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Title: A hybridization of Genetic Algorithms and Fuzzy Logic for the Single-Machine Scheduling with Flexible Maintenance problem under Human Resource Constraints

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- A new scheduling problem: the single machine scheduling problem includes both production and flexible preventive maintenance jobs under human resource competence and availability constraints.
- Two new scheduling methods: a sequential and a total fuzzy genetic algorithms are proposed to solve the studied integrated problem.
- Fuzzy logic is used to model imprecision of both production and maintenance data.
- New experimental data corresponding to this new introduced schedule problem are generated.
- An experimental study is given to validate and compare the proposed resolution methods.

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