

DISTINGUISHED LECTURE

Center for Embedded Computer Systems

Presents

Smart Cameras as High Performance Embedded Systems

Professor Wayne Wolf
Princeton University

Abstract

The Embedded Systems Research Group at Princeton is developing a smart camera as an example of a high-performance embedded computing system. A smart camera performs real-time computations on an image/video stream. Our prototype system performs human gesture recognition. This talk will describe how we are developing the system from software running on a general-purpose computer through an application-specific multiprocessor.

Biography

Wayne Wolf is professor of electrical engineering at Princeton University. Before joining Princeton, he was with AT&T Bell Laboratories, Murray Hill, New Jersey. He received the B.S., M.S., and Ph.D. degrees in electrical engineering from Stanford University in 1980, 1981, and 1984, respectively. His research interests include embedded computing, VLSI systems, and multimedia information systems. He is the author of “Computers as Components: Principles of Embedded Systems Design”, “Hardware-Software Co-Synthesis of Distributed Embedded Systems” and “Modern VLSI Design” (for which he won the ASEE/CSE and HP Frederick E. Terman Award). Wolf has been elected to Phi Beta Kappa and Tau Beta Pi. He is a Fellow of the IEEE and ACM and a member of the SPIE and ASEE.

Tuesday, July 22, 2003
Refreshments at 3:00pm, Lecture begins at 3:30pm
McDonnell Douglas Auditorium
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