

Reliable Decision-Making for Multi-Agent LLM Systems

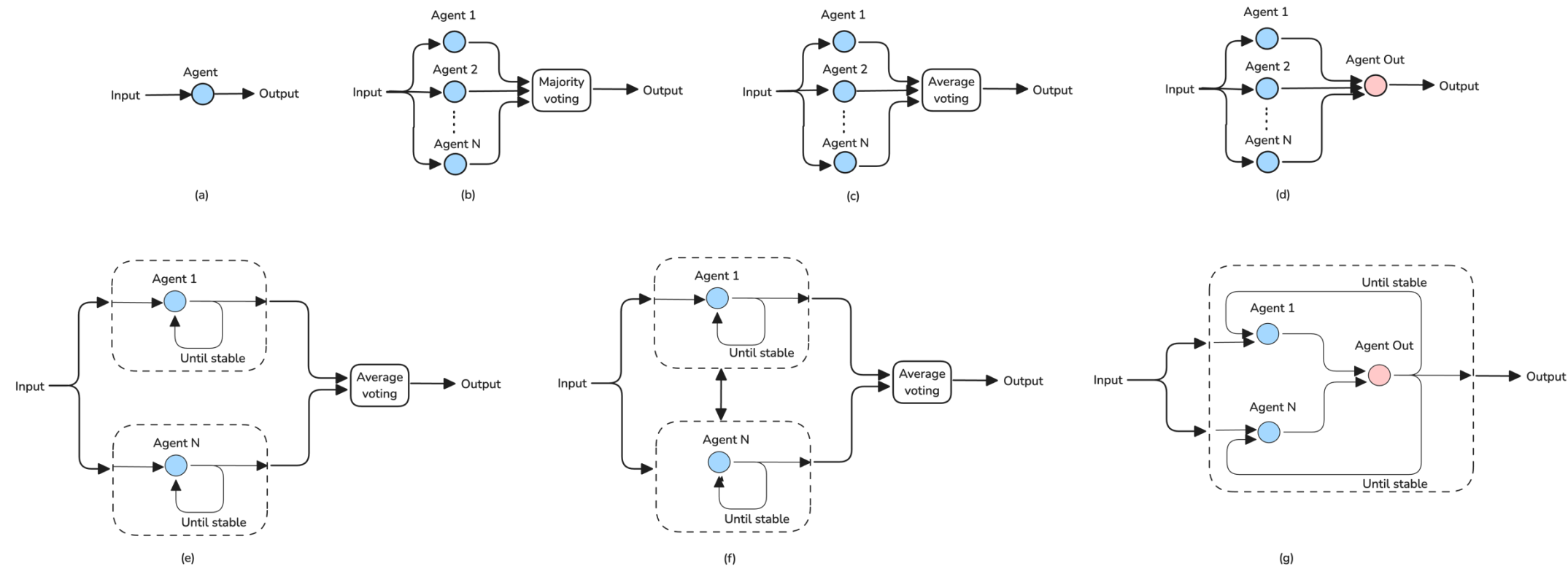


Illustration of different output aggregation strategies

- This work explores the challenges of deploying multi-agent LLM-based systems in industrial environments, where reliability is often more critical than peak performance.
- Through empirical studies on resource allocation, question answering, topic classification, and summarization, we examine how different aggregation strategies impact system consistency, highlighting the need to balance architectural complexity with robustness.

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