Effect of Adaptive Communication Support on LLM-powered Human-AI Collaboration

Traditional human-robot teams lack **adaptive communication**, making collaboration inefficient.
We propose HRT-ML framework with various **language feedback** to improve efficiency & engagement.

Inactive Feedback (IFA)
Task Execution < Coordination Need

Passive Feedback (PFA)
Task Execution < Coordination Need
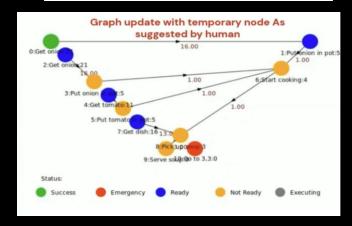
Active Feedback (AFA)
Human Input = Agent Feedback

Super Active Feedback (SFA)
Human Expertise < Agent Supervision

Passive

Super active

Graph-based coordination