

GEUNHYEOK YU

Ph.D. Student

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Yongin-si, Republic of Korea

SUMMARY

Talented student with industrious and systematic approach to learning information. Open and clear worker with disciplined execution and methodical nature. Extensive knowledge of research and software skills.

RESEARCH INTERESTS

- Computer Vision
- Artificial Intelligence
- Representation Learning
- Model Compression

EDUCATION

Mar. 2024 – Present	Kyung Hee University, Republic of Korea Ph.D. course in Department of Software Convergence Artificial Intelligence and Robotics Lab. supervised by Prof. Hyoseok Hwang	Yongin-si, Korea
Mar. 2024 – Feb. 2022	Kyung Hee University, Republic of Korea M.S. course in Department of Software Convergence Artificial Intelligence and Robotics Lab. supervised by Prof. Hyoseok Hwang	Yongin-si, Korea
Mar. 2018 – Feb. 2022	Gachon University, Republic of Korea B.S. course in Department of Software	Seongnam-si, Korea

EXPERIENCE

Feb. 2022 – Present	Ph.D./M.S. Student Researcher • "Decision-BADGE: Decision-based Adversarial Batch Attack with Directional Gradient Estimation" • "Real-Time Automated Solubility Screening Method Using Deep Neural Networks with Handcrafted Features" • "Generative Perturbation Network for Universal Adversarial Attacks on Brain-Computer Interfaces" • "A2XP: Towards Private Domain Generalization" PyTorch / Deep Learning / Probabilistics / Linear Algebra	AIRLab, Kyung Hee University
Jul. 2020 – Aug. 2020	Internship Student • CAD Development Team • 3D Model Visualization C++ / VTK / Linear Algebra / Geometry	DDS, Seoul, Korea

PROJECTS

Mar. 2022 – Jul. 2022	Development of solubility measurement technology using computer vision Hubidity Detection, Machine Learning, Computer Vision	(주) 디스메카, SAIT Corp.
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PUBLICATIONS

INTERNATIONAL JOURNAL

Nov. 2023	Generative Perturbation Network for Universal Adversarial Attacks on Brain-Computer Interfaces IEEE Journal of Biomedical and Health Informatics, Volume: 27, Issue: 11, 2023, [IF:7.76] Jiyoung Jung, HeeJoon Moon, Geunhyeok Yu , Hyoseok Hwang <i>Index Term – Adversarial attack, brain computer interfaces, EEG classification, universal adversarial perturbation</i>	
Jun. 2023	Real-Time Automated Solubility Screening Method Using Deep Neural Networks with Handcrafted Features MDPI Sensors 2023 23(12) [IF:3.847] Minwoo Jeon, Geunhyeok Yu , Hyundo Choi, Gahee Kim, Hyoseok Hwang <i>Keywords – Solubility measurement, automated solubility screening, handcrafted feature, deep neural networks, support vector machine</i>	

INTERNATIONAL CONFERENCE

Jun. 2024	A2XP: Towards Private Domain Generalization IEEE/CVF CVPR, 2024 Geunhyeok Yu , Hyoseok Hwang	
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SKILLS

Software

- OpenCV
- PyTorch
- Git

Research

- Scientific Methodology
- Analytic Thinking
- Teamwork and Collaboration

LANGUAGES

English ● ● ● ● ●

Korean native