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
- 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

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**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

**CONTACT ICWS ORGANIZERS**
- athman.bouguitaya@sydney.edu.au (General Chairs)
- xiaofei.xu@harbininstitute.com (Program Chairs)

**General Chairs**
- Athman Bouguettaya, University of Sydney
- Xiaofei Xu, Harbin Institute of Technology

**Program Chairs**
- Chirine Ghedira Guegan, University of Lyon
- Jianwen Su, University of California at Santa Barbara