

Oleksandr [Alex] Bailo

COMPUTER VISION · DEEP LEARNING

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Summary

Programming Languages: Python (proficient) • C/C++ (proficient) • Java (prior experience) • MatLab (prior experience)
Technical skills: Pytorch • Caffe • Tensorflow • OpenCV • LaTeX • Git
Languages: Fluent in English, Russian and Ukrainian; Advanced level in Korean.

Experience

Qualcomm	MACHINE LEARNING RESEARCHER (SENIOR), XR TEAM	<i>Amsterdam, Netherlands</i>
• Researching and developing mobile AR and VR enabling technology		<i>Jul. 2021 - present</i>
AnyVision	DEEP LEARNING RESEARCHER AND SCRUM MASTER	<i>Belfast, UK</i>
• Body detection and model evaluation tools to understand application scenario • Body re-identification • Replay face spoofing attack detection		<i>Apr. 2020 - Jun. 2021</i>
Kakao Brain	DEEP LEARNING RESEARCH ENGINEER	<i>Seongnam, S.Korea</i>
• Human pose estimation and action similarity research for fitness tracking		<i>Nov. 2019 - Mar. 2020</i>
Noul Inc.	COMPUTER VISION & DEEP LEARNING RESEARCH ENGINEER	<i>Yongin, S.Korea</i>
• Microscopy diagnosis of malaria. Development from training to edge product integration • Created hematology analyzer with detection, segmentation, and classification capabilities • Research on GANs for medical data augmentation resulting in publication		<i>Aug. 2017 - Oct. 2019</i>
Healthrian	SOFTWARE ENGINEER, INTERN	<i>Daejeon, S.Korea</i>
• Developed an Android application for ECG medical device		<i>Jun. 2015 - Aug. 2015</i>
My Design Lab • KAIST	UNDERGRADUATE RESEARCHER	<i>Daejeon, S.Korea</i>
• Developed a drone to implement wall painting works for skyscrapers		<i>Dec. 2014 - Jun. 2015</i>

Education

Korea Advanced Institute of Science and Technology (KAIST)	<i>Daejeon, S.Korea</i>
M.S. IN ELECTRICAL ENGINEERING. ROBOTICS AND COMPUTER VISION [LAB.] SUPERVISED BY [IN SO KWEON]	<i>Sep. 2015 - Aug. 2017</i>
• A real-time vehicular vision system to seamlessly see-through cars • Intelligent assistant for people with low vision abilities • Machine learning-based autonomous vehicle vision system	
Korea Advanced Institute of Science and Technology (KAIST)	<i>Daejeon, S.Korea</i>
B.S. IN ELECTRICAL ENGINEERING & BUSINESS AND TECHNOLOGY MANAGEMENT	<i>Sep. 2011 - Aug. 2015</i>
• Manager at KAIST International Basketball Club (KIBC) • Vice President, Public Relations Head at KAIST International Student Association (KISA)	

Selected Publications

INTERNATIONAL JOURNALS

- IEEE Access21 A Body Part Embedding Model With Datasets for Measuring 2D Human Motion Similarity
PRL18 Efficient ANMS for homogeneous spatial keypoint distribution

INTERNATIONAL CONFERENCES

- CVPRW19 Red blood cell image generation for data augmentation using cGAN
ICCV17 VPGNet: Vanishing Point Guided Network for lane and road marking detection and recognition
WACV17 Robust road marking detection and recognition using density-based grouping and ML techniques