

International Workshop on Service-Oriented Computing for Intelligent Agents (SOC4IA 2026)

To be held with the 24th International Conference on Service-Oriented Computing (ICSOC 2026)

Łódź, Poland – December 1, 2026 · Website: <https://soc4ia.univ-tours.fr> · Contact: soc4ia@univ-tours.fr

Overview

The emergence of **Agentic IA** is transforming isolated software applications into interconnected service ecosystems in which autonomous and semi-autonomous AI agents act on behalf of users and organisations, enabling autonomous reasoning, collaboration, and service interaction across diverse domains, including enterprise systems, cloud platforms, public services, and the emerging Agentic Web. As these intelligent agents become increasingly deployed across such environments, they introduce new challenges related to interoperability, orchestration, governance, trust, security, lifecycle management, and accountability. Recent initiatives such as the Model Context Protocol (MCP), Agent2Agent (A2A), AP2, and AGNTCY illustrate the rapid evolution toward open agent ecosystems. Nevertheless, many existing solutions remain fragmented and lack the engineering principles needed to support dependable, interoperable, and scalable deployments.

The **Service-Oriented Computing (SOC)** community provides a strong engineering foundation for addressing these challenges. Through years of research and innovation, SOC has established mature principles and technologies for service discovery, composition, orchestration, interoperability, quality of service, governance, observability, and lifecycle management. These concepts naturally extend to the engineering of intelligent agents, enabling them to be designed, deployed, and managed as robust service-oriented software components within complex distributed ecosystems.

SOC4IA 2026 provides an international forum for researchers and practitioners to present and discuss advances in the engineering of intelligent agents from a Service-Oriented Computing perspective. The workshop particularly encourages contributions that bridge Service-Oriented Computing with Artificial Intelligence, Multi-Agent Systems, Business Process Management, the Semantic Web, Security, Human-Agent Interaction, and other disciplines involved in the design and operation of intelligent agent ecosystems.

SOC4IA 2026 continues the 1st International Workshop on Data-Centric Artificial Intelligence for Intelligent Agents (DCAI4IA 2025) (<https://dcai4ia.univ-tours.fr/>), held in conjunction with ICSOC 2025, by extending its scope from data-centric AI toward the broader engineering of service-oriented intelligent agent ecosystems. It also builds on the discussions initiated at the 1st International Workshop on Foundations and Architectures for the Agentic Web (FAAW 2026) (<https://faaw.univ-tours.fr/>) broadening these perspectives beyond Web-based environments to encompass the wider Agentic AI landscape while strengthening the connection with the Service-Oriented Computing community.

Topics of Interest

We welcome research, position/vision, and industry/experience papers on topics including, but not limited to:

- **Foundations and Engineering of Intelligent Agents** — architectures, frameworks, and engineering methodologies for intelligent agents and agentic services; deployment, operation, maintenance, evolution, and data engineering.
- **Agent Discovery and Service Ecosystems** — discovery, publication, and selection of intelligent agents; service registries, capability descriptions, and matchmaking.
- **Composition, Collaboration, and Orchestration** — service composition and orchestration by intelligent agents; goal-driven planning and execution; multi-agent collaboration and coordination; workflow automation.
- **Interoperability and Open Standards** — interoperability protocols and standards (e.g., MCP, A2A, and related initiatives); semantic interoperability; capability representation and service integration.

- **Governance, Trust, and Security** — governance of Agentic AI ecosystems; trust, cybersecurity, privacy, compliance, policy enforcement, and risk management.
- **Observability, Explainability, and Accountability** — monitoring and observability of intelligent agents; provenance, execution tracing, explainability, and transparency.
- **Quality Assessment and Evaluation** — quality of service for intelligent agents; performance evaluation and benchmarking; testing, validation, and certification.
- **Platforms, Infrastructures, and Applications** — agent platforms and ecosystems; cloud, edge, IoT, cyber-physical systems, and digital twins; human–agent collaboration; industrial applications and experience reports.

Types of Contribution

- **Research Papers** : original, technically validated research (up to 12 pages).
- **Position or Vision Papers** : forward-looking arguments and open problems (up to 8 pages).
- **Industry and Experience Papers** : case studies and deployment experience (up to 12 pages).

Page limits include references and follow the ICSOC 2026 workshop policy.

Submission Guidelines

All submissions must be formatted according to the **Springer LNCS** style for ICSOC 2026. Each submission will be reviewed in a **single-blind** peer-review process by **at least three** Program Committee members.

Submission link (EasyChair, via the ICSOC 2026 system):
<https://easychair.org/conferences/?conf=icsoc2026>

Important Dates

All dates To be announced; “Anywhere on Earth” applies once confirmed.

- **Paper submission deadline: 23 September 2026**
- **Notification of acceptance: 24 October 2026**
- **Camera-ready submission: 07 November 2026**
- **Workshop date: 01 December 2026**

Publication

Accepted papers will be published as **post-proceedings to appear in Springer** together with the other workshops.

Organising Committee

- **Boualem Benatallah**, Dublin City University (DCU), Dublin, Ireland
- **Sahraoui Dhelim**, Dublin City University (DCU), Dublin, Ireland
- **Yacine Sam**, University of Tours, France

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