6th International Conference on Complexity, Future Information Systems and Risk (COMPLEXIS 2021)

Online 24 – 25 April 2021

Editors:

Reinhold Behringer Victor Chang

ISBN: 978-1-7138-3982-8

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by SCITEPRESS – Science and Technology Publications, Lda. All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact SCITEPRESS – Science and Technology Publications, Lda. at the address below.

SCITEPRESS – Science and Technology Publications, Lda. Avenida de S. Francisco Xavier, Lote 7 Cv. C, 2900-616 Setúbal, Portugal

Phone: +351 265 520 185 Fax: +351 265520 186

info@scitepress.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

CONTENTS

INVITED SPEAKERS

KEYNOTE SPEAKERS

Secure Object Detection on the Edge Ling Liu	5
Interpretability and Explainability Facets of Data Analytics: Symbols and Information Granules <i>Witold Pedrycz</i>	7
PAPERS	
FULL PAPERS	
Complexity Measures for the Analysis of SDG Interlinkages: A Methodological Approach Gabriel Pereira, Arturo Gonzalez and Gerardo Blanco	13
Structural Similarities of Emotion-exchange Networks: Evidence from 18 Crisis Events <i>Ema Kušen and Mark Strembeck</i>	25
Artificial Neural Networks Jamming on the Beat Alexey Tikhonov and Ivan P. Yamshchikov	37
SHORT PAPERS	
ECGraph: A Complex Networks Tool to Classify Critical Points of Ecological Corridors Gianni Fenu and Enrico Podda	47
Integrating Distributed Tracing into the Narayana Transaction Manager Miloslav Žežulka, Ondřej Chaloupka and Bruno Rossi	55
Co-simulation of Smart Grids: Dynamically Changing Topologies in Failure Scenarios Lukáš Gryga and Bruno Rossi	63
Complex Skills Development through Digital Qualification Assessment: Survey Study for European and Oriental Languages Programs <i>Rusudan Makhachashvili, Ivan Semenist and Anna Bakhtina</i>	70
Distributed Strategies and Managements based on State Constraint Logic with Predicate for Communication Susumu Yamasaki and Mariko Sasakura	78
Entropy Map Might Be Chaotic Junping Hong and Wai Kin (Victor) Chan	86
Critical Overview of the Use of Contact Tracing Apps in the Context of the COVID-19 Pandemic Arturo González, Christian von Lücken, Julio Paciello, Tito Ocampos and Juan Pane	91
Social Complex Systems as Multiscale Phenomena: From the Genome to Animal Societies <i>Ilvanna Salas and Sebastián Abades</i>	100
Complex Framework of Digital Learning Quality Assessment in Covid-19 Context: Survey Study for European and Oriental Languages Programs <i>Rusudan Makhachashvili and Ivan Semenist</i>	107

Food Recommendation in a Worksite Canteen	117
Vincenza Carchiolo, Marco Grassia, Alessandro Longheu, Michele Malgeri and Giuseppe Mangioni	

AUTHOR INDEX