UNIVERSITY OF SOUTH FLORIDA

Defense of a Master's Thesis

Automated Identification of Stages in Gonotrophic Cycle of Mosquitoes
Computer Vision Techniques
by
Sherzod Kariev

For the MSCS degree in Computer Science

In this paper, we design Computer Vision techniques to determine stages in the Gonotrophic mosquitoes. The dataset for our problem came from 125 adult female mosquitoes, each of which belonged to one of three species Aedes aegypti, Culex quinquefasciatus, and Anopheles stephensi. These mosquitoes were raised in a lab and passed through all four Gonotrophic stages Sugar-Fed, Blood-Fed, Semi gravid, and Gravid). At each stage, their images were captured on a plain background via smartphones resulting in a dataset of 1784 images. The images were then augmented using discussions on the practical impact of our study in this paper.

Monday, October 18th, 2021
3:00 PM EST
Online (MS Teams)
Please email for more information
sherzod@usf.edu
THE PUBLIC IS INVITED

<u>Examining Committee</u>

Sriram Chellappan, Ph.D., Major Professor
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