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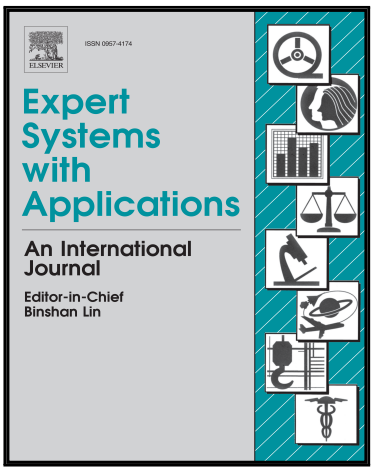

Integration of process planning and scheduling using chaotic particle swarm optimization algorithm

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Highlights

- Chaotic PSO algorithm is proposed to solve NP-hard IPPS problem.
- Ten chaotic maps are implemented to avoid premature convergence to local optimum.
- Makespan, balanced level of machine utilization and mean flow time are observed.
- Five experimental studies show that cPSO outperforms GA, SA, and hybrid algorithm.
- Scheduling plans are tested by mobile robot within a laboratory environment.

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