

อ.ดร.เทพชัย ทรัพย์นิธิ
(Dr.Thepchai Supnithi)

1. ตำแหน่งทางวิชาการ อาจารย์ ดร.

2. ประวัติการศึกษา

ระดับ	ชื่อปริญญา (สาขาวิชา)	ชื่อสถาบัน, ประเทศ	ปี พ.ศ. ที่จบ
ปริญญาเอก	วิศวกรรมอิเล็กทรอนิกส์	มหาวิทยาลัยโอซาก้า ญี่ปุ่น	2544
ปริญญาโท	วิศวกรรมอิเล็กทรอนิกส์	มหาวิทยาลัยโอซาก้า ญี่ปุ่น	2540
ปริญญาตรี	คณิตศาสตร์ คณะวิทยาศาสตร์	จุฬาลงกรณ์มหาวิทยาลัย ไทย	2535

3. ผลงานทางวิชาการ

3.1 หนังสือตำรา หรือเอกสารประกอบการสอน

3.2 งานวิจัย

3.3 บทความทางวิชาการ

3.3.1 ตีพิมพ์ในวารสารระดับชาติ

Pachara Suvannadabha, Chawee Busayarat, Thepchai Supnithi. (2565). "The Analytical Tools for Tourism Development through Social Media Data and Spatial Morphological Analysis." **Journal of Environmental Design and Planning**, **21** (3). หน้า 223.

3.3.2 ตีพิมพ์ในวารสารระดับนานาชาติ

Budi, T. , Singchat, W. , Tanglertpaibul, N. , ... Matsuda, Y. , Srikulnath, K. (2024). "Research Note: Possible influence of thermal selection on patterns of HSP70 and HSP90 gene polymorphisms in Thai indigenous and local chicken breeds and red junglefowls". **Poultry Science**, **103** (4). Page 103503.

Jumpathong, S. , Takhom, A. , Boonkwan, P. , ... Aiemleuk, A. , Supnithi, T.. (2024). "Construction of Text Summarization Corpus in Economics Domain and Baseline Models". **Journal of Information and Communication Convergence Engineering**, **22** (1). Page 33–43.

Budi, T. , Singchat, W. , Tanglertpaibul, N. , ... Noinafai, P. & Srikulnath, K. (2023). "Thai Local Chicken Breeds, Chee Fah and Fah Luang, Originated from Chinese Black-Boned Chicken with Introgression of Red Junglefowl and Domestic Chicken Breeds". **Sustainability (Switzerland)**, **15** (8). Page 6878.

Oo, T.M. , Tanprasert, T. , Thu, Y.K. & Supnithi, T. (2023). "Transfer and Triangulation Pivot Translation Approaches for Burmese Dialects". **IEEE Access**, **11** (-). Page 6150–6168. URL: <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10016703>

Kingkaew, C. , Theeramunkong, T. , Supnithi, T. , ... Tanaka, K. & Ikeda, M.. (2023). "A Learning Environment to Promote Awareness of the Experiential Learning Processes with Reflective Writing Support". **Education Sciences**, **13** (1). Page 1-26.

Hlaing, Z.Z. , Thu, Y.K. , Supnithi, T. , Netisopakul, P. (2022). "Improving neural machine translation with POS-tag features for low-resource language pairs". **Heliyon**, **8** (8). Page e10375.

Katchapakirin, K. , Anutariya, C. , Supnithi, T. (2022). "ScratchThAI: A conversation-based learning support framework for computational thinking development". **Education and**

Information Technologies, **27** (6). Page 8533-8560.

