



KITTICHAJ Wantanajittikul

DEPARTMENT OF RADIOLOGIC TECHNOLOGY



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Education

- 2000-2004 Chiang Mai University
Ph.D. in Biomedical Engineering
Dissertation: "Fully Automatic Cardiac T2* Relaxation Time Estimation Using Patch-Based Clustering"
- 2004-2008 Chiang Mai University
M.Eng. in Electrical Engineering
- 2000- Chiang Mai University

Research areas of interest

- Signal and image processing
- Medical signal and image analysis
- Machine learning
- Deep learning

Research theme

- Lesion detection and segmentation in medical images using deep learning
- Software development for quality control of CT and MRI
- Gait Analysis in Elephant using Inertial Measurement Unit (IMU) sensor
- Fall risk assessment using Inertial Measurement Unit (IMU) sensor

Publication

- 2025 S. Kongsawasdi, K. Wantanajittikul, T. Jivacate, W. Langkaphin, S. Chansitthiwet, P. Sombutputorn, et al., "Improving Mobility: A Case Report on the Rehabilitation of a Gait Anomaly in an Asian Elephant at a Thai Elephant Conservation Center," *Animals*. 2025 Jan;15(11):1632.
- S. Thovuttikul, C. Isradisaikul, S. Peansukmanee, S. Kongsawasdi, K. Wantanajittikul. "Virtual Reality Meets Social Media: Transforming Skill Acquisition in Physiotherapy, Veterinary Surgery, and Driver Training," *Social Computing and Social Media*. Cham: Springer Nature Switzerland; 2025. p. 290-302.
- S. Kongsawasdi, P. Bunjan, M. Wongjak, W. Saenmueng, K. Wantanajittikul. "Evaluating Postural Sway in the Elderly Using Inertial Measurement Units: A Study on Center of Mass Measurements via Accelerometers and Gyroscopes," *J Clin Med Res*. 2025 Apr;17(4):200-7.
- S. Khammesri, K. Wantanajittikul, K. Namwongprom, N. Kittisirikul, P. Ueangpaibool, C. Thitaram, et al., "Evaluating Gait Abnormalities in Asian Elephants Using Inertial Measurement Unit-Based Vertical Movement Symmetry Analysis: A Pilot Study," *Veterinary Sciences*. 2025 Feb;12(2):154.
- 2024 N. Hirata, P. Pudhieng, S. Sena, S. Torn-asa, W Panyarak, K. Klanliang, K. Wantanajittikul, "Development of Periapical Index Score Classification System in Periapical Radiographs Using Deep Learning," *J Digit Imaging Inform med [Internet]*. 2024 Dec 13.
- T. Pornvoranant, W. Panyarak, K. Wantanajittikul, A. Charuakkra, P. Rungsiyakull, P. Chajjareenont, "A Comparison of Deep Learning vs. Dental Implantologists in Cone-Beam Computed Tomography-Based Bone Quality Classification," *J Digit Imaging Inform med [Internet]*. 2024 Nov 18.
- W. Panyarak, W. Suttapak, P. Mahasantipiya, A. Charuakkra, N. Boonsong, K. Wantanajittikul, et al., "CrossViT with ECAP: Enhanced deep learning for jaw lesion classification," *International Journal of Medical Informatics*. 2025 Jan.
- P. Rattanachet, K. Wantanajittikul, W. Panyarak, P. Palee, P. Mahakkanukrauh, P. Rattanachet, et al., "Age Prediction Using Pixel Value Sum from Radiographic Proximal Femur in a Thai Population," *International Journal of Morphology*. 2024 Aug;42(4):1011-9.