

Talk announcement

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A Posteriori Single- and Multi-Goal Error Control and Adaptivity for Partial Differential Equations

This talk gives a short introduction to goal-oriented a posteriori error control and adaptivity for finite element approximations to boundary value problems for stationary partial differential equations. In particular, coupled field problems with different physics may require simultaneously the accurate evaluation of several quantities of interest, which is achieved with single-goal and multi-goal oriented error control. We briefly discuss the motivation behind goal oriented error control and review two algorithms to drive adaptive mesh refinement.