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## 4th National Conference on Multidisciplinary Design, Analysis and Optimization



### USING OPTIMIZATION FOR MANAGING ELECTRIC VEHICLE (EV) LOADS ON POWER GRID

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5.30PM

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Dr. Arvind Kumar has 20 years of experience in mobility domain. As a VP-R&D at Optym, an MNC in transportation space, he has helped several companies worldwide in improving the efficiency of their operations using advance mathematical modeling tools. For over two years, he has been active in EV domain in various capacities. Through EV primer talks at premier institutes, he has been helping both folks from academia and practitioners to learn about EV domain. He also mentors few startups in related domain, and in past, has also guided the team at a Bangalore/Toronto-based EV startup, Elocity, in developing solutions in EV space to help chargepoint operators, cities and electric utilities grow with the EV adoption.

Dr. Kumar also holds a BTech in Chemical Engineering from IIT Madras, and a PhD in Industrial Engineering from University of Florida. In this talk he will present the challenges posed by EVs on the grid, and how OR and AI models can be used to control the peaks and optimize the fixed and operating cost for the grid besides ensuring grid reliability.