Chaklam Silpasuwanchai

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Skills

- **Language**: Python, Java
- **Tools/Frameworks**: PyTorch, SpringBoot
- **Theory**: Machine/Deep Learning, Natural Language Processing, Software Engineering, Hypothesis Testing, Data Structures and Algorithms

Selected Projects

- **BCI Speller**: Develop a real-time speller using EEG. Currently collaborating with SCG.
- **Alzheimer Prediction Using fMRI images**: Propose few-shot learning and semantic segmentation for Alzheimer Prediction. Currently collaborating with Siriraj Hospital.
- **Non-Invasive Blood Glucose Measuring Using Raman Spectroscopy**: Utilize Raman Spectroscopy to non-invasively measure blood glucose through fingernails. Currently collaborating with Mahidol University.
- **Emotion/Cognition Recognition**: Develop a real-time emotion/cognition recognizer using EEG. Currently collaborating with Robotic Premium.

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, (Last updated: Nov 2, 2022)

1. 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)*
2. 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)*
3. 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)*
4. Jokinen, J., Sarcar, S., Oulasvirta, A., Silpasuwanchai, C., Wang, Z. and Ren, X. Modelling Learning of New Keyboard Layouts. *Proc. ACM CHI 2017.* (**Best Paper Awards 1%**) *(Acceptance rate: 1000/5000=20%)*
5. Niksirat, KS., Silpasuwanchai, C., Ahmed, M.H.H., Peng, C. and Ren, X. A Framework for Interactive Meditation Using Attention Regulation. *Proc. ACM CHI 2017. (Acceptance rate: 1000/5000=20%)*