

P/O/E/T/S

CENTER FOR POWER OPTIMIZATION OF
ELECTRO-THERMAL SYSTEMS

POETS Faculty Profiles

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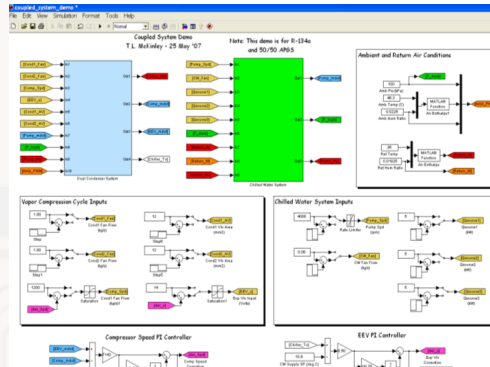
Andrew Alleyne-University of Illinois

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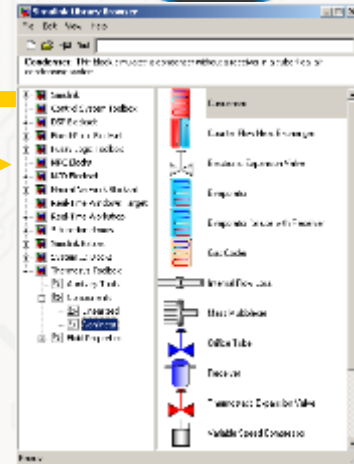
- Modeling simulation and control tools for complex nonlinear systems
- Online dynamic optimization for multi-physics power management
- Theory and Experiment

<http://arg.mechse.illinois.edu>

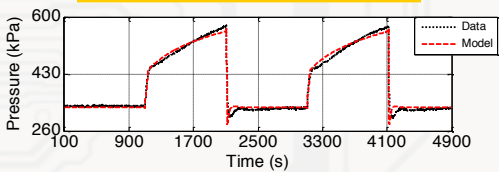


Modeling and Simulation Tools

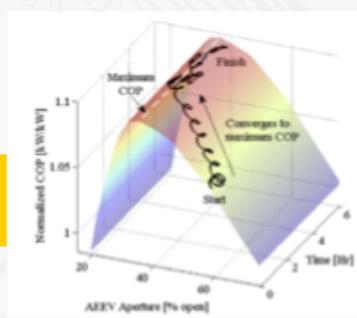
Modular & scalable approach



Model Validation

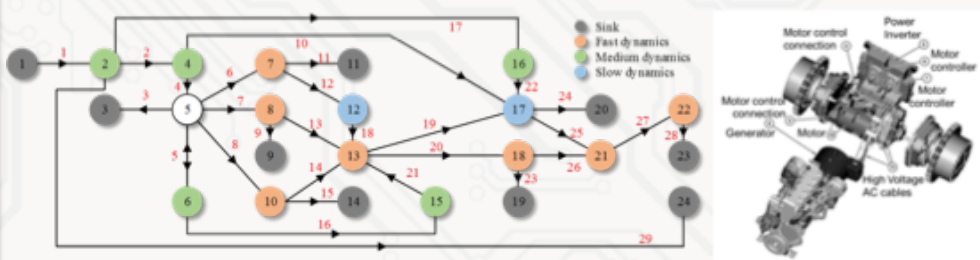
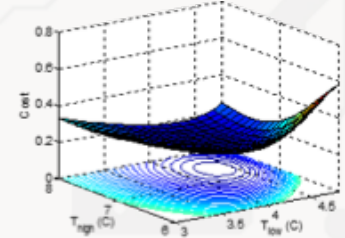


Theory and Experiment



Management of Complex Multi-Physics nonlinear systems

Real-time Optimization



Multi-domain power network analysis