



2022 IEEE International Conference on Web Services (ICWS)

part of the 2022 IEEE World Congress on SERVICES

<https://conferences.computer.org/icws/2022/>

JULY 10-16

HYBRID FORMAT - ONLINE AND IN PERSON
HOSTED AT UPC TERRASSA CAMPUS
BARCELONA, SPAIN

CALL FOR PAPERS

IEEE International Conference on Web Services (ICWS)

The IEEE International Conference on Web Services (ICWS) is the flagship conference focusing on Web-based services, featuring services modeling, development, publishing, discovery, recommendation, composition, testing, adaptation, and delivery, and Web services applications and standards.

All topics relevant to Internet/Web based services are of interest. ICWS 2022 will organize refereed paper reviews in 8 research areas (themes):

Services Discovery, Selection and Recommendation

- Service publishing
- Service search engine
- Collaborative filtering
- Service recommendation
- Service reasoning
- Machine learning powered service discovery

Service Oriented Technology Trends

- Microservices design, specification, customization, deployment and management
- Smart-services design, specification, customization, deployment and management
- IoT/Edge services design, specification, customization, deployment and management
- Lightweight service deployment and management
- Requirements-driven Service Design
- AI-enabled Servitization
- User eXperience & Human in the loop in Servitization

Services Composition

- Automatic service composition
- Scientific workflows
- Business process integration and management
- Service coordination and cooperation
- Service-based data integration
- Data-driven service composition
- Knowledge-driven service composition
- Service orchestration and choreography for the future Internet

Services QoS Management

- Quality-of-Service (QoS) modeling and management
- Service QoS evaluation and prediction
- Autonomic services
- Web services testing
- Performance aspects of cloud and service virtualization
- Service level agreements

Services Security, Privacy and Trust

- Internet service security
- Privacy and trust
- Dependable and secure services
- Service auditing
- Service policy control
- Policy, regulation and governance & Servitization

Service Applications beyond the Web

- Web Services for the Internet of Things (IoT)
- Services in Cyber-Physical Systems (CPS)
- Social networks and services
- Cloud services
- Mobile web services
- XaaS (everything as a service)
- Service-based processing and querying
- Service-based recommendation and prediction
- Crowdsourcing Services, Conversational Services
- Services for Artificial Intelligence
- (Smart) Cybersecurity services
- Other applications

Semantic Service

- Semantic service modeling
- Cognitive (augmented) Services
- Semantics-based service discovery
- Semantics-based service composition

Services and Data/Big Data

- Big Data-centric services
- Data-provisioning services
- Services for linked open data
- Data-mining and analytics Services

Service Oriented Software Engineering

- Service-Oriented Architecture (SOA)
- Service specification and modeling
- Service evolution
- Service Oriented Software Engineering methodologies
- Formal methods in services
- Software engineering for adaptive service-oriented systems
- Secure service lifecycle development

PAPER SUBMISSION INSTRUCTIONS

Instructions for authors, including the submission link, are available at:

<https://conferences.computer.org/icws/2022/cfp/>

IMPORTANT DATES - UPDATED

Submissions due:

April 1, 2022

Final notification to authors:

May 15, 2022

Camera-ready manuscript and registration due:

June 1, 2022

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