

Chaklam Silpasuwanchai

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SKILLS

- **Language:** Python, Java, Javascript
- **Tools/Frameworks:** AWS/Azure, PyTorch, HuggingFace, Langchain, SpringBoot, PowerBI
- **Theory:** Natural Language Processing, Machine/Deep Learning, Software Engineering / Architecture, Human-Computer Interaction, Brain-Computer Interfaces

SELECTED PROJECTS

- **Large Language Models:** Develop conversational AI for legal question answering, writing assistant, AI-generated detector, university chatbots, summarization, etc. using large language models.
- **BCI Speller:** Develop a real-time speller using EEG for locked-in patients.
- **Non-Invasive Blood Glucose Measuring Using Raman Spectroscopy:** Utilize Raman Spectroscopy to non-invasively measure blood glucose.
- **Medical Imaging:** Utilize deep learning and language models for medical image analysis and explanations.

WORKING EXPERIENCE

- **Asian Institute of Technology** Pathumthani, Thailand
Assistant Professor, School of Engineering and Technology January 2019 – present
- **Stamford International University** Bangkok, Thailand
Faculty, IT Program, Faculty of Business and Technology March 2017 - December 2019
- **Kasetsart University** Bangkok, Thailand
Visiting Professor, Department of Statistics July 2018 - December 2018
- **Kochi University of Technology** Kochi, Japan
Postdoctoral Researcher April 2015 - February 2017

EDUCATION

- **Kochi University of Technology** Kochi, Japan
Doctor of Engineering in Computer Science; GPA: 4.00 March 2012 – March 2017
- **Asian Institute of Technology** Pathumthani, Thailand
Master of Engineering in Computer Science; GPA: 3.94 August 2009 – May 2011
- **Sirindhorn International Institute of Technology** Pathumthani, Thailand
Bachelor of Science in Computer Science; GPA: 3.82 (First-Class Honours) June 2004 – March 2008

SELECTED 5 PUBLICATIONS

Google Scholar (*h-index, citations*): 11, 561 (Last updated: May 26, 2023)

1. Pananookooln, C., Akarane, J., and Silpasuwanchai, C.. Comparing Selective Masking Methods for Depression Detection in Social Media. *Computational Linguistics*. 2023. (IF: 7.778)
2. Romen, W. and Silpasuwanchai, C.. Neural stochastic differential equations network as uncertainty quantification method for EEG source localization. *Biomed Physical Eng Express*. 2022. (IF: 1.463)
3. Niksirat, KS., Silpasuwanchai, C., Cheng, P. and Ren, X. Attention Regulation Framework: Designing Self-Regulated Mindfulness Technologies. *ACM Transactions on Computer-Human Interaction*. 26, 6, Article 39 (November 2019), 44 pages. DOI: <https://doi.org/10.1145/3359593>. (IF: 2.227)
4. Niksirat, KS., Silpasuwanchai, C. and Ren, X. Sex Differences in relationship between flow proneness in everyday life and gray matter of the dopaminergic system: a cross-sectional study. *Personality and Individual Differences* 141. 2019. (IF: 2.390)
5. Sarcar, S., Jokinen, J., Oulasvirta, A., Wang, Z., Silpasuwanchai, C. and Ren, X. Ability-Based Optimization of Touchscreen Interactions. *IEEE Pervasive Computing* 17(1). 2018. (IF: 3.022)