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| **WORAWIT TEPSAN, Ph.D.** | **A picture containing text, person, indoor, wall  Description automatically generated** |
| **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  **Email:** worawit.tepsan@cmu.ac.th **Tel:** +66843644500  **Webpage:** <https://wtepsan.github.io> |

**PUBLICATIONS**

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| * Shu, H., Dawod, A.Y., Tepsan, W., Mou, L., & Tang, Z. (2024). Multi-channel Microseismic Signal Classification with 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 | 2024 |
| * Shu, H., Dawod, A.Y., Mu, L., & Tepsan, W. (2023). A Survey of Machine Learning Applications in Microseismic Signal 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 | 2023 |
| * Ran, X., Zhou, X., Lei, M., Tepsan, W., & Deng, W. (2021). A Novel K-Means Clustering Algorithm with a Noise Algorithm for Capturing Urban Hotspots. \*Applied Sciences\*, 11(23), 11202. https://doi.org/10.3390/app112311202 | 2021 |
| * Blecher, D.P., & Tepsan, W. (2021). Real Operator Algebras and Real Positive Maps. \*Integral Equations and Operator Theory\*, 93, 49. https://doi.org/10.1007/s00020-021-02665-1 | 2021 |

**ACADEMIC EXPERIENCES**

|  |  |
| --- | --- |
| * Research on Human Action Recognition Project using Skeleton Database with NECTEC | Jun 2022-Now |
| * Training in Super AI Engineer Season Program organized by Artificial Intelligence Association of Thailand (AIAT) [certificate: https://aiat.or.th/cert/files/SuperAIEngineer2021/EN-SuperAI2-019.png] | Nov 2021-Aug 2022 |
| * Training in Agricultural Data Scientist Program organized by Faculty of Science and Industrial Technology, Prince of Songkla University, Surat Thani Campus | July 2022 |
| * Co-Researcher: The study of growth poles of the Northern Economic Corridor Project, Thailand  (Grant from the Ministry of Higher Education, Science, Research and Innovation, Thailand) | 2021 |
| * 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 Pentadiagonal Matrices | 2010 |
| * 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 |
| * Teaching assistance in Real Analysis (2010 term 1), Numerical Analysis (2010 term 2),  and Calculus (2012 summer) at Chulalongkorn University, BKK, Thailand | 2010, 2012 |

**EDUCATION**

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| --- | --- |
| * 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**

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| * Abroad fellowship from the Institute for the Promotion of Teaching Science and Technology Project (DPST),  Ministry of Education, Thailand | 2013-2018 |
| * Scholarship from Development and Promotion of Science and Technology Talents Project (DPST),   Ministry of Education, Thailand | 2003-2013 |
| * Scholarship from Junior Scientist Talent Project (JSTP), Thailand | 2007 |

**SKILLS**

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| * Computer Language | Python |