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Special Guest Lectures

Scientific and Industrial Supercomputing

Stanley C. Ahalt, Ohio Supercomputer Center

Executive Director

Johnston Hall 338
December 04, 2008 - 01:30 pm

Abstract:
This talk will provide an overview of the Ohio Supercomputer Center (OSC), including a description of some of the ongoing development and research projects. OSC provides shared high performance computing for Ohio's scientific and engineering communities. The Center effectively leverages these resources on a collaborative basis to procure significant extramural funding for the Center and a wide range of university and business collaborators in Ohio. OSC has played a major role in bringing new research communities, such as signal and image processing, to HPC and has provided national leadership in HPC as applied to industrial applications through its Blue Collar Computing (BCC) initiative. The talk will also include an overview of some of Ahalt's personal research, concentrating on work in video annotation. Video annotation is the automatic or semi-automatic addition of content-derived information that can be extracted from video sequences in order to allow video to be identified, categorized, or differentiated.

Speaker's Bio:
Stanley C. Ahalt, Ph.D., oversees high performance computing, networking, and research operations as Executive Director of the Ohio Supercomputer Center (OSC). Since he joined OSC in 2003, Ahalt has launched several nationally recognized programs, including Blue Collar Computing, a national program to bring high performance computing to a wide spectrum of industries and applications, and OSCnet, the nation's leading high-speed research network for K-12, higher education and economic development. Ahalt's research expertise is in signal and image processing and object identification, high performance computing, and neural networks. He has authored or co-authored more than 120 technical papers. Ahalt also serves as the academic lead in the area of signal and image processing for the Department of Defense (DoD) High Performance Computing Modernization Program. This initiative provides essential support for the wide variety of research and development demands that arise from the science and technology programs supporting DoD's development and support systems. Ahalt collaborates with a variety of organizations in his active research programs, including the Army Research Laboratory, Wright Patterson Air Force Base, and the Defense Advanced Research Projects Agency. Ahalt has been a professor in the Department of Electrical and Computer Engineering at The Ohio State University since 1987, and co-founded the Information Processing Systems Laboratory at OSU. He received the OSU Lumley Research Award in 1997 and the OSU College of Engineering Research Award in 1999. Prior to joining OSU, Ahalt worked at Bell Telephone Laboratories where he developed industrial data products.

This lecture has a reception.

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