

Multi-Agent Path Finding on Strongly Biconnected Digraphs

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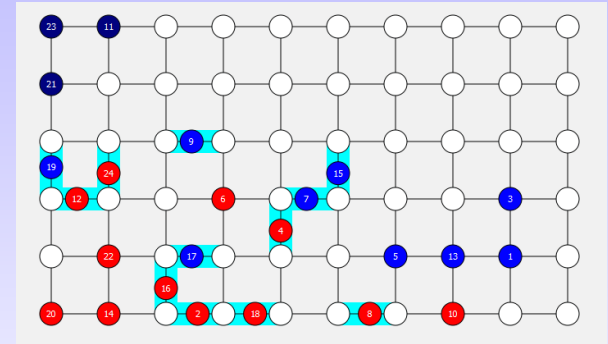
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Multi-Agent Path Finding on Digraphs

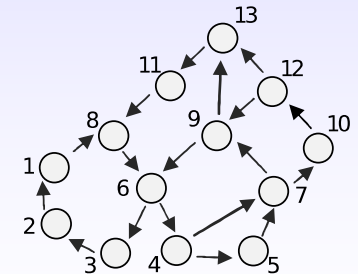
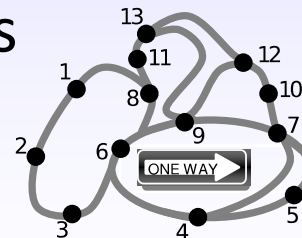
- **MAPF**

- a group of agents (robots, cars, units in RTS, ...)
- each agent has unique **start** and **goal** location
- **collisions** must be avoided
- environment - undirected graph



- **MAPF on digraphs**

- many real environments impose **unidirectional** movements
 - highways, railways



- **diBOX**

- a novel algorithm for MAPF on digraphs
 - underlying digraph - strongly biconnected