

ADAPTIVE PSO BASED REAL CODED ALGORITHM FOR UNIT COMMITMENT

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Abstract

This paper presents an adaptive PSO based technique that involves real number matrix representing generation schedule for unit commitment. The new generation scheme for initial population and the repairing mechanism attempt to reduce the overall computation time. The algorithm adaptively adjusts the inertia weight and the acceleration coefficients in order to enhance the search process. Numerical results on systems up to 100 generating units display the effectiveness of the proposed strategy.

Keywords: Unit commitment; particle swarm optimization.

Nomenclature

| | |
|---------------------------|---|
| ACT | Average Computation Time |
| ED | Economic Load Dispatch |
| EPM | EP based Method |
| FLAPC | Full Load Average Production Cost |
| GAM | GA based Method |
| LRM | Lagrangian Relaxation Method |
| LRGAM | combined LR and GA based method |
| PSO | Particle Swarm Optimization |
| PA | Proposed Algorithm |
| UC | Unit Commitment |
| a, b, c | fuel cost coefficients |
| CST_i | cold start up cost of unit- i (\$) |
| c_1 & c_2 | acceleration coefficients |
| $F(P_i^t)$ | generator fuel cost function (\$/hr) |
| G | real number matrix |
| $G_{i,t}$ | real power generation of unit- i at hour- t |
| HST_i | hot start up cost of unit- i (\$) |
| K^{max} | maximum number of iterations |
| N | number of generating units |
| n | number of particles in the population |
| P_i^{min} & P_i^{max} | minimum and maximum real power generation of unit- i respectively |
| P_i^t | real power generation of unit- i at hour- t |
| P^d_{load} | load demand at hour- t |
| R^t | spinning reserve at hour- t |
| r_1 & r_2 | uniformly distributed random numbers in the range of [0,1] |
| ST_i^t | startup cost of unit- i at hour- t |
| T | total number of hours |
| T_i^{cold} | cold start hour of unit- i (hours) |

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