ANDYGROVE.SYSTEMS CONTINUING PROFESSIONAL EDUCATION SYLLABUS // CPD-02 (GRV-CPD-402)
Workload: 7 PDH / CPE / CPD Hrs | Open-Access Online Self-Study + Colab Laboratory
Education Hub: https://andygrove.systems/education
Fresh Preprints: https://andygrove.systems/preprints
Course Module URL: https://andygrove.systems/course/cpd-02

MODULE TITLE: Step-Level LLM Routing, Frugal Cascades & Prefix KV-Caching for COO Unit Economics
PROFESSIONS: COOs, VP Operations, BizOps Directors & AI Platform Engineering Leads
CORE LAW: C_verified = [Sum_s c(m_s)*E[T_s] + p_esc*w_H*t_H + p_err*c_fix] / Y_FPY
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1. COMPETENCY & CONTINUING PROFESSIONAL UPSKILLING OUTCOME:
Replace naive CFO flat token-price cuts with trajectory step-level routing, immutable prefix KV-caching, and confidence-calibrated cascades that cut inference bills 50-85% without collapsing First-Pass Yield (Y_FPY).
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2. ASSIGNED FRESH 2023-2026 PREPRINTS (HTTPS://ANDYGROVE.SYSTEMS/PREPRINTS):
* PP-02: AgentRouter - Heterogeneous Step Routing (Paul & Nandy, arXiv:2609.22951, 2026)
* PP-05: CascadeDebate (Chang et al., arXiv:2604.12262, 2026)
* PP-13: RouteLLM (Ong et al., arXiv:2406.18665, 2024)
* PP-15: FrugalGPT (Chen, Zaharia & Zou, arXiv:2305.05176)
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3. HANDS-ON LABS & VERIFICATION:
* Colab / Jupyter Notebook: https://andygrove.systems/notebooks/andygrove-coo-hybrid-operations-upskilling.ipynb
* Live L0-L3 TRM & Kingman Queue Simulators: https://andygrove.systems/calculators
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