Sparse Matrix Papers

Computational Complexity in Power Systems, Alvarado, IEEE

Direct Solutions of Network Equations by Optimally Ordered Triangular Factorization, Tinney & Walker, IEEE

Sparsity-Directed Decomposition for Gaussian Elimination on Matrices, Ogboubiri, Tinney, Walker, IEEE

Manipulation and Visualization of Sparse Matrices, Alvarado, Operations research Society of America

Partial Matrix Refactorization, Chan & Brandwajn, IEEE

An Efficient Heuristic Ordering Algorithm for Partial Matrix Refactorization, Betancourt, IEEE

Approximate Sparse Vector Techniques for Power Network Solutions, Bacher, Ejebe, & Tinney, IEEE

Partial Refactorization with Unrestricted Topology Changes, Zhang & Tinney, IEEE

Mode Ordering Algorithm for Sparse Vector Method Improvement, Gomez & Franquelo, IEEE

Sparsity Oriented Compensation Methods for Modified network Solutions, Alsac, Stott & Tinney, IEEE

Sparse Vector Methods, Tinney, Brandwajn, Cnan, IEEE

Partitioned Sparse $A^{-1}$ Methods, Alvarado, Yu, Bentancourt, IEEE

Related Power System Network Analysis Papers

Automatic Contingency Selection, Ejebe and Wollenberg, IEEE

An Advanced Contingency Selection Algorithm. Mikolinnas & Wollenberg, IEEE

Further Developments in LP-Based Optimal Power Flow, Alsac, Bright, Prais, Stott, IEEE
An Efficient Interior Point Method for Sequential Quadratic Programming Based Optimal Power Flow, Nejdawi, Clements, Davis, IEEE

A Tutorial Description of an Interior Point Method and its Application to Security Constrained Economic Dispatch, Vargas, Quintana, Vannelli, IEEE

Enhancements to Givens Rotations for Power System State Estimation, Vempati, Slutsker, Tinney, IEEE

Orthogonal Sparse Vector Methods, Vempati, Slutsker, Tinney, IEEE

State Estimation Using Augmented Blocked Matrices, Alvarado & Tinney, IEEE

A Hybrid State Estimator: Solving Normal Equations by Orthogonal Transformations, Monticelli, Maurari, Wu, IEEE

Adaptive Reductions for Power System Equivalents, Tinney & Bright, IEEE

Choosing the Appropriate Boundary for Adaptive reduction, Chen & Bose, IEEE


Faster Local Power Flow Solutions, The Zero Mismatch Approach, Bacher & Tinney, IEEE