SEMINAR TITLE

“An Integrated Theory of Concurrent Multitasking”

SEMINAR SPEAKER

Dario Salvucci
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PROGRAM

12:00 - 1:00 p.m. Lecture
12:50 - 1:00 p.m. Q&A and Discussion
1:00 – 1:30 p.m. Pizza

ABSTRACT

In this talk I will describe "threaded cognition," a theory of how people perform multiple tasks at once. The theory posits that streams of thought can be represented as threads of processing across various cognitive, perceptual, and motor resources. The theory's instantiation as a computational model in the ACT-R framework provides explicit predictions of how multitasking behavior can result in interference, or lack thereof, for a given set of tasks. I will discuss the application of the theory in several representative domains ranging from simple psychological laboratory tasks to complex real-world domains such as driving and driver distraction.

BIOGRAPHIC PROFILE

Dr. Dario Salvucci is an Associate Professor in the Department of Computer Science at Drexel University. He received his Ph.D. from Carnegie Mellon University. He has a National Science Foundation CAREER Award, and funding from NIH. In 2001, Dr. Salvucci received the Siegel-Wolf Award for Best Applied Paper at the International Conference on Cognitive Modeling. Dario was honored with the Fred Burggraf Award for excellence by a young researcher from the Transportation Research Board of the National Academy of Engineering in 2002. He is currently an Associate Editor of the International Journal of Human-Computer Studies.