

CSSI Framework: Software: Next-Generation Cyberinfrastructure for Large-Scale Computer-Based Scientific Analysis and Discovery

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- **Methodology Example: The Hypatia.jl Interior Point Solver for Conic Optimization**
 - Highly-configurable open-source solver with flexible interface that allows natural formulations for problems in machine learning and control.
- **Application Example: Technological Pathways to Deep Decarbonization in Electrical Networks**
 - Expanding the scope and complexity of optimal investment planning models through advanced decomposition techniques.
- **A Julia Software Ecosystem That Goes Beyond “Single-Use” Tools**
 - Advanced mathematical optimization and automatic differentiation tools that are performant, accessible and composable.
- **Sustainability Through a Large Community of Open Source Developers**
 - Annual Julia and JuMP Meetings.