

Session 4.2 Systems engineering for demand-oriented products

Time: Tuesday, 05.09.2023

Location: Humboldtbaubau, Lecture Room HU-202

Chairman: S. Husung (D-Ilmenau)

1:30 p.m.	J. Tafur, M. Márquez (PE-Lima), Y. Shardt, A. Gabash (D-Ilmenau)
Optimal Design of a Photovoltaic Station Using Markov and Energy Price Modeling	
1:50 p.m.	Z. Lipšinić, N. Pavković, (HR-Zagreb)
Integrating life cycle assessment in model-based systems engineering	
2:10 p.m.	Z. Li, F. Faheem, S. Husung (D-Ilmenau)
Systematic use of model-based solution patterns using the example of a load cell	
2:30 p.m.	F. Faheem, Z. Li, S. Husung (D-Ilmenau)
Analysis of potential errors in technical products by combining knowledge graphs with MBSE approach	
2:50 – 3:10 p.m. Coffee break and Visits of Expositions	
3:10 p.m.	Mahboob, O. Hussein, L. Willrodt, V. Thanga, M. Takim, H. Hasib, A. Spaans, K. Birkenfeld (D-Munich)
C.Pulse - An industrial demonstrator for a Digital Twin powered by MBSE for achieving digital continuity during the complete development process	
3:30 p.m.	C. Buchholz, J. Blott (D-Stuttgart)
Challenges of implementing MBSE in Industry - a tool vendor experience	
3:50 p.m.	F. Panusch, M. Rienecker (D-Hallstadt), T. Brix, S. Husung (D-Ilmenau)
Systematization of existing uncertainties in the context of product development in the automotive supply industry	



4:10 p.m.	F. Geibel (D-Lohr am Main)
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Digital twin in industrial applications – how model-based systems engineering (MBSE) and asset administration shell (AAS) complement each other

End of Session

