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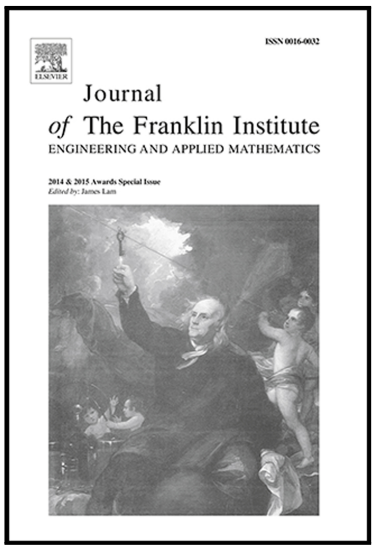

ADAPTIVE MULTI OBJECTIVE DIFFERENTIAL EVOLUTION WITH FUZZY DECISION MAKING IN PREVENTIVE AND CORRECTIVE CONTROL APPROACHES FOR VOLTAGE SECURITY ENHANCEMENT

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Statement of contribution:

- Multi Objective Differential Evolution (MODE) based voltage security enhancement through combined preventive-corrective control strategy.
- Load shedding, generation rescheduling and optimal utilization of FACTS devices are considered for security enhancement.
- Minimization of cost of FACTS devices, minimization of amount of load shedding along with improvement in voltage stability
- The proposed MODE algorithm employs DE/randSF/1/bin strategy scheme with self tuned parameter which employs binomial crossover and difference vector based mutation.
- A fuzzy based decision making algorithm is employed to get the best compromise solution from the non dominated solutions

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