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2025 GENERAL ASSEMBLY

Stockholm - Sweden

CIRP-2025-O-3-

SCIENTIFIC TECHNICAL COMMITTEE "O" (PRODUCTION SYSTEMS and ORGANIZATION)

Meeting to be held on Friday, August 22, 2025
8.30 - 12.30

You are kindly invited to participate in the next PRODUCTION SYSTEMS AND ORGANIZATION Scientific Technical Committee meeting to be held in Stockholm.

Draft Agenda

1. Opening, welcome, introduction of invited guests, approval of the agenda
2. Approval of the minutes from the last meeting
3. Keynote papers
 - 3.1. 2026: Digitally optimized maintenance: path towards automation
(J. Erkoyuncu, F. Ansari, B. Iung, S. Takata) – Update and Outlook
 - 3.2. 2027: Cybersecurity for the Emerging Manufacturing Networks
(S. Bukkapatnam, N. Papakostas, S. Smith, S. Kumara) – Update and Outlook
 - 3.3. 2028: Keynote proposal and voting
 - 2028: Forecasting and inventory management in digitalized production systems
(O. Battaïa, A. Dolgui, I.S. Jawahir, L. Wang)
 - 2028: Foundation models for value creation in linear and circular manufacturing
(F. Ansari, M. May, S. Thiede, G. Lanza, R. Gao)
4. CIRP Novel topics - proposal of STC O new essays
5. Future conferences
 - 5.1. CIRP Manufacturing Systems Conferences
 - 2026: 59th Conference – Austin, Texas, USA
 - 2027: 60th Conference – Vienna, Austria
 - 2028: 61st Conference – Cranfield, UK - Proposal
 - 5.2. Other conferences
 - 16th Conference on Learning Factories 2026 – Vote
 - 21st Conference on Intelligent Computation in Manufacturing Engineering 2027 – Vote
6. STC O Engagement Strategy

* * *Coffee Break * * *

7. Invited talk
8. Short technical presentations in STC O research area (2) “Orchestration, management and operation of production systems and networks”
 - 8.1. *Data-based production controlling*
(M. Schmidt)
 - 8.2. *Generative Manufacturing Systems to Orchestrate Autonomous Manufacturing Resources*
(X. Li, A. Nassehi)
 - 8.3. *Understanding causal relationships during production ramp-up using causal inference methods*
(R. Schmitt, M. Hinrichs, D. Wolfschläger)
 - 8.4. *Assessing the Potential of Energy Efficiency and Energy Flexibility in Matrix Production Systems*
(S. Ihlenfeldt)
 - 8.5. *Environmental and social equity in network design of sustainable supply chains*
(O. Battaia)
 - 8.6. *Orchestrating Unlabeled Plant Data for Scalable Quality Monitoring via Multi-Scale Contrastive Learning*
(X. Zhao, P. Wang, H. Ghessemi-Armaki, B. Carlson)
 - 8.7. *Production system operation with Digital Twin cluster control through an agentic multi-modal LLM framework*
(M. May, S. Kim)
9. Closure

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