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CONCEPTUAL DESIGN OF INDUSTRIAL PRODUCT SERVICE SYSTEMS (IPS²) BASED ON THE EXTENDED HETEROGENEOUS MODELLING APPROACH

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Abstract

Industrial Product-Service Systems (IPSS) are proposed as a solution to meet individual customer requirements. Thereby, high-investment capital goods are offered in customized business models which highly include services. The mutual determination of mechatronic products and industrial services lead to new challenges. This paper proposes an IPSS concept model based on an extension of the heterogeneous modelling approach in mechatronics. To integrated product and service modelling in early phases of development established and mostly diffuse distinctions between the both are abolished. An integrated and formalized modelling spaces constitutes the basis to integrate IPSS-functions, IPSS-objects and IPSS-processes to IPSS systems behaviour.