

Preface

This volume contains the papers presented at the 2nd European Workshop on Algorithmic Fairness (EWAF23) held on June 7–9, 2023 in Winterthur, Switzerland. The purpose of the EWAF workshop series is to provide a venue for research and multidisciplinary dialogue between researchers working on algorithmic fairness in the context of Europe’s legal and societal framework, especially in light of the European Union’s attempts to promote ethical AI.

The contributions to EWAF23 mainly address the following topics:

- Empirical and theoretical perspectives from social sciences on algorithmic fairness and discrimination in Europe.
- Case studies based on concrete European instances of algorithmic design and regulation.
- Analyses of the implications of the European legislative framework on fairness in machine learning and AI.
- Fair algorithm development and algorithmic fairness evaluation (e.g., fairness metrics, methods for qualitative evaluations, bias mitigation techniques, data collection, causality).
- Philosophy (e.g., values embedded in fairness metrics, foundations of ethical AI).
- Social sciences (e.g., historical perspectives on discrimination, impact of algorithms on marginalized groups, perceptions of (un)fairness, AI and labor).
- Policy and law (e.g., non-discrimination law, data protection law, accountability, regulation of bias checks).

We received 62 submissions of original papers presenting novel research results as well as extended abstracts containing descriptions of ongoing projects or summarizing already published results. The Program Committee (PC) was divided into four areas, i.e. Computer Science, Law and Policy, Philosophy, and Social Sciences. Each submission was reviewed by at least two PC members and one Area Chair. The reviewers looked at originality, technical quality, clarity of presentation, potential impact, and European specificity. Finally, the committee decided to accept 51 papers for presentation at the workshop and subsequent publication.

Alongside these peer-reviewed contributions, we were honored to have three keynote talks, namely “*Bias bias, and other biases*” by Arvind Narayanan (Princeton University, US), “Fairness in ranking: From values to technical choices and back” by Meike Zehlike (Zalando, Berlin, Germany), and “Fixing AI?” by Gianclaudio Malgieri (Leiden University, the Netherlands). Additionally, we hosted a panel discussion “Governing AI – the European edition: Values, legitimacy, and practical implementation” with Diana Vlad-Calci (European Commission), Sergey Lagodinsky (MEP Greens), and Agathe Balayn (Delft University of Technology), moderated by Angela Müller (AlgorithmWatch). Finally, we had two interactive sessions: (1) “Data Access for Researchers in the context of the Digital Services Act: technical and scientific considerations” organized by João Vinagre (Joint Research Centre - JRC), Lorenzo Porcaro (JRC), and Emilia Gómez (JRC), and (2) “Lost in translation? How computer science and philosophy reflect local morals and societal peculiarities” organized by Michele Loi (Polytechnic University of Milan).

Workshop organizers:

Jose M. Alvarez, *Scuola Normale Superiore, Pisa*

Alessandro Fabris, *Max Planck Institute for Security and Privacy*

Christoph Heitz, *Zurich University of Applied Sciences*

Corinna Hertweck, *Zurich University of Applied Sciences and University of Zurich*

Michele Loi, *Polytechnic University of Milan*

Meike Zehlike, *Zalando, Berlin*

General Chairs

- Christoph Heitz, Zurich University of Applied Sciences
- Michele Loi, Polytechnic University of Milan
- Corinna Hertweck, Zurich University of Applied Sciences and University of Zurich

Program Chairs

- Alessandro Fabris, Max Planck Institute for Security and Privacy
- Meike Zehlike, Zalando
- Jose M. Alvarez, Scuola Normale Superiore

Area Chairs

Computer Science

- Patrick Loiseau, INRIA
- Asia J. Biega, Max Planck Institute for Security and Privacy
- Celestine Mendler-Dünnér, Max Planck Institute for Intelligent Systems
- Yashar Deldjoo, Polytechnic University of Bari
- Alessandro Fabris, Max Planck Institute for Security and Privacy

Law and Policy

- Aurelia Tamò-Larrieux, Maastricht University
- Eduard Fosch Villaronga, Leiden University
- Isabelle Wildhaber, University of St. Gallen

