ANDYGROVE.SYSTEMS CONTINUING PROFESSIONAL EDUCATION SYLLABUS // CPD-05 (GRV-CPD-405)
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-05

MODULE TITLE: Human-LLM-OR Complementarity, Test-Time Compute & Deterministic Solver Guards
PROFESSIONS: Operations Researchers (INFORMS CAP), Supply Chain COOs & Decision Scientists
CORE LAW: min_x c^T x s.t. Ax <= b (Exact OR Solver) + LLM Unstructured Context + Human Exception Pod
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1. COMPETENCY & CONTINUING PROFESSIONAL UPSKILLING OUTCOME:
Partition unstructured regime translation (LLMs), exact constrained optimization (MIP/LP solvers), and strategic exception sign-off (humans) while allocating test-time verifier compute strictly to tail difficulty.
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2. ASSIGNED FRESH 2023-2026 PREPRINTS (HTTPS://ANDYGROVE.SYSTEMS/PREPRINTS):
* PP-06: AI Agents for Inventory Control - Human-LLM-OR (Baek, Fu, Ma & Peng, arXiv:2602.12631, 2026)
* PP-11: Scaling Test-Time Compute Optimally (Snell et al., arXiv:2408.03314, 2024)
* PP-14: When Combinations of Humans and AI Are Useful (Vaccaro, Almaatouq & Malone, MIT, arXiv:2405.06087)
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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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