URL:

<https://link.springer.com/content/pdf/10.1007/s10639-021-10870-z.pdf?pdf=button&sticky>

- Suvannadabha, P. , Busayarat, C. , Supnithi, T. (2022). "The Analytical Tools for Tourism Development through Social Media Data and Spatial Morphological Analysis". **Nakhara: Journal of Environmental Design and Planning**, **21** (3). Page 1-19.
URL: <https://ph01.tci-thaijo.org/index.php/nakhara/article/view/251174/170159>
- Julrode, P. , Supnithi, T. (2022). "The Development of an Ontology for Information Retrieval about Ethnic Groups in Chiang Mai Province". **International Journal of Advanced Computer Science and Applications**, **13** (10). Page 693–698.
- Phodong, K. , Supnithi, T. , Kongkachandra, R. (2022). "Development of computer-based learning system for learning behavior analytics". **Indonesian Journal of Electrical Engineering and Computer Science**, **25** (1). Page 460–473.
- Kwiecien, K. , Chansanam, W. , Supnithi, T. , Chitiyaphol, J. , Tuamsuk, K. (2021). "Metadata schema for folktales in the mekong river basin". **Informatics**, **8** (4). Page 82.
- Chansanam, W. , Tuamsuk, K. , Kwiecien, K. , Sutthiprapa, K. , Supnithi, T. (2021). "Thai tattoo wisdom's representation of knowledge by ontology". **Informatics**, **8** (1). Page 3.
URL:
<https://com-mendeley-prod-publicsharing-pdfstore.s3.eu-west-1.amazonaws.com/405d-CC-BY-2/10.3390/informatics8010003.pdf?X-Amz-Security-Token=IQoJb3JpZ2luX2VjEz//////////wEaCWV1LXdlc3QtMSJHMEUCIEKV1UREGSDVogSbKks8pXm16qeGrayxhFCX09pr89SgAiEAsWyzGC3UvulP+A>
- Phiboonbanakit, T. , Horanont, T. , Huynh, V.-N. , Supnithi, T.. (2021). "A Hybrid Reinforcement Learning-Based Model for the Vehicle Routing Problem in Transportation Logistics". **IEEE Access**, **9** (-). Page 163325–163347.
URL: <https://ieeexplore.ieee.org/ielx7/6287639/6514899/09631282.pdf?tag=1>
- Takhom, A. , Usanavasin, S. , Supnithi, T. , Boonkwan, P.. (2020). "A collaborative framework supporting ontology development based on agile and scrum model". **IEICE Transactions on Information and Systems**, **12** (E103D). Page 2568–2577.
URL: https://www.jstage.jst.go.jp/article/transinf/E103.D/12/E103.D_2020EDP7041/_pdf
- Takhom, A. , Usanavasin, S. , Supnithi, T. , ... Hoppe, H.U. , Boonkwan, P.. (2020). "Discovering cross-disciplinary concepts in multidisciplinary context through collaborative framework". **International Journal of Knowledge and Systems Science**, **11** (2). Page 1–19.
- Rerkjirattikal, P. , Huynh, V.-N. , Olapiriyakul, S. , Supnithi, T.. (2020). "A goal programming approach to nurse scheduling with individual preference satisfaction". **Mathematical Problems in Engineering**, **0** (-). Page -.
- Chansanam, W. , Tuamsuk, K. , Supnithi, T.. (2020). "Digital content management of Heet Sib Sorng custom for semantic search". **Periodicals of Engineering and Natural Sciences**, **8** (3). Page 1935–1950.
- Rerkjirattikal, P. , Wanwarn, T. , Starita, S. , ... Supnithi, T. , Olapiriyakul, S.. (2020). "Heuristics for noise-safe job-rotation problems considering learning-forgetting and boredom-induced job dissatisfaction effects". **Environmental Engineering and Management Journal**, **19** (8). Page 1325 - 1337.
URL: http://www.eemj.icpm.tuiasi.ro/pdfs/vol19/no8/8_571_Rerkjirattikal_19.pdf
- Methawachananont, A. , Buranarach, M. , Amsuriya, P. , ... Krairaksa, K. , Supnithi, T.. (2020). "Software process capability self-assessment support system based on task and work

product characteristics: A case study of ISO/IEC 29110 standard". **IEICE Transactions on Information and Systems, 0** (-). Page 339–347.

