Parameter Estimation Using Direct Transcription Methods

John T Betts
jbetts@redwood.rt.cs.boeing.com
The Boeing Company, USA

This talk describes a quadratically convergent algorithm for solving parameter estimation problems. The technique extends direct transcription or collocation methods to applications with discrete data. Issues involving mesh refinement, and sparsity of the Jacobian and Hessian are addressed. The new method is illustrated with a number of examples.