

Adaptive Techniques for Dynamic Contact Problems

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The necessity to approximate dynamic contact problems arises in many engineering processes. Because of the local effects in the contact zone adaptive techniques are promising for improving the discretisations of these kind of problems. In this talk finite difference methods in time and finite element methods in space are considered to obtain numerical approximations of the solution. Refinement indicators and strategies based on this discretisation are discussed. The talk concludes with numerical results for the presented algorithms.

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