Oleksandr [Alex] **Bailo**

COMPUTER VISION · MACHINE LEARNING · RESEARCH ENGINEER

Seoul, South Korea

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Summary

Programming Languages: C/C++ • Python • MatLab • Java.
Technical skills: Caffe • Tensorflow • Pytorch • OpenCV • Git • Android Studio.
Languages: Fluent in English, Russian and Ukrainian; Advanced level in Korean.

Education

Korea Advanced Institute of Science and Technology (KAIST)   *Daejeon, S.Korea*

B.S. ELECTRICAL ENGINEERING & BUSINESS AND TECHNOLOGY MANAGEMENT.   *Sep. 2011 - Aug. 2015*

- Manager at KAIST International Basketball Club (KIBC).
- Vice President, Public Relations Head at KAIST International Student Association (KISA).

Korea Advanced Institute of Science and Technology (KAIST)   *Daejeon, S.Korea*

M.S. IN ELECTRICAL ENGINEERING. ROBOTICS AND COMPUTER VISION [LAB.] SUPERVISED BY [IN SO KWEON].   *Sep. 2015 - Aug. 2017*

- 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.

Experience

Noul Inc.   *Yongin, S.Korea*

COMPUTER VISION / MACHINE LEARNING RESEARCH ENGINEER   *Aug. 2017 - Present*

- Microscopy diagnosis of malaria.
- Complete Blood Count (CBC)

K-Healthwear   *Daejeon, S.Korea*

SUMMER INTERN   *Jun. 2015 - Aug. 2015*

- Developed an Android application for 12 lead ECG medical devices.
- Implemented real-time graphing functions of received data.

My Design Lab • KAIST   *Daejeon, S.Korea*

UNDERGRADUATE RESEARCHER   *Dec. 2014 - Jun. 2015*

- Devised "Automatized Wall Painting Drone" to implement painting works for the skyscrapers.
- Implemented real-time graphing functions of received data.

Computer Vision and Image Processing Lab • KAIST   *Daejeon, S.Korea*

UNDERGRADUATE RESEARCHER   *Dec. 2013 - Jun. 2014*

- Developed an eye-friendly projector that prohibits a lighting beam from reaching the presenter's eyes.

Publications

INTERNATIONAL JOURNALS

PRL18   Efficient adaptive non-maximal suppression algorithms for homogeneous spatial keypoint distribution

INTERNATIONAL CONFERENCES

ICCV17   VPGNet: Vanishing Point Guided Network for Lane and Road Marking Detection and Recognition   *Venice, Italy*

WACV17   Robust road marking detection and recognition using density-based grouping and machine learning techniques   *Santa Rosa, USA*

OTHER PUBLICATIONS

arXiv17   Light-weight place recognition and loop detection using road markings

IPIU16   Area-based decision driven best-buddies similarity method for robust template matching   *Jeju, S.Korea*