



Alzheimer's Disease: At the Interface of Engineering, Medicine, and Biology

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12:00 PM Eastern Time

(details are listed in the next page)

Zoom : <https://pitt.zoom.us/j/9630638972>

Abstract: Over the past two decades Biomedical Engineering has emerged as a major discipline that bridges societal needs of human health care with development of novel engineering methods and technologies. In this talk I will focus on systems and engineering approaches to a major health care need of diagnosis and treatment of Alzheimer's disease. Alzheimer's disease is a debilitating disease that afflicts six million people in the United States and has no successful treatment. While cognitive measurements are often the diagnostic indicators followed by various live brain imaging, the diagnoses come too late and clinical trials over two decades on treatments have failed. In this talk, I will identify the challenges in investigating Alzheimer's disease and outline how recent technologies and analytics strategies can help in paving the way for early diagnosis and in designing novel treatments.

Biosketch: **Dr. Shankar Subramaniam** is a Distinguished Professor of Bioengineering, Computer Science and Engineering, Cellular and Molecular Medicine and Nanoengineering at the University of California San Diego. He holds the inaugural Joan and Irwin Jacobs Endowed Chair in Bioengineering and Systems Biology. He is a fellow of the American Institute for Medical and Biological Engineering (AIMBE), American Association for the Advancement of Science (AAAS) and International Federation of Medical and Biological Engineering (IFMBE). Subramaniam is a recipient of the Smithsonian Foundation and Association of Laboratory Automation Awards and his research spans systems biology and medicine. In 2002, he received the Genome Technology All Star Award. In 2011, he was appointed as a Distinguished Scientist at the San Diego Supercomputer Center. In 2019 he was awarded the of IIT Kanpur Jubilee Year Distinguished Alumni Award. Subramaniam is a pioneer in Systems Biology research. His research spans several areas of systems biology and medicine and he has authored over 300 publications.

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