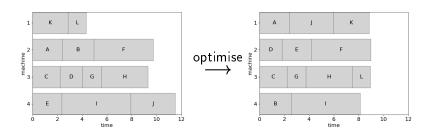
Explaining Makespan Schedules

Myles Lee

25th June 2019

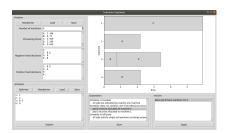
Introduction



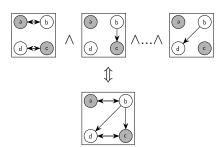
- Solvers and schedules are difficult to understand
- Apply argumentation to makespan schedules to generate explanations



Contributions

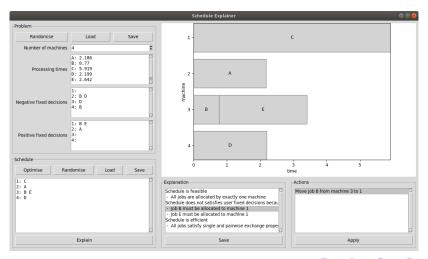


- Interactive tool
- Algorithms

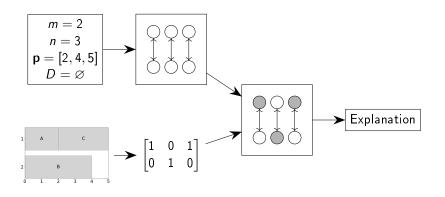


- Theoretical extensions
- Discussion

Demonstration



Pipeline



Abstract Argumentation

- An abstract argumentation framework is a directed graph $\langle Args, \leadsto \rangle$.
- \blacksquare Extension E is a subset of Args.

Definition

E is conflict-free on $\langle Args, \leadsto \rangle$ iff $\forall a, b \in E.a \not\leadsto b$.

Definition

E is stable on $\langle Args, \leadsto \rangle$ iff E is conflict-free on $\langle Args, \leadsto \rangle$ and $\forall a \in Args \setminus E. \exists e \in E.e \leadsto a$.



Theorem

