The 2021 IEEE World Congress on Services will be held as an all-online virtual event. The Congress is solely sponsored by the IEEE Computer Society under the auspice of the Technical Committee on Services Computing (TCSVC). The scope of the Congress will cover all aspects of services computing and applications, current or emerging. Centered around services computing, it covers various systems and networking research pertaining to cloud, edge and Internet-of-Things (IoT), as well as technologies for intelligent computing, learning, Big Data and blockchain applications, addressing critical issues such as knowledge network, high performance, security, privacy, dependability, trustworthiness, and cost-effectiveness. Particularly, 2021 Congress will welcome papers on the impact of COVID-19 on services and corresponding infrastructure. In addition to colocated theme-topic conferences, the Congress will also include symposia and workshops supporting deep-dive discussions on emerging important topics, and complement the Congress program with industry and application presentations and panels. Authors are invited to prepare early and submit original papers to any of these conferences at www.easychair.org. All submitted manuscripts will be peer-reviewed by at least three reviewers through a rigorous double-blind review process. Accepted and presented papers will appear in the conference proceedings published by the IEEE Computer Society Press.

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, delivery, applications, and standards.

All topics relevant to Internet/Web based services are of interest. ICWS 2021 will organize refereed paper reviews in 7 research tracks:

- **Services Discovery, Selection & Recommendation**: Service publishing - Service search engine - Collaborative filtering - Service recommendation - Service reasoning - Machine learning powered service discovery
- **Services Composition**: Automatic service composition - Scientific workflows - Business process integration & management - Service coordination & cooperation - Service-based data integration - Data-driven service composition - Service orchestration & choreography for the future Internet
- **Services QoS Management**: Quality-of-Service (QoS) modeling and management - Service QoS evaluation & prediction - Autonomic services - Web services testing - Performance aspects of cloud and service virtualization - Service level agreements
- **Services Security, Privacy & Trust**: Internet service security - Privacy & trust - Dependable & secure services - Service auditing - Service policy control
- **Service Applications Beyond the Web**: Data-centric big services - Web services for Internet of Things - Social services - Cloud services - Mobile web services - Xaas (everything as a service) - Other applications
- **Semantic Service**: Semantic service modeling - Semantics-based service discovery - Semantics-based service composition
- **Service Oriented Software Engineering**: Service-Oriented Architecture (SOA) - Service specification & modeling - Service evolution - Service Oriented Software Engineering methodologies - Formal methods in services - Software engineering for adaptive service-oriented systems

**ICWS ORGANIZERS**
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**PAPER SUBMISSION INSTRUCTIONS**
Please visit https://conferences.computer.org/services/2021/cfp/callforpapers.html for paper format and paper submission instructions for conferences being held under the IEEE SERVICES Congress umbrella. The direct link for IEEE ICWS paper submission can be found here: https://easychair.org/conferences/?conf=ieeeicws2021

**CONTACT ICWS ORGANIZERS:**
ieecs DOT icws AT gmail DOT com

**IMPORTANT DATES**
- Early paper submission (optional): March 1, 2021
- Notification to early papers: April 1, 2021
- Normal paper submission due: April 15, 2021
- Rebuttal phase: June 1 - 7, 2021
- Final notification to authors: June 17, 2021
- Camera-ready paper due: July 1, 2021