

Title: Big Data Driven Smart Manufacturing

Abstract: Big data analytics and machine learning have become important enabling technologies to support manufacturing planning and control. Sponsored by European Commission, some pilot manufacturing systems supported by big data analytics and machine learning technologies were developed. The systems were trialled in European Small and Medium-sized Enterprises (SMEs), and improvements on energy saving and productivity improvement were achieved. Observations and discussions on big data driven smart manufacturing will be presented in the talk.



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Bio:

Professor Weidong Li is the dean of the mechanical engineering school at University of Shanghai for Science and Technology. He obtained his PhD degree in mechanical engineering from National University of Singapore in 2002. He worked for Singapore Institute of Manufacturing Technology, Bath University, Cranfield University and Coventry University (become a full professor in 2013). His research areas are smart manufacturing and sustainable manufacturing enabled by big data analytics. In the areas, he has led over 20 major R&D projects sponsored by European Commission, EPSRC (UK), Innovate UK (UK), NSFC (China) and industries like Airbus, Jaguar Land Rover, Sandvik, to name a few. He published five books (Springer) and over 200 research papers in the international journals and conferences. He received two “industrial success story” awards from European Commission, two “best paper” awards from two international journals, and four “best paper” awards from international conferences in the UK, USA, Portugal and China. He is an associate editor for five international journals.