

Curriculum Vitae



Family name : VICHIANIN วิเชียรอินทร์

First name : Yudthaphon ยุทธพล

Academic position : Associate Professor รศ.ดร.
Department of Radiological Technology,
Faculty of Medical Technology, Mahidol University.

Award : Recipient of the Royal Thai Government Scholarship (2000-2007)

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Degrees:

Degree achievement	Institute	Year
Doctor of Philosophy (Ph.D. in Communication and Information Sciences)	University of Hawai'i at Manoa, Hawai'i. U.S.A.	2002- 2007 (2545-2550)
Master of Science (MSIS in Information System with distinction)	Hawaii Pacific University, Hawai'i. U.S.A.	2000-2002 (2543-2545)
Master of Science (M.Sc. in Information Management with distinction)	Mahidol University, Bangkok, Thailand.	1996-2000 (2539-2543)
Bachelor of Science (B.Sc. in Radiation Technology)	Mahidol University, Bangkok, Thailand.	1992-1995 (2534-2538)

Professional experiences:

2022-present: Head, Department of Radiological Technology, Faculty of Medical Technology, Mahidol University, Thailand.

2021-present: Associate Professor, Department of Radiological Technology, Faculty of Medical Technology, Mahidol University, Thailand.

2011-2020: Assistant Professor, Department of Radiological Technology, Faculty of Medical Technology, Mahidol University, Thailand.

2007-2010: Lecturer, Department of Radiological Technology, Faculty of Medical Technology, Mahidol University, Thailand.

2004 –2007: Multimedia Editor for Thai language program, The Department of Indo-Pacific (IP) Languages and Literatures, University of Hawai'i, U.S.A.

2004- 2005: Technical Support and Multimedia Editor, Khmer Language Program, The Department of Indo-Pacific (IP) Languages and Literatures, University of Hawai'i, U.S.A.

2004: Co-developer of a digital version of an AUA's textbook for learning Thai used in online Thai101 course at University of Hawaii (with copyright permission from the AUA, Thailand)

Publications:

1. Muangpaisan W, Ngamsombat C, **Vichianin Y**, Dumrikarnlert C, Seeboonruang A, Pooliam J, et al. Brain volume metric analysis is correlated with aging changes and sex differences in Thai older adults. *Dementia and Geriatric Cognitive Disorders Extra*. 2025 Jan 27;1–16.
2. Wisetwongsa P, Piyaselakul S, **Vichianin Y**, Chiewwit P, Rattanabannakit C, Hunnangkul S, Wongkom N, Dujada P and Senanarong V*. A Comparison of the Brain Parameters of Thais with Normal Cognition, Mild Cognitive Impairment, and Dementia. *Brain Sci*. 2025, 15(2), 105;
3. Pamarapa C, Keerativittayayut R, Ekjeen T, Shoombuatong W, **Vichianin Y***. Multimodal SVM Classification for Early-stage Alzheimer's Disease Diagnosis Using T1-weighted MR and F-18 FDG PET Imaging. *Journal of Medical Imaging and Radiation Sciences*. DOI: 10.1016/j.jmir.2024.101539
4. **Vichianin Y**, Imsap C, Niempinijakul T, Semprawat P, Jitsongserm T, Maklad S, et al. Comparison of pre-trained deep learning model classification performance of COVID-19 and normal chest X-ray images. *Journal of Medical Imaging and Radiation Sciences*. 2022;53(4).
5. Senanarong V, Piyaamornpan N, Chotinaiwattarakul W, Chiewwit P, Rattanabannakit C, Wongkom N, Dujada, P. and **Vichianin, Y**. Associations among clinical characteristics of sleep quality, cognitive performance, and brain architecture in Thai dementia spectrum disorders. *Alzheimer's & Dementia*. 2021;17(S6).
6. Ngamsombat C, Ningunha K, Muangpaisan W, Thientunyakit T, Charnchaowanish P, **Vichianin Y**, Chawalparit O. Evaluation of Early Cerebral Atrophy in Mild Cognitive Impairment with Positive Amyloid PET using MR Volumetric Measurement. *J Med Assoc Thai* 2021; 104 (6):969-74
7. **Vichianin Y**, Khummongkol A, Chiewwit P, Raksthaput A, Chaichanettee S, Aonkaew N et al. Accuracy of Support-Vector Machines for Diagnosis of Alzheimer's Disease, Using Volume of Brain Obtained by Structural MRI at Siriraj Hospital. *Frontiers in Neurology*. 2021;12.
8. Thientunyakit T, Sethanandha C, Muangpaisan W, Chawalparit O, Arunrungvichian K, Siriprapa T et al. Relationships between amyloid levels, glucose metabolism, morphologic changes in the brain and clinical status of patients with Alzheimer's disease. *Annals of Nuclear Medicine*. 2020;34(5):337-348.
9. Mutahari SM, Ekjeen T, **Vichianin Y**, Tantiwetchayanon K, and Alzheimer's Disease Neuroimaging Initiative. Computer-aided diagnosis of Alzheimer's disease using t-sum feature obtained from brain F-18 FDG PET image utilizing support vector machine. *IJABME*. 2020; 13(2): 1-8.
10. Tantiwetchayanon K, **Vichianin Y**, Ekjeen T, Srungboonmee K, Ngamsombat C, Chawalparit O. Comparison of the WEKA and SVM-light Based on Support Vector Machine in Classifying

