4th European Conference on the Impact of Artificial Intelligence and Robotics (ECIAIR 2022)

Oxford, United Kingdom 1 – 2 December 2022

ISBN: 978-1-7138-8458-3

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 The Authors, (2022). All Rights Reserved. No reproduction, copy or transmission may be made without written permission from the individual authors.

Printed with permission by Curran Associates, Inc. (2024)

Review Process

Papers submitted to this conference have been double-blind peer reviewed before final acceptance to the conference. Initially, abstracts were reviewed for relevance and accessibility and successful authors were invited to submit full papers. Many thanks to the reviewers who helped ensure the quality of all the submissions.

Ethics and Publication Malpractice Policy

ACPIL adheres to a strict ethics and publication malpractice policy for all publications – details of which can be found here:

http://www.academic-conferences.org/policies/ethics-policy-for-publishing-in-the-conference-proceedings-of-academicconferences-and-publishing-international-limited/

Conference Proceedings

The Conference Proceedings is a book published with an ISBN and ISSN. The proceedings have been submitted to a number of accreditation, citation and indexing bodies including Thomson ISI Web of Science and Elsevier Scopus.

Author affiliation details in these proceedings have been reproduced as supplied by the authors themselves.

Published by Academic Conferences and Publishing International Ltd. 33 Wood Lane Sonning Common RG4 9SJ UK

Phone: 441 189 724 148 Fax: 441 189 724 691 info@academic-conferences.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

TABLE OF CONTENTS

Preparing Psychologists and Social Workers for the Daily Use of AI	1
Sentiment Analysis for Emotional Navigation in Written Communication: What Support Do Autistic People Need?	6
S. Bergman, N. Humble	
A Framework for Auditing Multilevel Models Using Explainability Methods	12
Ethical and Legal Limits to the Diffusion of Self-Produced Autonomous Weapons	22
Suggestions for a Revision of the European Smart Robot Liability Regime	29
ENSIGHTS: Intelligent Monitoring of Electric Power Transmission Assets	36
An Outlook of Digital Twins in Offensive Military Cyber Operations	45
Narratives that Speak AI Lingua? AI Vocabulary in Listed Companies' Annual Reports	54
Would You Like to Have Your Social Skills Assessed by a Softbot? – AI-Supported Recruitment Processes	64
P. Mozelius, A. Jama, A. Castberg	
Ethics and Accountability of Care Robots	72
Dark Patterns and Epistemic Ignorance: An Educational Crisis	78
A Roadmap to Artificial Intelligence: Navigating Core Impacts to Successfully Transform Organisations	85
Action Rule Mining with Predications on Semantic Representations of Data	93
Politicians and Artificial Intelligence Refusal: Brief Considerations	100
A Conceptual Decision Tree for the Automation of Architecture Applied to Housing	108
Hey Siri: Exploring the Effect of Voice Humanity on Virtual Assistant Acceptance	118

Value Co-Destruction in Digital Banking Transformation: Research Propositions	
Challenges and Opportunities: The Case for New Technologies' Implementation in Romania	
An Integrative Literature Review on Leadership and Organizational Readiness for AI	
Assessment of Innovation Readiness and Technology Acceptance Using Immersive Sci-Fi	
Prototyping	
F. Brunner, T. Keller, E. Brucker-Kley	
The Automation of Computer Vision Applications for Real-Time Combat Sports Video Analysis	
Activity Theory Analysis of RPA and Workforce in Financial Institutions	

Author Index