Command Theory In Multi-Agent Systems

| Sources: 0 | Confidence: 0.6 *

Alignment: N/A Theory Depth: N/A Clarity: N/A {% if rubric_total_score > 0 %}| Rubric Score: 0.0/100{% endif %}

Disclaimer: This report synthesizes theoretical frameworks from peer-reviewed sources and preprint archives. Claims are mapped to evidence with explicit validation methods (CEM grid). Operational assumptions (bounded-rationality, adversarial comms) are explicitly stated. This is a research brief, not a validated system deployment.

Executive Summary

Outline

Foundations

Formalization

Mechanisms

Applications

Limits & Open Questions

Synthesis & Current Developments

Sources

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Research Roadmap

- **Phase 1 (Theory)**: Formalize claims, extend proofs, validate against canonical results
- **Phase 2 (Simulation)**: Implement stress tests, sweep parameter spaces, measure convergence/scaling
- **Phase 3 (Empirical)**: Deploy in controlled environments, collect field data, validate predictions
- **Phase 4 (Integration)**: Operationalize with human-in-loop, adversarial hardening, production deployment

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Confidence Methodology: Confidence = coverage × reviewer_count × evidence_diversity, where coverage reflects source quality, reviewer_count reflects expert consensus, and evidence_diversity reflects source type distribution (anchor vs preprint).