

Information Science and Technology Seminar Speaker Series



Dave Ackley
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“A Machine for Robust-First Computing”

Wednesday, June 13, 2012
3:00 - 4:00 PM

TA-3, Bldg. 1690, Room 102 (CNLS Conference Room)

Abstract: Why do computers crash, often at the slightest provocation? Living organisms often suffer major systemic insults yet continue to run. Could we build a machine that didn't crash -- even one that -- couldn't -- crash? In this talk -- mixing revisionist history and overt advocacy with extreme computer architecture and new programming models -- I will argue that we in computing have been optimizing the wrong thing, and suggest that the route to truly large-scale computing places robustness first.

Biography: David H. Ackley is an associate professor of Computer Science at the University of New Mexico, with degrees from Tufts and Carnegie Mellon. Over twenty-five years his research contributions have involved neural networks and machine learning, evolutionary algorithms and artificial life, and biological approaches to computer security and computer architecture.