

APMonitor Modeling Language for Mixed-Integer Differential Algebraic Systems

The APMonitor Modeling Language (APM) is an optimization platform for differential and algebraic equations (DAEs) and is coupled with large-scale solvers for data reconciliation, dynamic optimization, and nonlinear predictive control. Applications include computational biology, unmanned aerial systems, chemical process control, smart grid optimization, and oil & gas upstream monitoring systems.

John D. Hedengren john_hedengren@byu.edu

Department of Chemical Engineering
Brigham Young University
350 Clyde Building
Provo, Utah 84602