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Parallel genetic algorithm with a knowledge base for a redundancy allocation problem considering the sequence of heterogeneous components

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Highlights

- Optimal component sequence exists for the reliability of a standby system.
- New redundancy allocation problem (RAP) including component sequence is proposed.
- Parallel genetic algorithm with a knowledge base (PGAKB) is suggested for the RAP.
- The PGAKB operates in the form of an expert system, however, develops by itself.
- The PGAKB showed superior performances regarding solution quality and CPU time.

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