VI. Conclusion

With the increasing complexity of power system networks the reliability analysis of power system is becoming more and more troublesome. As a result of which Bayesian networks have replaced the traditional methods of reliability analysis because of its inherent capacity of modeling complicated networks. In this paper Bayesian Network is used for finding system reliability and severity indices of a power system network. The DIF and RRW are computed based on posterior probabilities obtained from Bayesian network by applying bucket elimination algorithm. The capability of Bayesian network reducing computational burden and its potential of proving severity ranking and an optimal maintenance policy is also explored in this paper.

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