Philosophy

- Kasper Lippert-Rasmussen, University of Aarhus
- Sune Holm, University of Copenhagen
- Rafal Urbaniak, University of Gdansk
- Joanna Malinowska, Adam Mickiewicz University
- Michele Loi, Polytechnic University of Milan

Social Sciences

- Orestis Papakyriakopoulos, Sony AI
- Ulrich Leicht-Deobald, Trinity College Dublin
- Paolo Bory, Polytechnic University of Milan
- Philip Di Salvo, University of St. Gallen
- Diletta Huyskes, University of Milan

Sponsorship chairs

- Christoph Heitz, Zurich University of Applied Sciences
- Michele Loi, Polytechnic University of Milan
- Corinna Hertweck, Zurich University of Applied Sciences and University of Zurich
- Meike Zehlike, Zalando
- Jose M. Alvarez, Scuola Normale Superiore

Proceedings chairs

- Alessandro Fabris, Max Planck Institute for Security and Privacy
- Daniel Anadria, Utrecht University
- Sami Zhioua, INRIA

Publicity chairs

- Jose M. Alvarez, Scuola Normale Superiore
- Meirav Segal, University of Oslo
- Corinna Hertweck, Zurich University of Applied Sciences and University of Zurich

Program Committee

- Gandini Alessandro, University of Milan
- Ruta Binkyte-Sadauskiene, Inria, Ecole Polytechnique
- Ludovico Boratto, University of Cagliari
- Rémi Castera, University Grenoble Alpes
- Francisco Castillo-Eslava, University of Granada
- Bartłomiej Chomański, Adam Mickiewicz University
- Riccardo Crupi, Intesa San Paolo
- Andreia Deoliveira, University of St.Gallen
- Marcello Di Bello, Arizona State University
- Florian Dorner, Max-Planck-Institut für Intelligente Systeme, Tübingen;
ETH Zürich
- Isabel Ebert, University of St.Gallen
- Severin Engelmann, TU Munich
- Simone Fabbrizzi, Centre for Research & Technology Hellas
- Felipe Garrido Lucero, Université Paris Dauphine
- Nina Grgic-Hlaca, Max Planck Institute for Software Systems (MPI-SWS)
- David Hadwick, University of Antwerpen
- Holly Hoch, University of St.Gallen
- Kasra Hosseini, Zalando
- Mingya Jiang, Maastricht University
- Vijay Keswani, Yale University
- Till Kletti, NaverLabs Europe
- Henning Lahmann, Leiden University
- Preethi Lahoti, Google
- Ayan Majumdar, Max Planck Institute for Software Systems
- Gianclaudio Malgieri, Leiden University
- Masoud Mansoury, University of Amsterdam

- Simon Mauras, IRIF
- Carmen Mazijn, Vrije Universiteit Brussel
- Alan Mishler, JP Morgan
- Mathieu Molina, Inria
- Stephan Mulders, Maastricht University
- Mohammadmehdi Naghiaei, University of Southern California
- Francesco Nappo, Polytechnic University of Milan
- Eva Nave, Leiden University
- Straton Papagianneas, Leiden University
- Eike Petersen, Technical University of Denmark
- Tjaša Petročnik, Tilburg University
- Oriane Pierrès, Zurich University of Applied Sciences
- Lorenzo Porcaro, European Centre for Algorithmic Transparency, JRC-EC
- Sandro Radovanović, University of Belgrade
- Hossein A. Rahmani, University College London
- Carlotta Rigotti, Leiden University
- Marco Rondina, Politecnico di Torino
- Samira Samadi, Max Planck Institute for Intelligent Systems
- Vageesh Saxena, Maastricht University
- Alan Sears, Leiden University
- Meirav Segal, University of Oslo
- Laura State, University of Pisa
- Ana-Andreea Stoica, Columbia University
- Tom Sühr, Max Planck Institute for Intelligent Systems
- William Thong, Sony AI
- Chiara Ullstein, Technical University Munich
- Antonio Vetrò, Politecnico di Torino

- Haolun Wu, McGill University
- Iris Xu, Maastricht University
- Wen-Ting Yang, Maastricht University
- Muhammad Bilal Zafar, AWS