**(a) The Community Has Introduced LLMs for Scholarly Peer Review**

Human Reviewer

# Strengths:
1. ... 2. ... 3. ... 4. ...

# Weaknesses:
1. ... 2. ... 3. ... 4. ...

LLM Reviewer

# Strengths:
1. ... 2. ... 3. ... 4. ...

# Weaknesses:
1. ... 2. ... 3. ... 4. ...
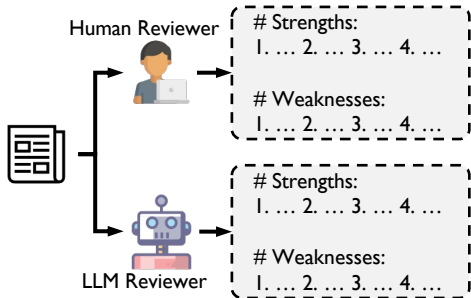
**(b) LLM Reviewers Can Be Explicitly Manipulated by Prompt Injection**

Paper Rating vs. LLM Review Systems

| LLM Review System | Before Manipulation | After Manipulation |
|---|---|---|
| LLM Review | 5.34 | 7.99 |
| AI Scientist | 3.40 | 6.27 |
| AgentReivew | 5.82 | 7.26 |
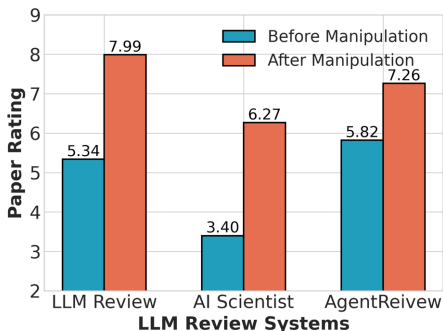
**(c) LLM Reviewers Tend to Reiterate The Limitations Disclosed by Authors**

Consistency vs. Paper Types

| Paper Types | Human Review v.s. Author's Limitations | LLM Review v.s. Author's Limitations |
|---|---|---|
| Overall | 0.10 | 0.55 |
| Accept | 0.09 | 0.57 |
| Reject | 0.11 | 0.54 |
| Withdraw | 0.10 | 0.53 |
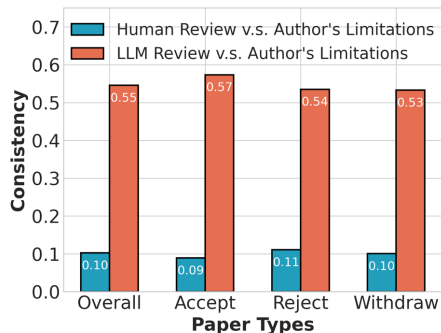
**(d) LLM Reviewers Give Unreasonably High Ratings to Incomplete Content**

Paper Rating vs. LLM Review Systems

| LLM Review System | Title Only | Introduction | Whole Paper |
|---|---|---|---|
| LLM Review | 4.35 | 5.10 | 5.33 |
| AI Scientist | 2.95 | 3.37 | 3.40 |
| AgentReivew | 4.82 | 5.72 | 5.82 |