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Position Overview

The Chun's group at the University of Hawai'i at Mānoa (UHM) has an opportunity immediately available for a Postdoctoral Fellow. The group is seeking highly motivated candidates committed to developing an academic career in autonomous driving using machine learning (ML) & artificial intelligence (AI). Postdoctoral salary is in the range of \$48,000 to \$52,000 depending on prior research experience and qualifications.

The Chun's group has expertise in fundamental ML & AI, optimization, and compressed sensing, applied to diverse image processing and computer vision problems. While developing ML & AI fundamentals, the group is developing state-of-the-art techniques in the following applications: medical imaging (e.g., X-ray CT, MRI, PET, SPECT), computational photography (e.g., light-field photography (simply put, 4D photography), depth estimation, 3D object tracking), and neuroscience (e.g., brain abnormality detection). The main goals of the project are: 1) to develop state-of-the-art autonomous driving frameworks using ML & AI; and 2) to implement developed methods to a UHM campus shuttle system. This is a collaborative project with a civil & environmental engineering professor David Ma who is a Principal Investigator of a \$6M city science project supported by the Hawai'i Department of Transportation, involving Prof. Chun's and Prof. Ma's colleagues specialized in data science, computer vision, or transportation.

Qualifications

- Successful candidate will have a recent Ph.D. in electrical engineering, computer science, civil engineering, or some related fields.
- Candidates with prior research experience in computer vision, ML & AI, control, and transportation engineering are especially encouraged to apply.
- The candidate must be enthusiastic, have strong written and oral communication skills, be highly motivated, intellectually creative, able to work independently, and function well as part of a team.
- It is expected that successful candidates will have a strong track record of research productivity, presentations, and publications.

Application Instructions

To be considered for this position, please send the following materials in an application packet, preferably as a single PDF file, by email to Dr. Il Yong Chun (iychun@hawaii.edu):

- Curriculum vitae
- Research statement (2-page limit)
- Contact information for two references

The application deadline is April 30, 2020 (Hawai'i Standard Time).

We look forward to working with you on this project.

Sincerely,

A handwritten signature in black ink that reads "Il Yong Chun". The signature is written in a cursive, flowing style.

Il Yong Chun, Assistant Professor