

Sohyun Kim

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ABOUT ME

I am a PhD student conducting research in the Vision and Machine Learning lab. My research focuses on medical AI and explainable AI. I am interested in research for medical image analysis (Segmentation, Deformable Image Registration) and robust AI (Adversarial Defense). Additionally, I am interested in developing OpenGL-based 3D graphics to improve visualization techniques and support medical image analysis in clinical applications.

EDUCATION

Integrated Ph.D. Student 2023 - Present

University of Soongsil, Seoul, Republic of Korea

- ✓ Computer Science and Engineering

Bachelor Studies 2019 - 2023

University of Soongsil, Seoul, Republic of Korea

- ✓ Computer Science and Engineering

PUBLICATIONS

International Journal

- ✓ **UC-Hybrid: Uncertainty - based contrastive learning on hybrid network for medical image segmentation**
Sohyun Kim, Minyoun Chung
Computer Methods and Programs in Biomedicine 255 (2024) [DOI].

ACADEMIC INTERESTS

Medical AI

- ✓ Multi Organ Segmentation
- ✓ Registration (DIR; Deformable Image Registration)
- ✓ Lesion Detection, Anomaly Detection

Explainable AI

- ✓ Evidential Learning
- ✓ Robust AI (Adversarial Defense)