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Fugacity Phase Transition and Hyper-Heuristic Convergence for AI-centric Conceptual Estimating

Authors:
Steve Chan

Keywords: AI Development Life Cycle; Interpretability; explainability; justification logic; decision engineering.

Abstract:
Levels of effort and timetable posits for the development and operationalization of System Transparency, Explainability, and Accountability (STE(A)-centric Artificial Intelligence (AI) Systems (AIS) are beset by underestimation in often overlooked areas, such as the "Optimizing" facet of the "Deploying and Optimizing" phase of the AI Development Life Cycle, among others. This is a high derailment factor in conceptual estimating, particularly for those mission-critical AIS that do not well consider biases stemming from the broader Socio-Technical System (STS), which impact Interpretability & Explainability (I&E). In furtherance of bias mitigation and AIS Whittening — STS-STE(A)-I&E (SSI) — an amalgam construct for facilitating/discerning a Fugacity Phase Transition (FPT) and Hyper-Heuristics (HH) convergence, sequencing to an enhanced SSI contribution, is delineated.

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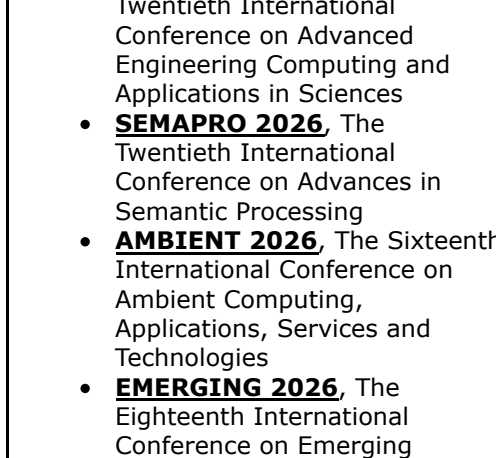
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Location: Valencia, Spain

Dates: from April 6, 2025 to April 10, 2025

- NextTech 2026 Congress**
September 29, 2026 to September 30, 2026 - Porto, Portugal
- ICDS 2026** The Twenty-First International Conference on Digital Society
- SPACOMM 2026** The Eighteenth International Conference on Satellite and Space Communications
- ICEN 2026** The Twenty-Fifth International Conference on Networks
- ICONS 2026** The Twenty-First International Conference on Networks
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- AI&S 2026** The Third International Conference on AI-based Systems and Services
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- SENSORDEVICES 2026** The Twentieth International Conference on Sensor Device Technologies and Applications
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- AFIN 2026** The Eighteenth International Conference on Advances in Future Internet
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- CSRF 2026** The Third International Conference on Sustainable and Regenerative Farming
- CADAT 2026** The Third International Conference on Accessible Digital Agriculture Technologies
- CEE 2026** The Second International Conference on Global Ecosystems Equilibrium
- DataSys 2027 Congress**
March 01, 2027 to March 11, 2027 - Barcelona, Spain
- AICT 2027** The Twenty-Third International Conference on Information Computing and Technologies
- ICIM 2027** The Twenty-Second International Conference on Intelligent Computing and Web Applications and Services
- ICIMP 2027** The Twenty-Second International Conference on Intelligent Computing, Monitoring and Protection
- SMART 2027** The Twentieth International Conference on Smart Cities, Systems, Devices and Technologies
- IMHM 2027** The Seventeenth International Conference on Advances in Information Mining and Management
- INFOCOM 2027** The Seventeenth International Conference on Advanced Communications and Computation
- MOBILITY 2027** The Seventeenth International Conference on Mobile Services, Resources, and Users
- SPMID 2027** The Twentieth International Conference on Smart, Portable, Implantable and Disability-Interventive Devices
- ACCSE 2027** The Twelfth International Conference on Advances in Computation, Communications and Services
- ComputationalIntelligence 2027 Congress**
March 07, 2027 to March 11, 2027 - Barcelona, Spain
- SEASAP 2027** The Nineteenth International Conference on Advanced Service Computing
- CLOUD COMPUTING 2027** The Nineteenth International Conference on Cloud Computing, Tools, and Informatics for Cloud Computing
- FUTURE COMPUTING 2027** The Nineteenth International Conference on Future Computational Technologies and Applications
- COGNITIVE 2027** The Nineteenth International Conference on Advanced Cognitive Technologies and Applications
- ADAPTIVE 2027** The Nineteenth International Conference on Adaptive and Self-Adaptive Systems and Applications
- CONTENT 2027** The Nineteenth International Conference on Creative Content Technologies
- PATTERNS 2027** The Nineteenth International Conference on Patterns and Machine Learning
- COMPUTATIONAL LOGICS 2027** The Eighteenth International Conference on Computational Logic, Algebra, Programming, Tools and Semantics
- BUSTECH 2027** The Seventeenth International Conference on Business Technologies
- AVIS 2027** The Fourth International Conference on Immersive Virtual Reality
- CROSSSEC 2027** The Second International Conference on Cross-Domain Security in Distributed, Intelligent and Critical Systems
- NextComm 2027 Congress**
April 18, 2027 to April 22, 2027 - Lisbon, Portugal
- ICTY 2027** The Twenty-Second International Conference on Intelligent Telecommunications
- SPACOM 2027** The Nineteenth International Conference on Advances in Satellite and Space Communications
- ICN 2027** The Twenty-Sixth International Conference on Networks
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- InfoSys 2027 Congress**
May 23, 2027 to May 27, 2027 - Venice, Italy
- ICNS 2027** The Twenty-Third International Conference on Networks and Systems
- ICAS 2027** The Twenty-Third International Conference on Autonomous and Autonomous Systems
- ENERGY 2027** The Seventeenth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies
- WEB 2027** The Fifteenth International Conference on Building and Expanding Web-based Environments
- DBKDA 2027** The Nineteenth International Conference on Advances in Databases, Applications and Services
- SIGNAL 2027** The Twelfth International Conference on Signal, Image and Video Processing
- BIOCTECHNO 2027** The Nineteenth International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies
- AIHEALTH 2027** The Fourth International Conference on AI-Health
- InfoWare 2027 Congress**
May 23, 2027 to May 27, 2027 - Venice, Italy
- ICCGI 2027** The Twenty-Second International Multi-Conference on Computing in the Global Information Technology
- ICWMC 2027** The Twentieth International Conference on Wireless Mobile Communications
- VEHICULAR 2027** The Sixteenth International Conference on Advances in Vehicular Systems, Technologies and Applications
- INTERNET 2027** The Nineteenth International Conference on Evolving Internet
- COLLA 2027** The Seventeenth International Conference on Collaborative Advanced Networks, Systems and Applications
- INTELL 2027** The Sixteenth International Conference on Intelligent Systems and Applications
- VISUAL 2027** The Twelfth International Conference on Applications and Systems of Visual Paradigms
- HUBO 2027** The Twentieth International Conference on Humanoid Robotics
- NEUROINFORM 2027** The Twelfth International Conference on Neuroscience and Cognitive Brain Information
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