Join us for HSU

Pub Fridays

Where Everyone Cheers You On

INSECT VISION: Optic Flow, Polarization, and Compressive Sensing

April 29, from 4 - 6 PM at HSU Innovation Institute

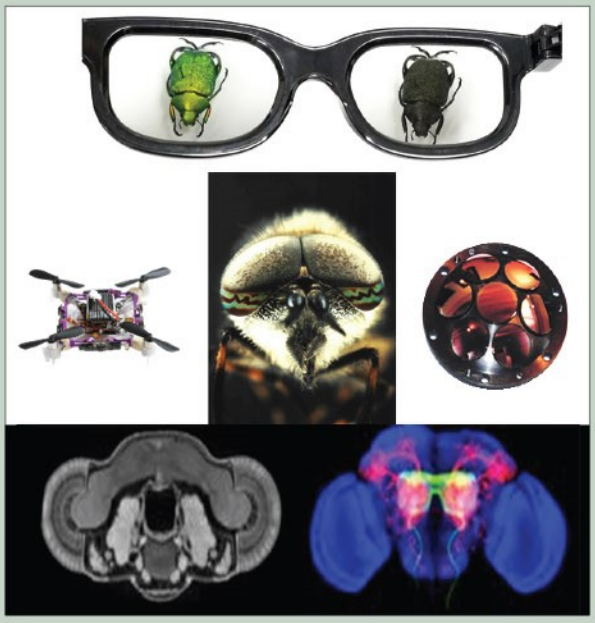
709 Anchors Street, NW, Fort Walton Beach, FL 32548

Research Motivation

Flying insects are existence proofs of low size, weight, and power (SWaP), goal-oriented, autonomous agents.

The Munitions Directorate of Air Force Research Laboratory has been looking at nature inspired systems and processing to deepen their understanding of novel sensing and processing principles in hopes of greatly improving weapon system technologies. The main emphasis of the past decade has made significant progress and understanding in sensing and seeker designs. Join us for a survey of on-going research for a variety of biological systems and how it drives next generation capability.

Introduction & History of Bioprincipic Sensing
– Ric Wehling



Principles of Insect Vision
– Nick Rummelt

How Birds of Prey Could Impact Future Missile Technologies
– Ben Dickinson

Resplendent Reflections of Jewel Beetles
– Laura Bagge

Demonstration: Crazy fly with optic flow and object avoidance
– Geof Barrows

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