 (3), 356–362.
- Suwatcharachaitiwong, S.**, Lin, C. C., Huang, W., and Hung, L. P. (2020). On the medication distribution system for home health care through convenience stores, lockers, and home delivery. *Health Informatics Journal*, 26(4), 3163–3183.
- Lin, C. C., Deng, D. J., **Suwatcharachaitiwong, S.**, and Li, Y. S. (2020). Dynamic weighted fog computing device placement using a bat-inspired algorithm with dynamic local search selection. *Mobile Networks and Applications*, 25(5), 1805-1815.

BOOK CHAPTERS:

- Liperda, R. I., Sirivongpaisal, N., Patrisina, R., and **Suwatcharachaitiwong, S.** (2023). A relief aids distribution model for the pre-cooked meals: the case of the probable disaster during fasting periods in Padang City, Indonesia. In Golinska-Dawson, P., Tsai, K. M., & Werner-Lewandowska, K. (Eds.). *Smart and Sustainable Supply Chain and Logistics—Challenges, Methods and Best Practices: Volume 2*, 243-263. Springer Nature.

SOURCES: