Session Program

Aug 12 - 16, 2024

IFIP TC7 System Modeling and Optimization

MS 12: Innovative Methods for Shape Optimization

Von-Melle-Park 8 Von-Melle-Park 8, 20146 Hamburg, Germany

Wed, August 14

2:00 PM 3:30 PM	MS 12: Innovative Methods for Shape Optimization: MS 12-1 Session Location: Von-Melle-Park 8, Seminarraum 211		
	14:00 - 14:30	A combined phase field and sharp method for shape optimisation	
	Speaker Philip Herbert		
	14:30 - 15:00	Polytopic dG-based level-set shape optimization	
	Speaker Alberto Paganini		
	15:00 - 15:30	Limiting Descent Directions in p-Harmonic Shape Optimization	
	Speaker Henrik Wyschka		

Thu, August 15

9:00 AM 10:30 AM 11:00 AM	MS 12: Innovative Methods for Shape Optimization: MS 12-2 Session Location: Von-Melle-Park 8, Seminarraum 211		
	09:00-09:30 Constrained Best Approximation of Shape Tensors and its Role for the Determination of Shape Gradients		
	Speaker Laura Hetzel		
	09:30-10:00 A W-1-∞-appraoch for Shape Optimization using ADMM		
	Speaker Dr Peter Marvin Müller		
	10:00-10:30 Reducing overhangs in additive manufacturing with Shape and Topology optimization		
	Speaker Maximilian Urmann		
	MS 12: Innovative Methods for Shape Optimization: MS 12-3 Session Location: Von-Melle-Park 8, Seminarraum 211		
	11:00-11:30 Computing Multiple Local Minimizers of Topology Optimization Problems and Application for Hydrogen Electrolysis Cell Design		
	Speaker Leon Baeck		
	11:30-12:00 Continuation methods for higher-order density-based topology optimization		
	Speaker Michael Winkler		
	12:00-12:30 Combined topology-parameter multi-material optimization by the topological derivative		
12:30 PM	Speaker Nepomuk Krenn		