URL: https://www.jstage.jst.go.jp/article/transinf/E103.D/2/E103.D_2018EDP7303/_pdf

3.3.3 ตีพิมพ์ในการประชุมวิชาการระดับชาติ

3.3.4 ตีพิมพ์ในการประชุมวิชาการระดับนานาชาติ (Proceedings)

San, M.E. , Thu, Y.K. , Supnithi, T. , Usanavasin, S. (2022). **Improving Neural Machine Translation for Low-resource English-Myanmar-Thai Language Pairs with SwitchOut Data Augmentation Algorithm**. In International Joint Conference 2022 - 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2022 and 3rd International Conference on Artificial Intelligence and Internet of Things, AIoT 2022, During 5 - 7 November 2022. Artificial Intelligence Association of Thailand (AIAT) Rajamangala University of Technology Lanna (RMUTL), Chiang Mai.

Hlaing, Z.Z. , Thu, Y.K. , Supnithi, T. , Netisopakul, P.. (2022). **Graph-based Dependency Parser Building for Myanmar Language**. In International Joint Conference 2022 - 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2022 and 3rd International Conference on Artificial Intelligence and Internet of Things, AIoT 2022, During 5 - 7 November 2022. Artificial Intelligence Association of Thailand (AIAT) and Rajamangala University of Technology Lanna (RMUTL), Chiang Mai.

Oo, T.M. , Tanprasert, T. , Thu, Y.K. , Supnithi, T.. (2022). **Syllable-to-Syllable and Word-to-Word Transducers for Burmese Dialect Translation**. In International Joint Conference 2022 - 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2022 and 3rd International Conference on Artificial Intelligence and Internet of Things, AIoT 2022, During 5 - 7 November 2022. Association of Thailand (AIAT) and Rajamangala University of Technology Lanna (RMUTL), Chiang Mai.

Jumpathong, S. , Takhom, A. , Boonkwan, P. , ... Kanwatchara, K. , Aiemleuk, A.. (2022). **ThEconSum: an Economics-domained Dataset for Thai Text Summarization and Baseline Models**. In International Joint Conference 2022 - 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2022 and 3rd International Conference on Artificial Intelligence and Internet of Things, AIoT 2022, During 5 - 7 November 2022. Artificial Intelligence Association of Thailand (AIAT) and Rajamangala University of Technology Lanna (RMUTL), Chiang Mai.

Jumpathong, S. , Theeramunkong, T. , Supnithi, T. , Okumura, M.. (2022). **A Performance Analysis of Deep-Learning-Based Thai News Abstractive Summarization: Word Positions and Document Length**. In ICBIR 2022 - 2022 7th International Conference on Business and Industrial Research, Proceedings, During 19-20 May 2022. Thai-Nichi Institute of Technology (TNI) and Artificial Intelligence Association of Thailand (AIAT), Bangkok, Thailand.

Takhom, A. , Utasri, T. , Leenoi, D. , ... Boonkwan, P. , Supnithi, T.. (2021). **Knowledge Graph Enhanced Community Consensus: A Scenario-based Knowledge Construction on Buddha Images**. In 10th International Joint Conference on Knowledge Graphs, IJCKG 2021, During 6-8 December 2021. ACM International Conference Proceeding Series, Virtual, Online.

Hlaing, Z.Z. , Thu, Y.K. , Oo, T.M. , ... Netisopakul, P., Supnithi, T.. (2021). **NECTEC's Participation in WAT-2021**. In WAT 2021 - 8th Workshop on Asian Translation,

Proceedings of the Workshop, During 5-6 August 2021. WAT 2021, Bangkok, Thailand (online).

URL: <https://aclanthology.org/2021.wat-1.pdf>

Jumpathong, S. , Kriengkhet, K. , Boonkwan, P. , Supnithi, T.. (2021). **Anomaly Detection in Lexical Definitions via One-Class Classification Techniques**. In 16th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2021, During 5-6 August 2021. -, Virtual, Bangkok.

Porkaew, P. , Boonkwan, P. , Supnithi, T.. (2021). **HoogBERTa: Multi-task Sequence Labeling using Thai Pretrained Language Representation**. In 16th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2021, During 21 - 23 December 2021. -, Virtual, Online.

Sukprapa, I. , Hung, N.D. , Supnithi, T.. (2021). **Text Summarization using Formal Argumentation**. In 16th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2021, During 21-23 December 2021. -, Virtual, Online.

