



Robotics and AI -- Enabling Business Transformation and Improving Quality of Life

A VIRTUAL MEETING

Date: Thursday, August 25, 2022

Time: 5:30 PM to 6:15 PM Networking 6:15 PM to 7:30 PM Presentation

Speaker: Dr. Satyandra K. Gupta -- Professor of Mechanical Engineering and Computer Science, University of Southern California (full credentials shown below)

Place: Virtual meeting via ZOOM

Cost: FREE for all with Advance Registration

Registration in advance on Zoom IS REQUIRED. Use this link:

<https://us02web.zoom.us/meeting/register/tZ0qcu2orTgjH9PHcBLVVCZmgLseemOYCIJs>

After registering, you will receive a confirmation email enabling you to calendar the event. It will provide the Zoom link for the actual event.

How Smart Robots are Enabling Innovation

We have witnessed dramatic reductions in costs for computing, networking, and sensor technologies in recent years while performance has skyrocketed. The convergence of multiple technologies is having tremendous positive impacts on society.

AI-based personalized tutors, games, robot competitions, art created by 3D printers, and virtual tours of historic places lead to learning while people are having fun.

Robotics and AI also perform routine tasks, eliminating things we don't want to do, and enabling us to focus on adding value to society. Examples:

- Driverless cars which enable commuters to be productive during their daily commutes.
- Household chores—robots which cook, clean, and extract items from Amazon packages.

Robotics also includes underwater vehicles, flapping wing micro air vehicles, and industrial robots in manufacturing, warehousing, and transport.

Dr. SK Gupta will share recent trends in robotics, and provide a glimpse into the future.

He will describe how robotics and AI technologies are being used to augment human capabilities and how their use is improving the quality of life. He will present an overview of traditional robotics applications, plus recent advances in AI-powered smart robots which are used in many new applications. Smart robots are increasing human productivity, enabling innovation, and making workplaces more accessible to people with disabilities.

Dr. Gupta will also identify the current limitations of robotics technologies, and point to on-going research to address these limitations.

He will also share insights in how to manage these technologies, and opportunities arising for you in the workplace.

Join us on August 25th to better understand the profound impacts of robotics and AI in transforming our world.

ZOOM REGISTRATION IS REQUIRED.

Click the button below to register. You'll then receive a confirming email from Zoom, enabling you to calendar the event. It will provide a Zoom link for the actual event.

Networking Lounge topics

Networking Lounge is from 5:30 PM to 6:15 PM. Come join the discussion. Have your thoughts and ideas ready. We'll want your input!

Zoom Event Registration



ABOUT OUR SPEAKER

Dr. Satyandra K. Gupta holds the Smith International Professorship in the Viterbi School of Engineering at the University of Southern California (USC) and serves as the Director of the USC Center for Advanced Manufacturing. He is also a Co-founder and Chief Scientist at GrayMatter Robotics. He is a member of the Technical Advisory Committee for Advanced Robotics for Manufacturing (ARM) Institute and the National Materials and Manufacturing Board (NMMB).

Prior to joining USC, he served as a Program Director for the National Robotics Initiative at the National Science Foundation.

Dr. Gupta's research interests are physics-informed artificial intelligence, intelligent decision support systems, human-centered automation, and robotics. He has published more than four hundred technical articles in journals, conference proceedings, and edited books. He has also delivered one hundred and seventy invited talks. In recognition of his professional accomplishments, he has been elected as a fellow of the American Society of Mechanical Engineers (ASME), Institute of Electrical and Electronics Engineers (IEEE), Solid Modeling Association (SMA), and Society of Manufacturing Engineers (SME).

He has received numerous honors and awards for his scholarly contributions. Representative examples include Robert W. Galvin Outstanding Young Manufacturing Engineer Award from the Society of Manufacturing Engineers in 2001, Presidential Early Career Award for Scientists and Engineers from President Bush in 2001, Invention of the Year Award at the University of Maryland in 2007, Kos Ishii-Toshiba Award from ASME in 2011, Excellence in Research Award from ASME Computers and Information in Engineering Division in 2013, and ASME Design Automation Award in 2021. He was conferred a Distinguished Alumnus Award by Indian Institute of Technology, Roorkee in 2014. He was named "The 20 most influential professors in smart manufacturing" by Smart Manufacturing Magazine in June 2020. He was given Use-Inspired Research Award by Viterbi School of Engineering in 2021 for creating automation solutions that are addressing US aerospace and defense industry's needs in the advanced manufacturing area.

COMING EVENTS -- SAVE THE DATES

September 29th -- Cyber Security and Privacy -- a Panel of Cyber Security Experts discuss trends and best practices

October 27th – CTOs on Emerging Technologies, moderated by Dr. Tony Karrer -- a Panel of Chief Technology Officers discuss innovation and digital transformation

November 17th -- In-Person Networking Event -- to be held at El Torito in Santa Monica