WORAWIT TEPSAN, Ph.D.

Work: Lecturer, International College of Digital Innovation (ICDI)

Chiang Mai University, Chiang Mai, Thailand

Research Interests: Data Analysis, Machine Learning, Artificial Intelligence,

Digital Technology, Applied Mathematics

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Theory*, 93, 49. https://doi.org/10.1007/s00020-021-02665-1

Webpage: https://wtepsan.github.io



2021

PUBLICATIONS

•	Phiphatkunarnon, P., Phanuphak, N., Janamnuaysook, R., Tran, D., Neo, BL., & Tepsan, W. (2025). Comprehensive	2025
	Analysis and Leveraging Online Innovations to Improve HIV and STI Prevention and Treatment Services in Major Cities of	
	Thailand. AIDS Behav. https://doi.org/10.1007/s10461-025-04714-x	
•	Tepsan, W., Sooksatra, S., Lueangwitchajaroen, P., & Watcharapinchai, S. (2024). Adaptive body part ROI with triple	2024
	stream approach for human action recognition. In Proceedings of the 2024 21st International Joint Conference on	
	Computer Science and Software Engineering (JCSSE) (pp. 79-85). https://doi.org/10.1109/JCSSE61278.2024.10613745	
•	Shu, H., Dawod, A.Y., Tepsan, W., Mou, L., & Tang, Z. (2024). Multi-channel Microseismic Signal Classification with	2024
	Convolutional Neural Networks. *IAES International Journal of Artificial Intelligence (IJ-AI)*, 13(1), 1038-1049.	
	https://doi.org/10.11591/ijai.v13.i1.pp1038-1049	
•	Shu, H., Dawod, A.Y., Mu, L., & Tepsan, W. (2023). A Survey of Machine Learning Applications in Microseismic Signal	2023
	Recognition and Classification. In *2023 15th International Conference on Software, Knowledge, Information Management	
	and Applications (SKIMA)*, Kuala Lumpur, Malaysia, pp. 18-23. https://doi.org/10.1109/SKIMA59232.2023.10387351	
•	Ran, X., Zhou, X., Lei, M., Tepsan, W., & Deng, W. (2021). A Novel K-Means Clustering Algorithm with a Noise Algorithm for	2021
	Capturing Urban Hotspots. *Applied Sciences*, 11(23), 11202. https://doi.org/10.3390/app112311202	

ACADEMIC EXPERIENCES

Blecher, D.P., & Tepsan, W. (2021). Real Operator Algebras and Real Positive Maps. *Integral Equations and Operator

Al agent for personalized PrEP (Pre-Exposure Prophylaxis) recommendations	Now
Research on Human Action Recognition Project using Skeleton Database with NECTEC	Now
Training in Super Al Engineer Season Program organized by Artificial Intelligence Association of Thailand	Nov 2021-Aug 2022
(AIAT) [certificate: https://aiat.or.th/cert/files/SuperAIEngineer2021/EN-SuperAI2-019.png]	
Training in Agricultural Data Scientist Program organized by Faculty of Science and Industrial Technology,	July 2022
Prince of Songkla University, Surat Thani Campus	
Co-Researcher: The study of growth poles of the Northern Economic Corridor Project, Thailand	2021
(Grant from the Ministry of Higher Education, Science, Research and Innovation, Thailand)	
PhD Thesis: Real Operator Spaces, Real Operator Algebras and Real Jordan Operator Algebras	2020
Master's degree Thesis: Triangular Mean-Value Functional Equation	2012
Senior Research: Algorithms for Solving Periodic Pentadiagonal Linear System and Inverting Periodic	2010
Pentadiagonal Matrices	
Mini Project: Algorithm for Finding Shortest path in Chiang Mai City	2008

EMPLOYMENT

•	Lecturer at International College of Digital Innovation, Chiang Mai University, Thailand	Dec 2020 - Current
•	Special Expert at International College of Digital Innovation, Chiang Mai University, Thailand	Aug 2020 - Dec2020
•	Teaching Assistance at University of Houston, TX, USA	2015- 2020
•	Tutor (Self Employed) for secondary and high school students in Math, BKK, Thailand	2010- 2013

Scholarship from Junior Scientist Talent Project (JSTP), Thailand

2007

	EDUCATION					
•	PhD in Mathematics from University of Houston, Texas, USA	2015-2020				
•	Studied for PhD in Mathematics but then moved to University of Houston Ohio University, Ohio, USA (did not graduate)	2013-2015				
•	Master of Science in Mathematics from Chulalongkorn University, Bangkok, Thailand	2010-2013				
•	Bachelor of Science in Mathematics (Minor in Computer Science) from Chiang Mai University, Chiang Mai, Thailand	2006-2010				
HONORS AND AWARDS						
•	Abroad fellowship from the Institute for the Promotion of Teaching Science and Technology Project (DPST),	2013-2018				
	Ministry of Education, Thailand					
•	Scholarship from Development and Promotion of Science and Technology Talents Project (DPST),	2003-2013				
	Ministry of Education, Thailand					

SKILLS

Python and JavaScript, with experience in PyTorch, FastAPI, machine learning model training, and building generative AI applications using LLMs, including API integration, backend development, and deployment.