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Discrete-time Markovian arrival processes to model multi-state complex systems with loss of units and an indeterminate variable number of repairpersons

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HIGHLIGHTS

- Multi-state complex systems are modelled in an algorithmic and computational form
- Internal failures and external shocks with multiple consequences are assumed
- Multiple and variable number of repairpersons are assumed in the repair facility
- When a non-repairable failure occurs, internal and/or external, the unit is removed
- The performance-profitable is analyzed through Marked Markovian Arrival Processes

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