ANDYGROVE.SYSTEMS CONTINUING PROFESSIONAL UPSKILLING BRIEF // PP-05 (arXiv:2604.12262)
Open-Access Executive & Engineering Study Guide on Fresh AI Operations Preprints
Full Preprints Library: https://andygrove.systems/preprints
42-Hour CPD Curriculum: https://andygrove.systems/education
Canonical Brief URL: https://andygrove.systems/preprint/pp-05
Primary Source URL: https://arxiv.org/abs/2604.12262

TITLE: CascadeDebate: Multi-Agent Deliberation for Cost-Aware LLM Cascades
AUTHORS: Raeyoung Chang, Dongwook Kwon, Jisoo Lee, Nikhil Verma (Apr 2026)
PILLAR: ESCALATION CASCADES

---

1. EMPIRICAL & MATHEMATICAL FINDING FOR CONTINUING PROFESSIONAL UPSKILLING:
Injects lightweight multi-agent deliberation strictly at uncertain escalation boundaries of a cost-aware LLM cascade, resolving borderline ambiguity on small models before paying frontier-tier or human escalation costs.

---

2. ACTIONABLE COO & INDUSTRIAL ENGINEERING PRODUCTION RULE:
Trigger consensus/verification ensembles only on borderline-confidence items, keeping clear routine traffic single-pass.

---

3. SELF-STUDY & TEAM UPSKILLING INTEGRATION (GOOGLE CLASSROOM & COLAB):
* Interactive Calculators (L0-L3 Wilson TRM & L = lambda*W): https://andygrove.systems/calculators
* Runnable Python Queueing & Routing Colab Lab: https://andygrove.systems/colab.ipynb
* 1-Page Agent Line Audit Specimen: https://andygrove.systems/audit

---

NODE 01 (Part-Time Remote IE/OR/BizOps Pods, $20-45/hr): https://andygrove.systems/#apply
NODE 02 (COO Office Audit Desk): mailto:output@andygrove.systems
Independent platform; not affiliated with Intel Corporation or the Grove family.