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Modeling the Speed-based Vessel Schedule Recovery Problem
using Evolutionary Multiobjective Optimization

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Highlights

- model a speed-based VSRP (S-VSRP) as an MOO problem with two conflicting objectives: total delay and total financial loss
- synthetically generate a set of VSRP instances and make them publicly available for future research
- study the behavior of several MOO algorithms as S-VSRP solvers across a wide range of settings including long vs. short voyages, speed limits and a varying number of port calls
- discuss some insights about the optimizers' performance and statistically validate their significance

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