B. Gurumoorthy is a Professor at the Indian Institute of Science in the Centre for Product Design and Manufacturing (CPDM) and the Department of Mechanical Engineering. He is presently the chair of CPDM. His research interests are in the areas of CAD, Product Information Modelling, Computational Metrology and, Product design and prototyping. He did his B.Tech at IIT Madras in 1982 followed by M.E. and Ph.D at Carnegie Mellon University, Pittsburgh, USA in 1984 and 1987 respectively (all in Mechanical Engineering). He has guided 11 PhD dissertations and is presently supervising or co-supervising 8 PhD students. He has 34 Journal publications and 2 patents. He serves on the editorial board of four journals. He is presently the Vice-Chair, Asia-Pacific, IFIP WG 5.1 on Global Product Development for the Whole Life Cycle. Two technologies (automatic feature recognition and visual interactive solids) developed in his laboratory have been licensed to industry and are in active use.

Title

Integrating data with knowledge in PLM

Abstract:

The transition from data to information and then to knowledge has been researched in the design research community. With the increasing appreciation of volume and variety of data being generated in manufacturing processes and systems today, this problem is beginning to be perceived in the later phases of the product lifecycle (manufacturing and service). The need to take advantage of this data explosion to bring in efficiencies in the product lifecycle has caused

the PLM community to focus attention on topics of knowledge structuring, data analytics and context awareness. Integrating the data being generated real-time with domain knowledge is the key problem to be addressed in making use of the data. This talk will highlight some of the issues that are being encountered in doing so particularly in the context of manufacturing.