

## The Power Domination Toolbox

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Phasor Measurement Units (PMUs) are used to monitor the power grid. Efficient placement of PMUs is modeled by the power domination process. The creation of the *Power Domination Toolbox* will allow researchers the ability to investigate power domination on graphs they were previously unable to investigate due to a prohibitively long run-time. Wavefront zero forcing, graph theoretical concepts, and parallel computing methodologies are combined into one cohesive toolbox. This toolbox makes small networks feasible on average computers and can analyze much larger networks on High Performance Computers (HPCs).

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