Junuk Jung

KOREATECH

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RESEARCH INTERESTS

- Multi-Modal Object Detection & Segmentation
- Metric Learning
- Face Recognition
- Image Retrieval

EXPERIENCES

ARBEON (알비언)   *Dec. 2022 - present*
Unseen Object Detection 모델 개발

EDUCATION

M.S. in Computer Science, **KOREATECH**,   *Sep. 2020 - Aug. 2022*
Advisor: Prof. Heung-Seon Oh

B.S. in Computer Science, **KOREATECH**,   *Mar. 2013 - Aug. 2020*

PUBLICATIONS

Jun-uk Jung, Seanhoon Lee., Heung-Seon Oh., Yongjun Park., Joo-Chan Park., Sung-bin Son. (2022). Unified Negative Pair Generation toward Well-discriminative Feature Space for Face Recognition. In British Machine Vision Conference (BMVC).

Sung-bin Son., Hyun-Jae Kim., **Jun-uk Jung**., Heung-Seon Oh. (2022). "Deep Learning-based MLCC Stacked Alignment Automatic Inspection System Using Independent Models.", Journal of Institute of Control, Robotics and Systems (in Korean).

Jun-uk Jung., Hyun-Jae Kim., Sung-bin Son., Heung-Seon Oh. (2022). "MLCC Lamination Alignment Inspection System using Deep Neural Network.", Journal of Institute of Control, Robotics and Systems (in Korean).

Seanhoon Lee, **Jun-uk Jung**., Heung-Seon Oh., Seonho Kim. (2022). "A study on the development of a system for monitoring quarantine rules using vision technology," Journal of the Korea Academia-Industrial cooperation Society (in Korean).

Jun-uk Jung, Sung-bin Son., Joo-Chan Park., Yongjun Park., Seanhoon Lee., Heung-Seon Oh. (2021). MixFace: Improving Face Verification Focusing on Fine-grained Conditions. arXiv preprint arXiv:2111.01717.

Joo-Chan Park., Sung-bin Son., Seanhoon Lee., **Jun-uk Jung**, Yongjun Park., Heung-Seon Oh. "Deep Ensemble based Object Detection from Aerial Images," Journal of Institute of Control, Robotics and Systems (in Korean), vol.27, no.12, pp.944-952, 2021.

Sung-bin Son., Seanhoon Lee., Joo-Chan Park., **Jun-uk Jung**, Heung-Seon Oh. "Patch Image Merge System using Deep Neural Network for Chip Defect Analysis," Journal of Institute of Control, Robotics and Systems (in Korean), vol.27, no.8, pp.528-534, 2021.

Joo-Chan Park., Seanhoon Lee., **Jun-uk Jung**, Sung-bin Son., Heung-Seon Oh, Yu-chul Jung, "Uncertainty-based Deep Object Detection from Aerial Images," Journal of Institute of Control,

Robotics and Systems (in Korean), vol.26, no.11, pp.891-899, 2020

Sung-Bin Son, **Jun-Uk Jung**, Heung-Seon Oh, Yu-chul Jung. DeepMask: Face Masking System using Deep Neural Networks on Real-time Streaming.Journal of Institute of Control, Robotics and Systems (in Korean), 26(6), 423-428, 2020.

PROJECT	**자가학습 기반 실시간 MLCC 적층 자동 검사 통합시스템 개발** *(Object Detection, Segmentation)* *ICT 바우처 지원 사업, 과학기술정보통신부(ICT), (주)삼성기전*	*Dec. 2021. - Aug.2022*
	다중 CCTV를 이용한 감염병 대응 시스템 개발 한국과학기술연구원 *(KIST)*	*Apr. 2021. -Dec. 2021*
	지능형 CCTV 시스템을 위한 인공지능 기반의 이벤트 탐지기 개발 *TNM Tech*	*Sep. 2020. -Jan. 2021*
	국가혁신클러스터사업 (R&D) 한국인 얼굴인식 기술 개발) *라온솔루션*	*Jan. 2019. - Dec. 2020*

HONORS & AWARDS	아리랑 위성영상 AI 객체 검출 경진대회 2위, 한국항공우주연구원장상 수상, Korea	*2020*
	위성 이미지 객체 검출 경진대회 1위, 방위사업청장상 수상, Korea	*2020*

CHALLENGE	코드 유사성 판단 AI 경진대회 (29위), DACON/AI프렌즈	*2021*
	Visual Question Answering Challenge, AWS	*2021*
	아리랑 위성영상 AI 객체 검출 (2위), 한국항공우주연구원	*2020*
	2020 AI Grand Challenge Track-1 (행동인지, 6위), 과학기술정보통신	*2020*
	위성 이미지 객체 검출 (1위), 국방과학기술연구원	*2020*
	2019 AI Grand Challenge Track-1 (상황인지, 17위), 과학기술정보통신	*2019*

PATENTS	얼굴 인식에 기반한 실시간 얼굴 마스킹 시스템 및 이를 이용한 실시간 얼굴 마스킹 방법 (10-2277929-0000)
	이미지 객체 검출 방법 (10-2436197-0000)

COMPUTER SKILLS	**Programming**: Python, Pytorch, Android, Swift, C/C++, Java **Etc**: Ubuntu, Git. GitHub/GitLab, Jira, Notion, Slack