



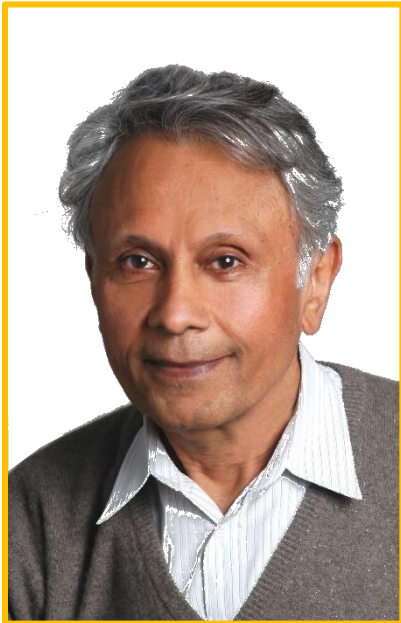
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2 to 3 PM
USC – EEB 132

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Intelligent Intersections Reduce Crashes and Support the Safe Introduction of Autonomous Vehicles

Presented By Pravin Varaiya



Many cities in California have developed Vision Zero plans, seeking to eliminate traffic injuries and deaths through physical modifications to the road infrastructure. However, these modifications can be expensive and have mixed safety results. Crashes in intersections occur because vehicles, pedestrians, and bicyclists are missing critical information. Intelligent intersections report the traffic signal from all approaches, predict when the signal phase will change, relay information on blind spots, and predict red light violations before they occur.

Pravin Varaiya is a Professor in the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley. His current research is devoted to transportation networks and electric energy systems.

40% of all crashes, **50%** of serious collisions and
20% of fatalities *occur in intersections*

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