

Welp, E. G.; Meier, H.; Sadek, T.; Sadek, K.

Modelling Approach for the Integrated Development of Industrial Product-Service Systems

Proceedings of the 41st CIRP Conference on Manufacturing Systems, Hongo Campus, The University of Tokyo, Japan. -2008-

Abstract

Shifting business focus from offering mere physical products to offering IPS² an innovative strategy to meet customer requirements is revealed. The objective of this paper is to present a modelling approach for integrated development of IPS²-concepts in early development phases. The characteristics of the IPS² concept modelling approach are deduced from a case study on a fictitious micro-manufacturing task. The proposed modelling approach abolishes established and mostly diffuse borders between products and services to assess systems behaviour already in early phases. Furthermore, applying the concept of modularisation to services in order to reduce complexity induced by specific IPS²-characteristics is discussed.