Ibsa Kumara Jalata

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Education

University of Arkansas (UARK) — Fayetteville, Arkansas
PhD in Computer Science and Computer Engineering — *Expected December 2022*

Jeonbuk National University — Jeonju, South Korea
Master in Eng. Division of Electronics and Information Engineering. — *March 2015- February 2017*

Addis Ababa University — Addis Ababa, Ethiopia
BSc in Electrical and Computer Engineering

Experience

Graduate Assistance (UARK-CVIU) — August 2018 – Present

Teaching and Mentoring

- CSCE 4613: Artificial Intelligence
- CSCE 4133: Algorithm
- CSCE 4813: Computer Graphics

Research Experience

- Developing and implementing algorithms for action recognition, object detection
- Develop deep learning architectures to create powerful image recognition or video analysis models.

Projects

Emotion Recognition | Sept 2018 – Nov 2018

- Design a generative probabilistic model for recognition of group-level emotion recognition of crowds.

Hand Detection and Recognition | Jan 2019 – December 2019

- Designing a hand detection model using deep learning model for images collected under challenging condition.

Movement Analysis of Neurological and Musculoskeletal Disorders | February 2020 – Nov 2020

- Design a novel Graph Convolutional Neural Network to identify Neurological and Musculoskeletal Disorders

Bug detection and recognition system | February 2020 – Present

- Design and implement a system that can capture images of fast moving bugs using multiple cameras and sensors.
- Design and implement an algorithm that can detect and recognize the insects.

Technical Skills

Languages: Python, C++, C, matlab
Frameworks: Pytorch, Tensorflow

Main Publication

1. Movement Analysis for Neurological and Musculoskeletal Disorders Using Graph Convolutional Neural Network
2. Non-volume preserving-based feature fusion approach to group-level expression recognition on crowd videos.
3. EQAdap: Equipollent Domain Adaptation Approach to Image Deblurring