- Alzheimer's Disease using Structural Features from Brain MR imaging. Journal of Physics: Conference Series. 2019; 1248:012003.
11. **Vichianin Y**, Kareesaw A, Chawalparit O, Ohki M. Optimizing Fractional Intensity Threshold for FSLBrain Extraction Tool (BET) and Comparing with FreeSurfer on 3D T1W MR Images. Siriraj Med J 2018; 70:391-396.
 12. Ngamsombat C, Zhang Z, Guo H, Lerdthusnee K, Witthiwej T, Muangpaisan W, Wongsripuemtet J, et al. Comparison of Microfiber Alteration of Corticospinal Tract in Normal Pressure Hydrocephalus Patients and Normal Controlled Subjects by Diffusion Tensor Imaging. J Med Assoc Thai 2017;100:41.
 13. Wongsripuemtet J, Wongfukiat O, **Vichianin Y**, Ngamsombat C, Witthiwej T, Sitthinamsuwan B, Aurboonyawat T, et al. Feasibility Study of Language Lateralization using Thai Version of Language Paradigm for Functional MRI in Clinical Service. J Med Assoc Thai 2016;99:1344.
 14. Jongkreangkrai C, **Vichianin Y**, Tocharoenchai C, Arimura H. Computer-aided classification of Alzheimer's disease based on support vector machine with combination of cerebral image features in MRI. Journal of Physics: Conference Series 2016;(694):doi:10.1088/1742-6596/694/1/012036
 15. Chawalparit O, Manochiopinig S, **Vichianin Y**, Wongsripuemtet J, Siwasattayanon P, Ngamsombat C, Chawalparit P, Charnchaowanish P, Pornpunyawuth P, Chaovongphanit S, Wongsawat Y, Ruangvaravate N. Siriraj Thai Language Paradigm for Functional MRI: A Pilot Study in Normal Volunteers. Siriraj Med J 2015; 67:181-186
 16. ธนธร จงเจริญกุล, วิวัฒน์ โอวศิริกุล, ทิพนิมล มีชัย, วรณัฐ เอี่ยมปา, อำพลพรต วงศ์เปี่ยม และ **ยุทธพล วิเชียรอินทร์** ทักษะติดต่อด้านคอมพิวเตอร์ช่วยสอนการจัดทำถ่ายภาพเอกซเรย์และภาพถ่ายสำหรับเอกซเรย์ทำประจำ. พัฒนาเทคนิคศึกษา 2014; 26 (91): 64-69
 17. **ยุทธพล วิเชียรอินทร์**, ธนธร จงเจริญกุล. กรณีศึกษา: การพัฒนาโปรแกรมประยุกต์ ระบบลงทะเบียนผู้รับบริการ เอกซเรย์เคลื่อนที่ โครงการตรวจสุขภาพชุมชน คณะเทคนิคการแพทย์ มหาวิทยาลัยมหิดล. Thai J Radiol Tech 2008; 33(1): 1-11.
 18. **Vichianin Y**. A simple solution for converting none-DICOM ultrasound images to DICOM compatible files: How I do it. Thai J Radiol Tech 2007; 32(1): 15-20.
 19. Mongkolsuk M, **Vichianin Y**, Meechai T. The Evaluation of Collimator Alignment of Diagnostic X-ray tube using Computed Radiography System. Thai J Radiol Tech 2007; 32(1): 21-26.