Computer Science Dept. and ACM Distinguished Seminar Series

Evolving Data Management Challenges

Dr. Peter Aiken, Virginia Commonwealth University.

Feb 5 Tuesday, 12:30 to 1:30pm

209 Computer Science Building

Abstract - We are in the midst of a paradigm shift in how organizations view and address data usage and delivery of information. Technology has brought us a plethora of data - how companies define, secure and distribute this critical information is what sets them apart. Today's EIM architectural challenges include the publishing of data services and the virtualization of information within the data layer. You will learn the best practices in implementing a scalable and agile architecture for EIM that supports the inclusion of SOA and data services. You will learn how a managed Enterprise Information Architecture, which provides the foundation, is evolving. You will be shown how to build a structured, iteratively-developed, data integration architecture (DIA) using a model-driven methodology which will provide a solid foundation for an SOA environment and support real-time services and business intelligence. You Will Learn:

   • Convergence of EIM and SOA architectural requirements
   • The background, definitions and key terminologies used in both solutions
   • What are the components of a managed EIM architecture (the same foundational elements required for an Services Based Architecture)
   • Best practices and trends in SOA and data integration

We will examine key drivers, definitions, requirements of and review successful and new strategies that show how to deploy and sustain a data services / virtualization plan in your organization.

Brief Bio - Dr. Aiken is an Associate Professor of Information Systems at VCU and Founding Director Data Blueprint. He is the author and co-author of seven books on information technology. Dr. Aiken's achievements have resulted in recognition in The Dictionary of International Biographies, Who's Who in Science and Engineering, Who's Who of Emerging Leaders in America, Who's Who in American Education, Who's Who Among America's Teachers, and other biographical compilations.