Explainable Planner Selection for Classical Planning

Patrick Ferber[1,2] Jendrik Seipp[3]

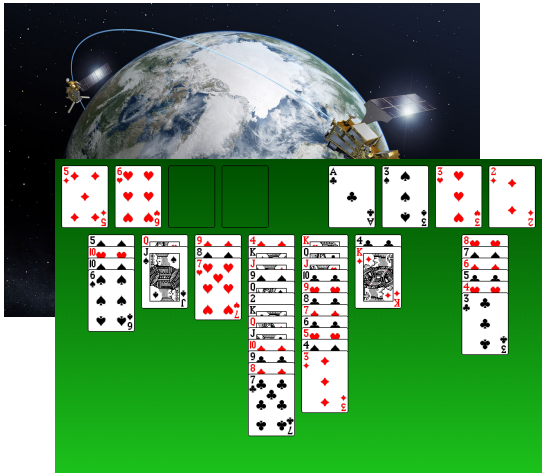
[1]University of Basel, Basel, Switzerland
[2]Saarland Informatics Campus, Saarland University, Saarbrücken, Germany
[3]Linköping University, Linköping, Sweden

36th AAAI Conference on Artificial Intelligence

February, 2022

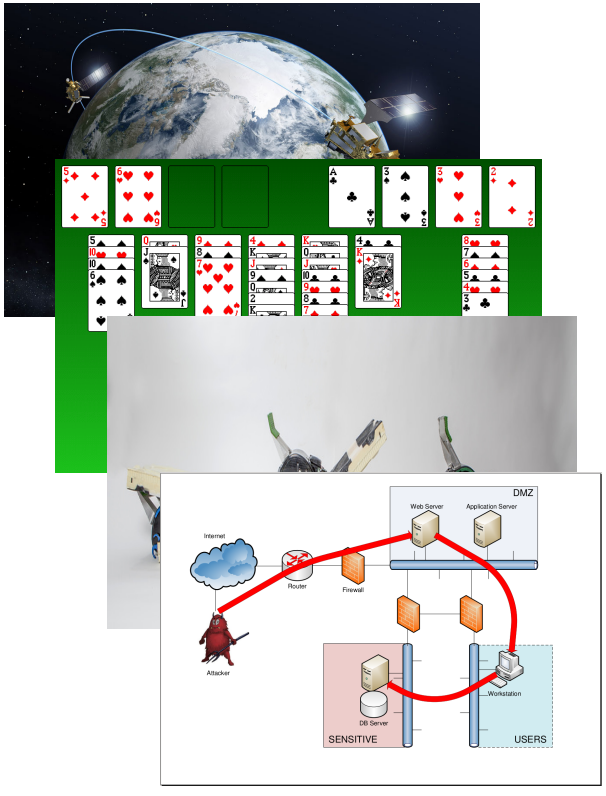
Motivation

Motivation



Motivation

Motivation


DMZ
Web Server
Application Server
Internet
Router
Firewall
Attacker
Workstation
DB Server
SENSITIVE
USERS

Motivation


DMZ
Web Server
Application Server
Internet
Router
Firewall

Motivation

SymBA*

Motivation

SymBA*

DecStar

Motivation

SymBA*

DecStar

Symple-1

Motivation

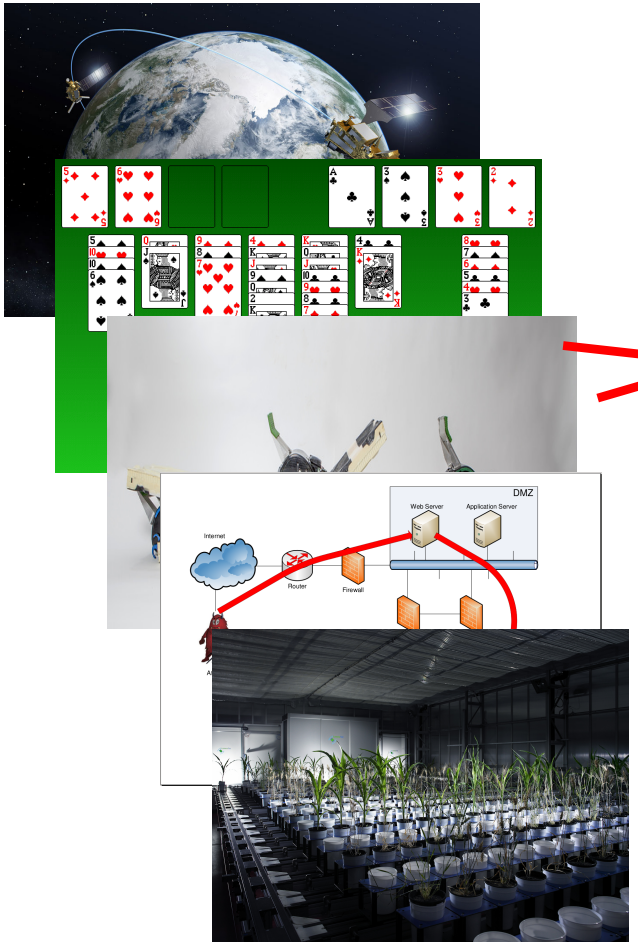
SymBA*

DecStar

Symple-1

...

Motivation



?

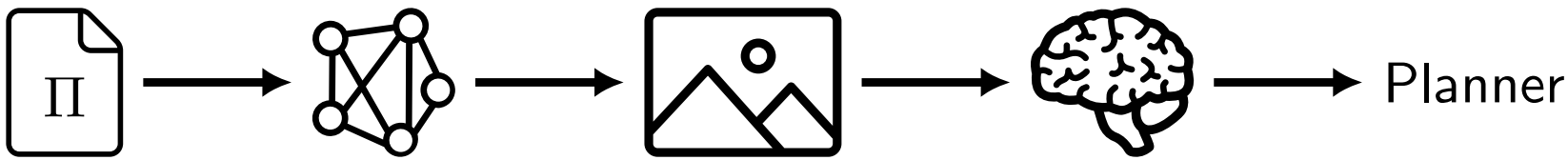
SymBA*

DecStar

Symple-1

...

Delfi (Katz et al., 2018)



Images from the Noun Project: RomStu (file), Agni (network), Alfa Design (image), Samuel Dion-Girardeau (brain)

Contributions

- **explainable techniques** and **understandable features**
- identify **important features**
- investigate **which planners** are selected
- present new self-explaining decision tree

References

Katz, M.; Sohrabi, S.; Samulowitz, H.; and Sievers, S. 2018. Delfi: Online Planner Selection for Cost-Optimal Planning. In *Ninth International Planning Competition (IPC-9): Planner Abstracts*, 57–64.