

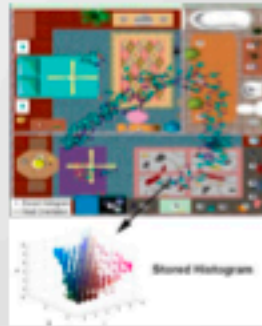
A Real-time Cognitive Operating System

The University of Texas at Austin, Computer Science and Center for Perceptual Systems

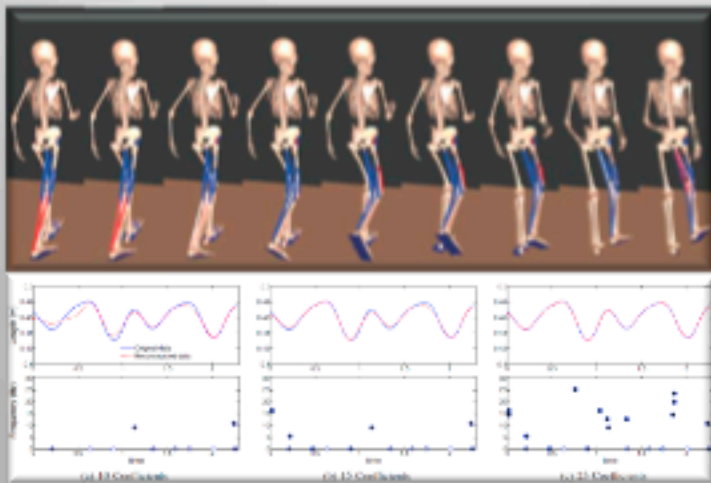
Dana Ballard, Joseph Cooper, Rahul Iyer, and Dmitry Kit

Embodied Cognition and biologically inspired computational models

- Multiple levels of sensory representation, learning, and prediction
- Spatial and temporal hierarchical abstractions of tasks and functionality
- Human subjects for model extraction and validation



Computer models and human subjects in natural vision tasks.



Motor abstractions and sub-spaces.



Interactive control hierarchies.



Cognitive sub-modules.