Call for Papers

SASWIM 2023
The Fourth International Workshop on
Service Assurance in System Wide Information Management

March 15-17, 2023 Mexico City, Mexico

This workshop will be held in conjunction with the 15th International Symposium on
Autonomous Decentralized Systems (ISADS 2023, https://www.isads2023.org)

General Co-Chairs
Remzi Seker, Western Michigan
University, USA
Tadashi Koga, ENRI, Japan

Program Committee Co-Chairs
Radu Babiceanu, Embry-Riddle
Aeronautical University, USA
Xiaodong Lu, ENRI, Japan

Program Committee
(Being formed)
Ilhan Akbas, ERAU, USA
Sehwan Han, Aviation Research
Institute, Korea
Carlos Morales, University of
Granada, Spain
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Houbing Song, ERAU, USA
Hironao Takahashi, ARIS-AI Lab,
Japan
Zhijun Wu, Civil Aviation
University of China, China
Kenji Yoshigoe, ERAU, USA

Important Dates:
Paper submission due:
November 15, 2022

Author notification:
December 15, 2022

Final manuscript due:
January 31, 2023

**Contact information of the
workshop organizer:**
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Scope:
   With the advancement of business globalization and technology standardization, the requirement for constructing a "collaborative environment" which allows different stakeholders and heterogeneous systems to cope with the full complexity of real-time operational information exchanges has been increasing. To achieve interoperable and harmonized operation, the System Wide Information Management (SWIM) concept has been proposed and has been applying in the current Global Air Traffic Management (ATM) System. Service Assurance in the SWIM is defined as capability of guaranteeing the quality of data, information and service provision and utilization during the entire life cycle of a mission critical operation system under heterogeneous and changing requirements.

   The objective of the Workshop is to provide the premier interdisciplinary forum for academic and industry professionals to discuss recent progress in the area of system and network architecture, software implementation, test-bed developments, experiments, evaluation and analysis of SWIM concept based global ATM integration and related applications.

   Topics of interest for this workshop include, but are not limited to:
- SOA and Cloud technologies for service assurance
- Communication and network technologies for service assurance
- Modeling, simulation, evaluation, validation and analysis of SWIM-based applications
- Data, information and service management
- Safe and secure air transportation system
- Security issues for information management
- Aircraft/airline operation for service assurance
- Air/ground integration
- Trajectory based operations
- Surveillance and situational awareness
- Improved environmental performance
- Aviation related data, information and service delivery
- System level standardization
- Integration of ATM and UTM (Unmanned aircraft system Traffic Management)
- SWIM-based applications for Advanced Air Mobility (AAM)

Information for Authors:
   Prospective authors are invited to submit full papers (IEEE double-column conference paper format, 6 pages) to describe original work (not submitted or published elsewhere). Authors are also invited to submit digest papers (IEEE double-column conference paper format, 2-4 pages) to showcase results recently obtained in industry or academia. All accepted papers will be presented at the conference and published in the ISADS 2023 Proceedings. At least one of the authors of each accepted paper must register and present the paper at ISADS 2023. Authors must submit their manuscripts electronically to https://easychair.org/conferences/?conf=saswim2023.