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INITIAL DECISION MAKING (IDM) IN THE EARLY STAGE OF PRODUCT-SERVICE SYSTEM DEVELOPMENT

Proceedings of the 8th International Conference on Manufacturing Research ICMR 2010, University of Durham, United Kingdom. -2010-

Abstract

The increasing competitiveness of today's globalised economies and the changing customer requirements have forced manufacturers to aspire providing product and service integrated solutions, referred to as Product-Service Systems (PSS) to their customers. To adapt to dynamically shifting restrictions and uncertain influencing factors during the long-term PSS-Lifecycle, decisions concerning the system's flexibility have to be made in the early stage of PSS development. In this phase the initial decision making (IDM) enables the designer to create an adaptable PSS architecture either by the changeability of PSS subsystems or by the exchange of different subsystems to react to uncertain values. With the development of a methodical conceptual framework supporting IDM, these two alternatives are compared on the basis of their economical as well as engineering properties.