

Distinguished Lecture Series



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University of Maryland, and Director, NSF I/UCRC Center for
Hybrid Multicore Productivity Research

CREATING ACTIONABLE KNOWLEDGE FROM PASSIVE DATA

Mon., March 26
11 a.m. to 12 p.m., EE 303
FAU Boca Raton Campus

Videoconferenced to the Dania Beach, SeaTech Site, ST 250

Abstract

Large scale healthcare data analysis is a budding area of research currently nurturing a bunch of cross-disciplinary enterprises poised to change the daily course of everybody's life. A cornucopia of biomedical applications born in the wake of the postgenomic revolution recently became a driver for long-awaited implementation of the holistic vision of human health and wellbeing. Data-enabled science ("BigData") borrows its insights from the adjacent fertile fields of genomics, proteomics and metagenomics, transcriptomics and metabolomics, systems biology and bioinformatics. Now it is about time to see postgenomic ideas come to fruition through an acceleration of drug discovery and its time to market, providing means for staving off diseases by watchful maintenance of health and, last but not least, charting the path for healthy aging and personalized medicine.

Biography

Yelena Yesha is a Distinguished University Professor at the Department of Computer Science and Electrical Engineering at the University of Maryland, Baltimore County. She is also the Director of the National Science Foundation I/UCRC Center for Hybrid Multicore Productivity Research. She received her B.Sc. degrees in Computer Science and in Applied Mathematics from York University, Toronto, Canada, in 1984, and her M.Sc. degree and Ph.D. degree in Computer Science from The Ohio State University in 1986 and 1989, respectively. She has published 14 books as author or editor, and more than 200 papers in prestigious refereed journals and refereed conference proceedings, and has been awarded external funding in a total amount exceeding 40 million dollars. Dr. Yesha is a fellow of IBM Centre for Advanced Studies.

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