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PSO-BASED REAL-TIME SCHEDULING FOR ELEVATOR GROUP SUPERVISORY CONTROL SYSTEM

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ABSTRACT—Elevator group supervisory control system (EGSCS) is an important and essential component in an industrial elevator system. This paper will introduce particle swarm optimization (PSO) as a heuristic intelligent search method to optimize in real time elevator traffic scheduling solution of EGSCS. The proposed PSO-based scheduling approach will be applied to effectively handle the peak elevator traffic. The overall experimental results will be used to validate its scheduling efficiency and effectiveness.