COMPUTER VISION DISTINGUISHED SPEAKER SERIES

School of Electrical Engineering & Computer Science
University of Central Florida

The Simulation of Humans and Lower Animals Applied to Computer Vision

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The confluence of virtual reality and artificial life, an emerging discipline that spans the computational and biological sciences, has yielded synthetic worlds inhabited by realistic, artificial flora and fauna. Artificial animals are complex synthetic organisms that have functional, biomechanical bodies, perceptual sensors, and brains with locomotion, perception, behavior, learning, and cognition centers.

Artificial humans and lower animals are of interest not just because they are self-animating graphical characters poised to dramatically advance the state of the art of production animation and interactive game technologies. More broadly, these biomimetic autonomous agents in their realistic virtual worlds also foster deeper insights into active perception and perception-guided learning in living systems.

Furthermore, they engender novel applications in visual sensor networks and surveillance.

2:00pm, October 4, 2007
Harris Engineering Center, Room 101
http://www.eecs.ucf.edu/~vision

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BIOGRAPHY



Demetri Terzopoulos is the Chancellor's Professor of Computer Science at UCLA. He graduated from McGill University and received the PhD degree from MIT in 1984. He is a Fellow of the IEEE, a Fellow of the Royal Society of Canada, and a member of the European Academy of Sciences. His many awards include an Academy Award for Technical Achievement from the Academy of Motion Picture Arts and Sciences for his pioneering work on physics-based computer animation. He is one of the most highly-cited computer scientists and engineers, with more than 300 published research papers and several volumes, primarily in computer graphics, computer vision, medical imaging, computer-aided design, and artificial intelligence / life.