Traditional human-subject experiments vs. LLM-substitute experiments

Game Environment

PD UG PGG

Decision → Payoffs

Round 1
Round 2
⋮
Round n
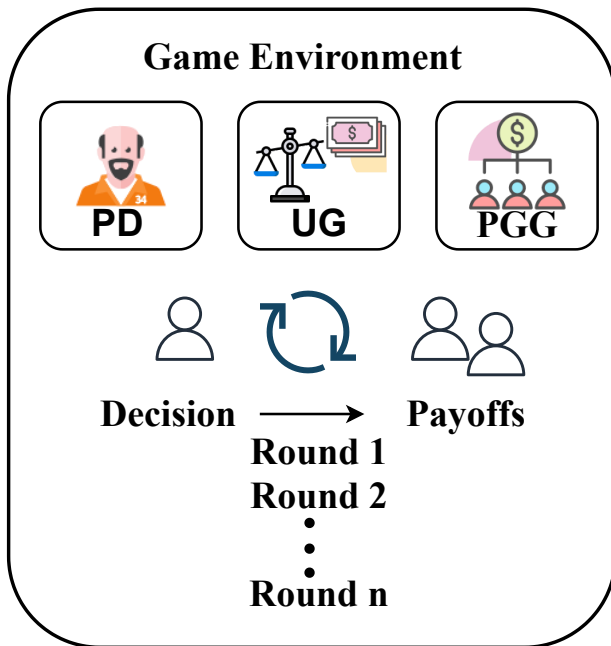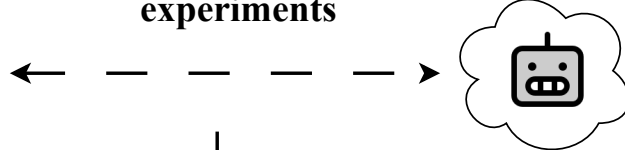
Metrics:
BAM PCI ASP

Single Agent

One LLM + perosona prompt

Multi-Agent

MoE Multi-Agent Router+ Persona subdivided into specialized roles