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Service-Oriented Computing – ICSOC 2020 Workshops

AIOps, CFTIC, STRAPS, AI-PA, AI-IOTS, and Satellite Events
Dubai, United Arab Emirates, December 14–17, 2020
Proceedings

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ISSN 0302-9743 ISSN 1611-3349 (electronic)
Lecture Notes in Computer Science
ISBN 978-3-030-76351-0 ISBN 978-3-030-76352-7 (eBook)
<https://doi.org/10.1007/978-3-030-76352-7>

LNCS Sublibrary: SL2 – Programming and Software Engineering

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The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface

This volume presents the proceedings of the scientific satellite events that were held in conjunction with the 18th International Conference on Service-Oriented Computing (ICSOC 2020), held virtually during December 14–17, 2020. The satellite events provide an engaging space for specialist groups to meet, generating focused discussions on specific sub-areas within service-oriented computing, which contributes to ICSOC community-building. These events significantly helped enrich the main conference by both expanding the scope of research topics and attracting participants from a wider community.

As is customary for ICSOC, this year, these satellite events were organized around three main tracks, comprising a workshop track, a PhD symposium track, and a demonstration track.

The ICSOC 2020 workshop track consisted of the following five workshops covering a wide range of topics that fall into the general area of service computing.

- International Workshop on Artificial Intelligence for IT Operations (AIOps 2020)
- International Workshop on Cyber Forensics and Threat Investigations Challenges in Emerging Infrastructures (CFTIC 2020)
- 2nd Workshop on Smart Data Integration and Processing (STRAPS 2020)
- International Workshop on AI-enabled Process Automation (AI-PA 2020)
- International Workshop on Artificial Intelligence in the IoT Security Services (AI-IOTS 2020)

This year in the workshop track, the theme of artificial intelligence and its applications in service computing was particularly noticeable. All papers accepted to the workshops were peer reviewed and overall acceptance rates for the workshops were less than 50%. The workshops were held on December 14, 2020, and included keynote talks from prominent speakers from industry and academia.

The PhD symposium is an international forum for PhD students to present, share, and discuss their research in a constructive and critical atmosphere. It also provides students with fruitful feedback and advice on their research approach and thesis. The PhD symposium track was held over a half-day session and included nine accepted papers. This year, and due to COVID-19, the conference supported all PhD students and their participation was fully free of charge.

The demonstration track offers an exciting and highly interactive way to show research prototypes/work in service-oriented computing and related areas. The demonstration track was held over a two-hour session for the presentations and then dedicated sessions for real-time demonstrations, running in parallel. Four demonstrations were accepted and presented during the conference.

We would like to thank the workshops, PhD symposium, and demonstration track authors, as well as the Organizing Committees, who together contributed to these important events of the conference. We hope that these proceedings will serve as a

valuable reference for researchers and practitioners working in the service-oriented computing domain and its emerging applications.

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International Workshop on Artificial Intelligence for IT Operations (AIOps)

Organizers

Odej Kao	TU Berlin, Germany
Jorge Cardoso	Huawei, Germany

International Workshop on Cyber Forensics and Threat Investigations Challenges in Emerging Infrastructures (CFTIC 2020)

Organizers

John William Walker	Nottingham Trent University, UK
Ahmed Elmesiry	University of South Wales, UK

2nd Workshop on Smart Data Integration and Processing (STRAPS 2020)

Organizers

Genoveva Vargas-Solar	CNRS, France
Nadia Bennani	INSA Lyon, France
Chirine Ghedira Guegan	University Lyon 3, France

International Workshop on AI-enabled Process Automation (AI-PA 2020)

Organizers

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Boualem Benatallah	University of New South Wales, Australia
Ladjel Bellatreche	Poitiers University, France
Francois Charoy	Inria-Loriria, France
Hamid Motahari	EY, USA
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International Workshop on Artificial Intelligence in the IoT Security Services (AI-IOTS 2020)

Organizers

S. Selvakumar	Indian Institute of Information Technology Una, India
R. Kanchana	SSN College of Engineering, India

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