

Simulation Technology: Systems for Data Intensive Simulations (SimTech@GI)

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Isolated and monolithic software is not capable of meeting the requirements of nowadays complex simulations any more. Novel approaches are needed to cover all phases of the simulation pipeline – starting from the discretization of models, through software system development, and to the last stage of visualization of the simulation results. Especially challenging are the cases of coupled simulations, where simulation parameters and data have enormous impact, which imposes a strong need for a well-designed simulation workflow.

This workshop focuses on computer science and computational aspects that enable complex simulations. The contributions cover, for example, different aspects of the coupling of simulations, be it on the level of workflow choreographies or in the direct interplay of multi-physics simulations, and the quality and management of simulation results is addressed as well as the efficient integration of tools for their analysis.

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