Machine Translation of LATEX Based Mathematical Equations to Spoken Mathematics. (2020). **Machine Translation of LATEX Based Mathematical Equations to Spoken Mathematics**. In 2020 24th International Computer Science and Engineering Conference, ICSEC 2020, During 3-5 December 2020. -, Bangkok, Thailand.

Hlaing, Z.Z. , Thu, Y.K. , Wai, M.M.N. , Supnithi, T. , Netisopakul, P.. (2020). **Myanmar POS Resource Extension Effects on Automatic Tagging Methods**. In Proceedings - 2020 15th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2020, During 18 - 20 November 2020. Artificial Intelligence Association of Thailand (AIAT), Bangkok, Thailand and Virtual Conference.

Htay, M.M. , Thu, Y.K. , Thant, H.A. , Supnithi, T.. (2020). **Statistical Machine Translation for Myanmar Language Paraphrase Generation**. In Proceedings - 2020 15th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2020, During 18 - 20 November 2020. y Artificial Intelligence Association of Thailand (AIAT), Bangkok, Thailand and Virtual Conference.

Kriengkhet, K. , Saengthongpattana, K. , Porkaew, P. , ... Boonkwan, P. , Supnithi, T.. (2020). **Behavioral Analysis of Transformer Models on Complex Grammatical Structures**. In Proceedings - 2020 15th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2020, During 18 - 20 November 2020. y Artificial Intelligence Association of Thailand (AIAT), Bangkok, Thailand and Virtual Conference .

Kyaw, N.A. , Thu, Y.K. , Nwe, H.M. , ... Min, N.W. , Supnithi, T.. (2020). **A Study of Three Statistical Machine Translation Methods for Myanmar (Burmese) and Shan (Tai Long) Language Pair**. In Proceedings - 2020 15th International Joint Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP 2020, During 18 - 20 November 2020. Artificial Intelligence Association of Thailand (AIAT), Bangkok, Thailand and Virtual Conference .

Hlaing, Z.Z. , Thu, Y.K. , Supnithi, T. , Netisopakul, P.. (2020). **Increasing SMT and NMT Performance by Corpus Extension with Free Online Machine Translation Services**. In Proceedings of the 4th International Conference on Advanced Information Technologies, ICAIT 2020, During 4-5 November 2020. Artificial Intelligence Association of Thailand (AIAT), Yangon, Myanmar.

Zaw, W.T. , Thu, Y.K. , Moe, S.S. , Oo, N.N. , Supnithi, T.. (2020). **Statistical Machine Translation, Ripple down Rules and Hidden Markov Model for Burmese Romanization**. In Proceedings of the 4th International Conference on Advanced Information Technologies, ICAIT 2020, During 4-5 November 2020. -, Yangon, Myanmar.

Oo, T.M. , Thu, Y.K. , Soe, K.M. , Supnithi, T.. (2020). **Neural Machine Translation between Myanmar (Burmese) and Dawei (Tavoyan)**. In 2020 IEEE Conference on Computer Applications, ICCA 2020, During 27-28 February 2020. University of Computer Studies, Yangon and Nagoya Institute of Technology, Yangon, Myanmar.

Htun, H. , Thu, Y.K. , Oo, N.N. , Supnithi, T.. (2020). **A Study of Myanmar (Burmese) to English Machine Translation Performance with Various Myanmar Translated Styles**. In 2020 IEEE Conference on Computer Applications, ICCA 2020, During 27-28 February 2020. University of Computer Studies, Yangon and Nagoya Institute of Technology, Yangon, Myanmar.

Oo, T.M. , Thu, Y.K. , Soe, K.M. , Supnithi, T.. (2020). **Statistical machine translation between myanmar and myeik**. In WCSE 2020: 2020 10th International Workshop on Computer Science and Engineering, During 19 - 21 June 2020. WCSE, Shanghai, China.

Rerkjirattikal, P. , Huynh, V.-N. , Olapiriyakul, S. , Supnithi, T.. (2020). **A framework for a practical nurse scheduling approach: A case of operating room of a hospital in thailand**. In AHFE Virtual Conference on the Human Side of Service Engineering, During 16 - 20 July 2020. -, San Diego.

4. ประสบการณ์การสอนระดับอุดมศึกษา ปี

5. ภาระงานสอน