ANDYGROVE.SYSTEMS CONTINUING PROFESSIONAL EDUCATION SYLLABUS // CPD-03 (GRV-CPD-403)
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-03

MODULE TITLE: Data-Processing Inequality (DPI) Token Budgets & Multi-Agent Failure Mode Diagnostics
PROFESSIONS: Process & Quality Engineers, Technical Program Managers & Multi-Agent Architects
CORE LAW: $B_{eff}(K) = B_{total} K*T_{coord} \sum_k I_{handoff,k}$ (DPI Handoff Loss)
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1. COMPETENCY & CONTINUING PROFESSIONAL UPSKILLING OUTCOME:
Audit 14 MAST multi-agent failure modes across 1,600+ traces, eliminate redundant sequential agent chatter under equal token budgets, and enforce typed schema handoffs at Stage 00.
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2. ASSIGNED FRESH 2023-2026 PREPRINTS (HTTPS://ANDYGROVE.SYSTEMS/PREPRINTS):
* PP-03: Equal Thinking Token Budgets & DPI (Tran & Kiela, arXiv:2604.02460, 2026)
* PP-09: MAST - Why Do Multi-Agent LLM Systems Fail? (Cemri et al., arXiv:2503.13657, 2025)
* PP-08: Scaling Laws for Agent Systems (Kim et al., arXiv:2512.08296, 2025)
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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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