

Session 4.2 Systems engineering for demand-oriented products

Time: Wednesday, 06.09.2023

Location: Humboldtbaubau, Lecture Room HU-202

Chairman: S. Husung (D-Ilmenau)

9:00 a.m.	A. Martin, A. Albers (D-Karlsruhe), F. Weidinger, L. Brinker, S. Wagemann (D-Ditzingen)
Enhancement of an MBSE-supported methodology for managing engineering changes using the example of a machine tool	
9:20 a.m.	C. Mandel, S. Schwarz, A. Albers (D-Karlsruhe), S. Husung (D-Ilmenau)
Improving system of objectives maturity through systematic reuse of knowledge using ontology-based knowledge representations	
9:40 a.m.	S. Hartel, C. Faber (D-Landshut)
Using geometric algebra to create differentiable models for optimizing camera-based optical metrology systems	
10:20 - 10:40 a.m. Coffee break and Visits of Expositions	
10:40 a.m.	P. Trentsios, M. Wolf, D. Gerhard (D-Bochum)
Towards a deep reinforcement learning integration into model-based systems engineering	
11:00 a.m.	S. Finke, R. Maschotta, Y. Hsu, T. Röckl, C. Roßbach, L. Augustin, L. Daubner, J. Deupmann, M. Lehmann, A. Treffurth (D-Ilmenau)
Competence-oriented study in engineering education - examples from the practicing programme	
11:20 a.m.	K. Große, F. Flüggen (D-Nordhausen), U. Hirte, T. Brix, S. Husung, F. Hoffmann (D-Ilmenau)
Hybrid teaching and learning environment in the context of virtual product development	
12:00 noon – 1:00 p.m. Lunch and Visits of Expositions	