

A combined phase field and sharp method for shape optimisation

Wednesday, August 14, 2024 2:00 PM (30 minutes)

In this talk, we will consider a novel strategy for the approximation of optimal shapes. The approach is to use a phase field to provide a near-optimal shape. When adaptively refining the phase field, one ensure a well resolved interface. Upon meeting a desired stopping criteria, the level set of the phase field, which defines a shape is passed onto a sharp interface shape optimisation method. A discussion of the numerical treatment as well as some experiment will be provided.

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