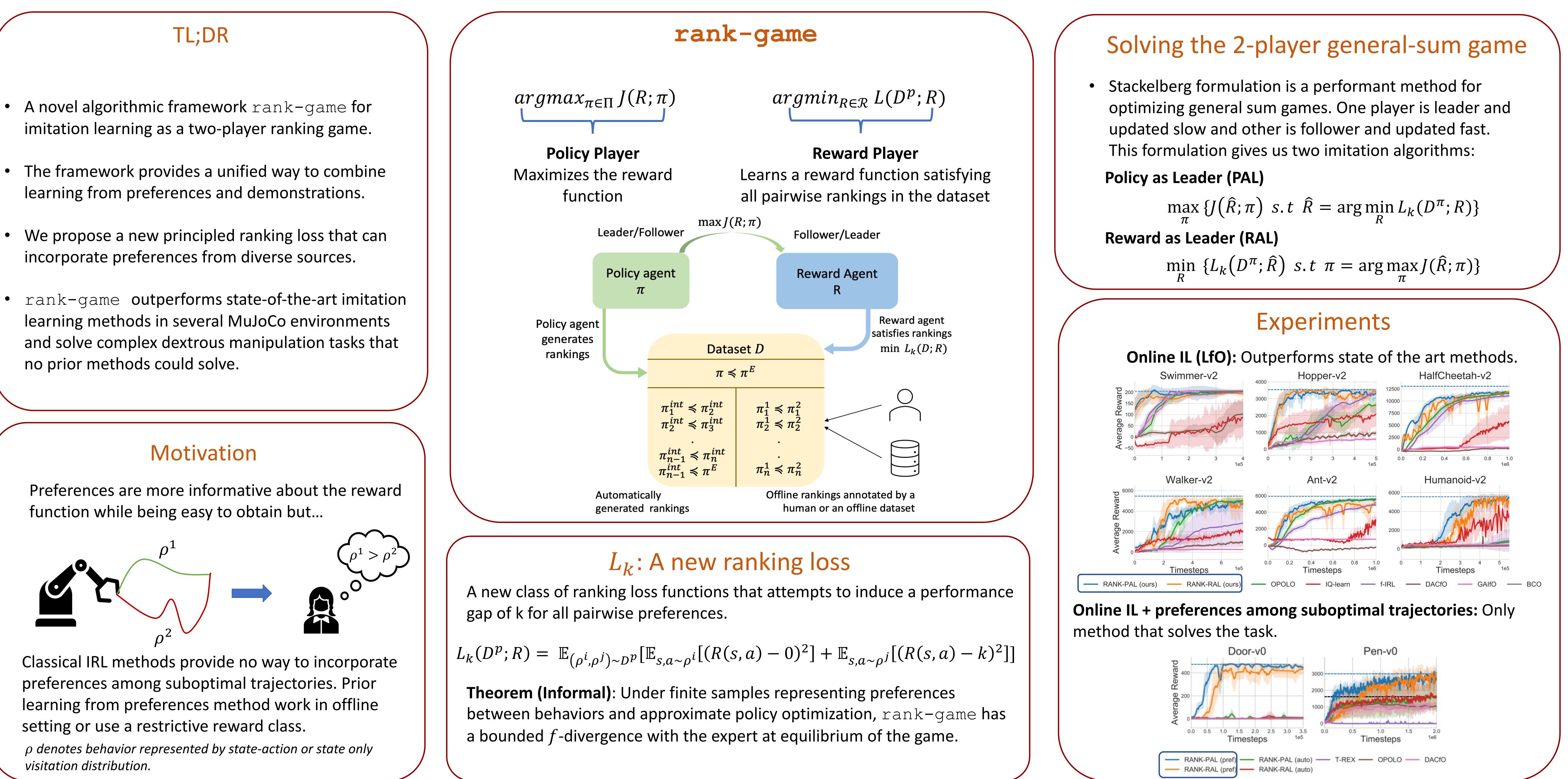


- A novel algorithmic framework rank-game for imitation learning as a two-player ranking game.
- The framework provides a unified way to combine learning from preferences and demonstrations.
- We propose a new principled ranking loss that can incorporate preferences from diverse sources.
- no prior methods could solve.

function while being easy to obtain but...



preferences among suboptimal trajectories. Prior learning from preferences method work in offline setting or use a restrictive reward class.

 $\rho$  denotes behavior represented by state-action or state only visitation distribution.

# A Ranking Game for Imitation Learning

## Harshit Sikchi, Akanksha Saran, Wonjoon Goo, Scott Niekum

