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Multi-agent Intelligent Simulation Laboratory (MISL) Research Unit
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Date of Birth October 1, 1978

Current Position Lecturer at Mahasarakham University
Department of Information Technology, Faculty of Informatics
Mahasarakham University, Thailand

Research ID Web of Science: *M-8878-2019*
Scopus: *16176331500*
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Research Interests Handwritten character recognition, Historical document analysis,
Artificial intelligence, Machine learning, Deep learning, Image and video
recognition, Computer vision, Image processing, Image captioning

Experience *2018 – Current*
Director of Ph.D. Program in Information Technology, Department of
Information Technology, Faculty of Informatics, Mahasarakham University

2004 – Current
Lecturer, Faculty of Informatics, Mahasarakham University, Thailand
Teaching in Ph.D., Master, and Bachelor degrees of Information Technology

Editorial Roles

- IEEE Access
- Computer Animation and Virtual Worlds
- SN Computer Science
- Frontiers in Neurorobotics
- Frontiers in Artificial Intelligence (Machine Learning and Artificial Intelligence section)
- ICIC Express Letters, Part B: Applications
- Journal of Computer Science and Informatics Engineering (J-Cosine)
- International Journal of Computer Science, Engineering and Applications (IJCSEA)
- Journal of Applied Informatics and Technology (JIT)

Education

PhD in Artificial Intelligence, 2016

Research Institute: Artificial Intelligence and Cognitive Engineering (ALICE)

University of Groningen, The Netherlands

MSc in Information Technology, 2003

King Mongkut's Institute of Technology North Bangkok, Bangkok, Thailand

BBA in Information Systems, 1999

Faculty of Business Administration, Department of Information System
Rajamangala Institute of Technology, Thailand

Selected Publications

- Choompookham, T., Phiphitphatphaisit, S., Okafor, E., & **Surinta, O.** (2024). Robust Model Selection for Plant Leaf Image Recognition Based on Evolutionary Ant Colony Optimization with Learning Rate Schedule, *IEEE Access*, 12, 132369–132389.
- Phiphitphatphaisit, S., & **Surinta, O.** (2024). Multi-Layer Adaptive Spatial-Temporal Feature Fusion Network for Efficient Food Image Recognition. *Expert Systems with Applications*, 255, Part D, Article 124834
- Sangkatip, W., Chomphuwiset, P., Bunluewong, K., Mekruksavanich, S., Okafor, E., & **Surinta, O.** (2024). Improving Neural Network-Based Multi-Label Classification with Pattern Loss Penalties. *IEEE Access*, 12, 52237–52248.
- Choompookham, T., Okafor, E., & **Surinta, O.** (2024). Mulberry Leaf Dataset for Image Classification Task. *Data in Brief*, 54, 110281.
- Boonsirisumpun, N., Okafor, E., and **Surinta, O.** (2024). Vehicle Image Datasets for Image Classification. *Data in Brief*, 53, 110133.
- Gonwirat, S., **Surinta, O.** and Pawara, P. (2022). Fusion Convolutional Recurrent Neural Networks for Thai and English Video Subtitle Recognition, *ICIC Express Letters*, 16(12), 1331-1339.
- Boonsirisumpun, N. and **Surinta, O.** (2022). Ensemble Multiple CNNs Methods with partial Training Set for Vehicle Image Classification. *Science, Engineering and Health Studies*, 16, 22020001.
- Gonwirat, S. and **Surinta, O.** (2022). DeblurGAN-CNN: Effective Image Denoising and Recognition for Noisy Handwritten Characters. *IEEE Access*, 10, 90133-90148.
- Noppitak, S. and **Surinta, O.** (2022). dropCyclic: Snapshot Ensemble Convolutional Neural Network Based on a New Learning Rate Schedule for Land Use Classification, *IEEE Access*, 10, 60725-60737.
- Lata, S., Phiphitphatphaisit, S., Gonwirat, S. and **Surinta, O.** (2022). Dynamic Fingerspelling Recognition from Video Using Deep Learning Approach: From Detection to Recognition, *ICIC Express Letters, Part B: Applications*, 13(9), 949-957.
- Gonwirat, S. and **Surinta, O.** (2022). CycleAugment: Efficient Data Augmentation Strategy for Handwritten Text Recognition in Historical Document Images, *Engineering and Applied Science Research*, 49(4), 505-520.
- Enkvetchakul, P. and **Surinta, O.** (2022). Effective Data Augmentation and Training Techniques for Improving Deep Learning in Plant Leaf Disease Recognition. *Applied Science and Engineering Progress*, 15(3), 1-12.

- Singkhornart, T. and **Surinta, O.** (2022). Multi-Language Video Subtitle Recognition with Convolutional Neural Network and Long Short-Term Memory Networks, *ICIC Express Letters*, 16(6), 647-655.
- Enkvetchakul, P. and **Surinta, O.** (2022). Stacking Ensemble of Lightweight Convolutional Neural Networks for Plant Leaf Disease Recognition, *ICIC Express Letters*, 16(5), 521-528.
- Saichua, P. and **Surinta, O.** (2022). Comparative Study between Ensemble and Fusion Convolutional Neural Networks for Diabetic Retinopathy Classification. *ICIC Express Letters*, 16(4), 401-408.
- Boonsirisumpun, N. and **Surinta, O.** (2022). Fast and Accurate Deep Learning Architecture on Vehicle Type Recognition. *Current Applied Science and Technology*, 22(1) (January-February 2022), 1-16.
- Gonwirat, S. and **Surinta, O.** (2021). Optimal Weighted Parameters of Ensemble CNNs Based on a Differential Evolution Algorithm for Enhancing Pornographic Image Classification, *Engineering and Applied Science Research*, 48(5), 560-569.
- Phiphitphatphaisit, S. and **Surinta, O.** (2021). Deep Feature Extraction Technique Based on Conv1D and LSTM Network for Food Image Recognition, *Engineering and Applied Science Research*, 48(5), 581-592.
- Chompookham, T. and **Surinta, O.** (2021). Ensemble Methods with Deep Convolutional Neural Networks for Plant Leaf Recognition. *ICIC Express Letters*, 15(6), 553-565.
- Noppitak, S. and **Surinta, O.** (2021). Ensemble Convolutional Network Architectures for Land Use Classification in Economic Crops Aerial Images. *ICIC Express Letters*, 15(6), 531-543.