

2018 ACM/IEEE International Workshop on Software Fairness FairWare 2018

Table of Contents

Message from the ICSE 2018 General Chair	vii
Message from the FairWare 2018 Chairs	x
Organizing Committee for FairWare 2018	xi
Program Committee for FairWare 2018	xii
ICSE 2018 Sponsors and Supporters	xv

Fairness Definitions and Guarantees

Fairness Definitions Explained	1
<i>Sahil Verma (Indian Institute of Technology Kanpur) and Julia Rubin (University of British Columbia)</i>	

Society and Ethics

Integrating Social Values into Software Design Patterns	8
<i>Waqar Hussain (Monash University), Davoud Mougouei (Monash University), and Jon Whittle (Monash University)</i>	
A Roadmap for Ethics-Aware Software Engineering	15
<i>Fatma Basak Aydemir (Utrecht University) and Fabiano Dalpiaz (Utrecht University)</i>	

Methods and Applications

Model-Based Discrimination Analysis: A Position Paper	22
<i>Qusai Ramadan (University of Koblenz-Landau), Amir Shayan Ahmadian (University of Koblenz-Landau), Daniel Strüßer (University of Koblenz-Landau), Jan Jürjens (University of Koblenz-Landau), and Steffen Staab (University of Koblenz-Landau)</i>	
On Fairness in Continuous Electronic Markets	29
<i>Hayden Melton (Thomson Reuters)</i>	
Avoiding the Intrinsic Unfairness of the Trolley Problem	32
<i>Tobias Holstein (Mälardalen University) and Gordana Dodig-Crnkovic (Chalmers University of Technology)</i>	

Fairness Standards

IEEE P7003TM Standard for Algorithmic Bias Considerations	38
<i>Ansgar Koene (University of Nottingham), Liz Dowthwaite (University of Nottingham), and Suchana Seth (Harvard University)</i>	
Author Index	43