

PowerMitigationAgent

Strategy to avoid link overloading. Not yet implemented.

Overridden CascadeAgent methods: mitigateOverload()

⋮ extends
↓

PowerCascadeAgent

Power specific implementation of the cascade agent. Load shedding and adjustments of the generation output is performed to improve convergence. Also power specific measurements like loads are implemented. **Overridden**

CascadeAgent methods: flowConvergenceStrategy()

↓ extends

CascadeAgent

General model of cascading failure as a result of overloaded links and nodes.

Overridden SFINA methods: runFlowAnalysis()

↓ extends

BenchmarkSimulationAgent

Performs general domain independent measurements and saves them to a log file for later access, e.g. number of failed links, flow, utilization, simulation time, number of iterations.

↓ extends

SimulationAgent

Handling the general simulation.

newAgent

Many other Agents can be build on top of this structure. They can extend either of the other Agents, depending on which earlier implementations they would like to make use of by inheriting their methods and functionality. On top of this, more methods can be added or existing ones overridden.

