



Indian Institute of Technology Kanpur

Chandrakanta Kesavan Lecture Series



March 12, 2024(Tuesday)



05:30 PM



LH-13



Speaker : Dr. Satyam Sahay

Technology Led Sustainability Solutions for Precision Agriculture

About the Talk



The talk will discuss about technology leveraged solutions for precision agriculture with significant customer sustainability and product circularity impacts. The specific hardware infrastructure, including satellite linked telematics for precision agriculture along with advanced AI/ML based solutions deployed, having significant customer sustainability impact will be discussed. The talk will also share about the OEM organization strategic product circularity goals. In this presentation, implications of the product circularity goals and the approach to meet these goals will be explained. Furthermore, the significant baselining activity for the product circularity goals, a complex analytics project, along with underlying datasets, including product bill of materials and supplier product mix data will be detailed. The necessity of synergizing with sustainability goals of the suppliers will be elaborated.

About the Speaker

Dr Satyam Sahay Heads Advanced Engineering at John Deere Enterprise Technology & Engineering Center at India, Mexico and Brazil. He is a John Deere Fellow, Fellow of Indian National Academy of Engineering (2021), Fellow of ASM International (2013) and Fellow of Indian Institute of Metals (2011). He is the division editor for upcoming ASM Handbook on AI/ML having a section on Industrial Applications of AI/ML in Materials Engineering. At John Deere, he is a member of Enterprise Analytics Leadership Team. His team has applied analytics and AI/ML to diverse business functions ranging from marketing, product engineering, manufacturing, supply chain and customer support with significant business impact. Prior to joining John Deere in 2008, Dr Sahay has worked for 12 years at Tata Research (1996-2008), where he had received two National Awards (2002, 2008) and Tata Group Innovation Award (2008) for his significant contributions to industry. He has 9 Patents, 6 Trade-secrets, 70+ Journal Papers, 100+ Conferences, 1400+ Citations. He contributes in professional societies (IIM & ASM), serves on five international journal boards and has co-chaired several major international conferences.

Organised By

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Department of Sustainable Energy Engineering

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