



## International Conference on Cooperative Information Systems



3-7 October, 2022  
Bozen-Bolzano, Italy



### ABOUT CoopIS 2022

This 28<sup>th</sup> edition of **CoopIS**, Cooperative Information Systems, attempts to span a relevant range of the advanced research and cutting-edge development and application, happening in the general area of ubiquitous distributed computing. **CoopIS 2022**, invites fundamental contributions on principles and applications of distributed and collaborative computing in workflows of networked organizations, enterprises, governments of just communities.

Topic 1: Data, Information, and Knowledge Engineering  
Topic 2: Machine-Learning and Knowledge Discovery  
Topic 3: Process Analytics and Technology  
Topic 4: Semantic Interoperability and Open Standards  
Topic 5: Security and Privacy  
Topic 6: Internet of Things and Digital Twins  
Topic 7: Architecture and Management of ISs  
Topic 8: Human Aspects and Social Interaction in ISs  
Topic 9: Services and Cloud in Information Systems

In recent years, several innovative technologies have emerged: Cloud Computing, Service Oriented Computing, the Internet of Things, Linked Open Data, Semantic Systems, Collective Awareness Platforms, Block Chain, Processes as a Service, etc, that enable the next generation of CISs. Research and industry developments are needed towards (a) the applicability and use of the innovative technologies, (b) approaches to develop CISs in particular catering towards the multitude of stakeholders involved in the development of cyber-social-physical systems, and (c) associated modelling techniques to express and analyse the different aspects of these systems in coherence.

### GENERAL CHAIRS

Hervé Panetto, University of Lorraine, Nancy, France  
Walid Gaaloul, IP Paris – Télécom SudParis, France

### PROGRAM COMMITTEE CHAIRS

Hajo A. Reijers, Utrecht University, Netherlands.  
Paolo Ceravolo, Università degli Studi di Milano, Italy.



<https://coopisconference.org/>

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### ABOUT EDOC 2022

**EDOC 2022** is the 26<sup>th</sup> conference in the EDOC series that provides a key forum for researchers and practitioners in the field of Enterprise Computing. EDOC addresses the full range of models, methodologies, and engineering technologies contributing to building and evolving intra- and inter-enterprise software systems. From 2022 on, EDOC will be spelled out "Enterprise Design, Operations and Computing" to reflect the broad range of aspects of interest to the conference. **EDOC 2022** calls for contributions with a special emphasis on the theme of designing and operating "Flexible Enterprises". This year's theme reflects an ever-changing world under the influence of disruptive events, trends, and technologies, as well as the increasing role of artificial intelligence.

Topic 1: Enterprise and Systems Architecture  
Topic 2: Service-Oriented IT- and Enterprise Architectures  
Topic 3: Software Architecture & Engineering  
Topic 4: Model Based Enterprise Engineering  
Topic 5: Model-driven architectures and software development  
Topic 6: Enterprise Security  
Topic 7: Business Process and Business rules  
Topic 8: Semantics and Information Management

In this context, new concepts and approaches are required: (a) to address pressing challenges in domains like healthcare, advanced manufacturing, finance, environmental management and sustainable agriculture, supply chain management and others, while ensuring compliance with ethical and legal principles, as well as long-term interoperability and resilience of enterprise systems; and (b) to leverage technologies such as digital twins, machine learning, IoT, big data analytics, distributed ledgers/blockchain in trusted enterprise practices.

### GENERAL CHAIRS

Giancarlo Guizzardi, Free University of Bozen-Bolzano - Italy,  
University of Twente - The Netherlands  
Marco Montali, Free University of Bozen-Bolzano - Italy  
Fabrizio Maria Maggi, Free University of Bozen-Bolzano - Italy

### PROGRAM COMMITTEE CHAIRS

João Paulo A. Almeida, Federal University of Espírito Santo - Brazil  
Dimka Karastoyanova, University of Groningen - The Netherlands



<http://edocconference.org/2022/>

### Keynotes

CoopIS Keynote Speaker		CoopIS/EDOC joint Keynote Speaker	EDOC Keynote Speakers	
<b>Daniel R. Isaacs</b> <b>CTO, Digital Twin Consortium</b>  Understanding the Nature of Digital Twin Digital Twin Challenges & Values; Empowering Businesses		<b>Stephen Mellor</b> <b>CTO, Industry IoT Consortium</b>  Trustworthiness in Industrial IoT Systems: trends and issues for the future Collaborative and Computing Enterprise	<b>Jordi Cabot</b> <b>Research Professor, ICREA</b>  Title to be confirmed	<b>Carliss Y. Baldwin</b> <b>William L. White Professor of Business Administration, Emerita, Harvard Business School</b>  Title to be confirmed

### Supports