The International Workshop on Requirements Engineering for Artificial Intelligence (RE4AI 2020)

Renata Guizzardi
Federal University of Espírito Santo
Brazil
rguizzardi@inf.ufes.br

Jennifer Horkoff
Chalmers | University of Gothenburg
Sweden
jennifer.horkoff@gu.se

Anna Perini and Angelo Susi
FBK, Center for Information
and Communication Technology - ICT
Italy
{perini,susi}@fbk.eu

1 Preface

It is our pleasure to welcome you to the first edition of the International Workshop on Requirements Engineering for Artificial Intelligence (RE4AI'20), held in conjunction with the 26th Working Conference on Requirements Engineering (REFSQ'20), in the city of Pisa, Italy.

RE4AI aims to provide a forum for discussing how Requirements Engineering methods, techniques and tools may be used to support the development of Artificial Intelligence systems that are lawful, ethical and robust. The main goals of the RE4AI workshop are as follows:

- raising awareness in the RE community about the importance of RE in realizing Trustworthy AI systems;

- bringing in the same room people from AI and RE industry and academia to discuss pressing issues, such as how RE can contribute to prevent AI systems to fail or to go rogue;

- setting up the basis for collaboratively producing a report on the challenges, candidate solution paths, and research priorities regarding RE4AI;

- motivating cross fertilization between AI and RE research.

Recognizing that the use of Requirements Engineering in Artificial Intelligence is still is its early days, our call for papers requested only short papers for this first RE4AI edition. We received 7 papers, from which 6 were accepted. Each of the submitted papers had at least three reviews from our program committee. We tried to be comprehensive, accepting all papers that were well written, touched on relevant topics and proposed valuable research directions.

The workshop comprises two sessions, the first one completely dedicated to paper presentation. The second session starts with paper presentation, followed by an interactive discussion, where the participants may share their ideas on the emerging topics and on how to tackle some of the problems identified in the workshop's research field.

2 Program Committee

- Amel Bennaceur, The Open University, United Kingdom

- Fernando Buarque, University of Pernambuco, Brazil

- Paolo Busetta, Independent consultant, Italy

- Fabiano Dalpiaz, Utrecht University, The Netherlands

- Chiara Di Francescomarino, ICT-FBK, Italy

- Joerg Doerr, Fraunhofer IESE, Germany

- Marco Gori, University of Siena, Italy

- Giancarlo Guizzardi, Free University of Bolzano, Italy

- Eric Knauss, University of Gothenburg, Sweden

- Zhi Jin, Peking University, China

- Lin Liu, Tsinghua University, China

- John Mylopoulos, University of Ottawa, Canada

- Daniele Porello, Istc-Cnr, Italy

- Oliviero Stock, Fondazione Bruno Kessler, Trento, Italy

- Andreas Vogelsang, TU-Berlin, Germany

3 Papers Accepted for Presentation at RE4AI 2020

[V]	Matthieu Vergne. Trustworthy AI: Towards the Golden Age of RE?
[DBC]	Johnathan DiMatteo, Daniel Berry, and Krzysztof Czarnecki. Requirements for Monitoring Inattention of the Responsible Human in an Autonomous Vehicle: The Recall and Precision Tradeoff
[BAD+]	Paolo Busetta, Maurizio Astegher, Daniele Dellagiacoma, Stefano Gabrielli, Matteo Longato, and Matteo Pedrotti. Artificial Actor Behaviours for Interactive Videos: Handling AI Requirements in ELEVATE
[LM]	James Lockerbie, and Neil Maiden. Using a Requirements Modelling Language to Co-Design Intelligent Support for People Living with Dementia
[KGW]	Blagovesta Kostova, Seda Gurses, and Alain Wegmann. On the Interplay between Requirements, Engineering, and Artificial Intelligence
[KF]	Hermann Kaindl, and Jonas Ferdigg. Towards Requirements Engineering for Superintelligence Safety