Curriculum Vitae

Personal Information		
Title	Professor	
Name	Hsiao-Wen Chung	
Degree	Ph.D.	
Country	Taiwan	
Affiliation	National Taiwan University	

Educational Background

1983.9~1987.6: B.S., Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
1989.9~1994.12: Ph.D., Department of Bioengineering, University of Pennsylvania, Philadelphia, PA, U.S.A.

Professional Career

1995.1~1995.8: Post-doctoral research fellow, Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan
1995.8~1996.7: Lecturer, Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
1996.8~2004.7: Associate Professor, Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
2004.8~2019.7: Professor, Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
2019.8~present: Lifetime Distinguished Professor, Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
2004.8~present: Adjunct Professor, Department of Radiology, Tri-Service General Hospital, Taipei, Taiwan
2011.8~present: Adjunct Professor, Department of Radiology, Taipei Medical University Hospital, Taipei, Taiwan

Research Field

Magnetic resonance imaging physics, including pulse sequence design, image reconstruction, data analysis, and clinical applications.

Main Scientific Publications

1. Pan NY, Huang TY, Yu JJ, Peng HH, Chuang TC, Lin YR, Chung HW, Wu MT. Virtual MOLLI target: generative adversarial networks towards improved motion correction in MRI myocardial T1 mapping. Journal of Magnetic Resonance Imaging 2025;61:209-219.
2. Wang HC, Chen CS, Kuo CC, Huang TY, Chuang TC, Lin YR, Chung HW, Alzheimer's Disease Neuroimaging Initiative. Comparative assessment of established and deep learning-based segmentation methods for hippocampal volume estimation in brain magnetic resonance imaging analysis. NMR in Biomedicine 2024;37:e5169.
3. Li YH, Lin SC, Chung HW, Chang CC, Peng HH, Huang TY, Shen WC, Tsai CH, Lo YC, Lee TY, Juan CH, Juan CE, Chang HC, Liu YJ, Juan CJ. The role of input imaging combination and ADC threshold on segmentation of acute ischemic stroke lesion using U-Net. European Radiology 2023;33:6157-6167.
4. Chang HC, Chen G, Chung HW, Wu PY, Liang L, Juan CJ, Liu YJ, Tse MLD, Chan A, Zhang S, Chiu KWH. Multi-shot diffusion-weighted imaging with multiplexed sensitivity encoding (MUSE) in the assessment of active inflammation in Crohn's disease. Journal of Magnetic Resonance Imaging 2022;55:126-137.
5. Chang YJ, Huang TY, Liu YJ, Chung HW, Juan CJ. Classification of parotid gland tumors by using multimodal magnetic resonance imaging and deep learning. NMR in Biomedicine 2021;34:e4408.
6. Cheng CM, Chou CC, Yeh TC, Chung HW. Measurements of venous oxygen saturation in the superior sagittal sinus using conventional three-dimensional multiple gradient-echo MR imaging: effects of flow velocity and acceleration. Magnetic

Resonance in Medicine 2021;85:995-1003.
7. Liu YJ, Lee YH, Chang HC, Chung HW, Wang CW, Juan CH, Chu YH, Lee JC, Juan CJ. Imaging quality of PROPELLER diffusion-weighted MR imaging and its diagnostic performance in distinguishing pleomorphic adenomas from Warthin tumors of the parotid gland. NMR in Biomedicine 2020;33:e4282.
8. Tsai PH, Chen YC, Chiang SW, Huang TY, Chou MC, Liu HS, Chung HW, Peng GS, Ma HI, Kao HW, Chen CY. Changes in sensorimotor-related thalamic diffusion properties and cerebrospinal fluid hydrodynamics predict gait responses to tap test in idiopathic normal-pressure hydrocephalus. European Radiology 2018;28:4504-4513.
9. Kuo YS, Yang SC, Chung HW, Wu WC. Toward quantitative fast diffusion kurtosis imaging with b-values chosen in consideration of signal-to-noise ratio and model fidelity. Medical Physics 2018;45:605-612.
10. Chu ML, Chang HC, Chung HW, Bashir MR, Cai J, Zhang L, Sun D, Chen NK. Free-breathing abdominal MRI improved by repeated k-t-subsampling and artifact-minimization (ReKAM). Medical Physics 2018;45:178-190 (MOST 104-2221-E- 002-209-MY3).