Informatics: Contextualizing Computer Science and Software Engineering Education

Debra J. Richardson
Dean of Information and Computer Sciences
University of California, Irvine

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Abstract:

Bio: Debra J. Richardson is the Ted and Janice Smith Family Foundation Dean and Professor of Donald Bren School of Information and Computer Sciences at the University of California at Irvine. She received her PhD in Computer and Information Science at the University of Massachusetts in 1981. She joined the UCI faculty in 1987.

Dr. Richardson pioneered research in “specification-based testing”, whereby formal specifications and methods are employed to guide and evaluate software testing and analysis. She has been investigating software testing for over 15 years. Her current work focuses on enabling specification-based testing technology throughout the software lifecycle, from requirements and architecture analysis through operation and evolution. She has developed leading edge tools, and has worked with several companies in adopting technology to improve the quality of critical software systems.

Dr. Richardson has worked with several companies in adopting technology for improving the quality of their software products and processes. She is currently director of MICRO (Microelectronics Innovation and Computer Research Opportunities), the first industry-university cooperative research program in the University of California.