



7th International Conference on Data Analytics & Management (ICDAM-2026)

Date: 12th – 14th June, 2026

ORGANISED BY: London Metropolitan University, London, UK (Venue Partner)

***** **CALL FOR PAPERS** *****

SPECIAL SESSION ON

Agentic AI & Autonomous Infrastructure Security

SESSION ORGANIZERS

Dr. (Prof.) Vinay Kumar Pandey, Galgotias University, Greater Noida, India

SESSION DESCRIPTION:

The convergence of Agentic AI and autonomous infrastructure security has shifted cyber defence from static, rule-based monitoring to dynamic, self-healing ecosystems, where "silicon employees" actively hunt threats and remediate vulnerabilities without human intervention. As these autonomous agents are granted "outcome-driven" permissions to manage critical cloud and network operations, they introduce novel attack vectors such as excessive agency, where agents are manipulated via prompt injection to execute unauthorised wire transfers or data deletions, and token theft, where adversaries compromise the non-human identities agents use to authenticate across multi-cloud environments. To counter these risks, organizations are deploying Agentic SOCs that utilize specialized

AI teams to triage alerts 20x faster than humans and implement identity-centric Zero Trust architectures, which enforce cryptographic attestation and real-time behavioural guardrails to continuously verify an agent's "intent" before authorizing high-stakes actions. This operational shift is underpinned by emerging regulatory frameworks like ISO 42001 and the NIST AI Risk Management Framework, which now mandate rigorous "human-in-the-loop" oversight and immutable audit trails for all autonomous decision-making.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- Autonomous Defense & Incident Response
- Emerging Technologies for Machine Identity & Non-Human Governance
- Cryptographic Agent Identity
- Orchestration & Coordination Security
- Agentic SOC (Security Operations Center)
- Quantum-Resilient Agent Protocols

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[From Data to Decisions: AI Transforming Structural Monitoring]** *on or before* **[20th Feb, 2026]**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at <https://icdam-conf.com/>. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **[Session Name]** at the top (above paper title) of the first page of your paper.

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