

Contents

Part I Introduction

- 1 The Interaction of Artificial Intelligence and Legal Regulations: Social and Economic Perspectives** 3
Muharrem Kılıç and Sezer Bozkuş Kahyaoğlu

Part II Prohibition of Discrimination in the Age of Artificial Intelligence

- 2 Socio-political Analysis of AI-Based Discrimination in the Meta-surveillance Universe** 17
Muharrem Kılıç
- 3 Rethinking Non-discrimination Law in the Age of Artificial Intelligence** 33
Selin Çetin Kumkumoğlu and Ahmet Kemal Kumkumoğlu
- 4 Regulating AI Against Discrimination: From Data Protection Legislation to AI-Specific Measures** 55
Ahmet Esad Berктаş and Saide Begüm Feyzioğlu
- 5 Can the Right to Explanation in GDPR Be a Remedy for Algorithmic Discrimination?** 69
Tamer Soysal

Part III Evaluation of Artificial Intelligence Applications in Terms of Criminal Law

- 6 Sufficiency of Struggling with the Current Criminal Law Rules on the Use of Artificial Intelligence in Crime** 93
Olgun Değirmenci

7	Prevention of Discrimination in the Practices of Predictive Policing	105
	Murat Volkan Dülger	
8	Issues that May Arise from Usage of AI Technologies in Criminal Justice and Law Enforcement	119
	Benay Çaylak	
 Part VI Evaluation of the Interaction of Law and Artificial Intelligence Within Different Application Areas		
9	Artificial Intelligence and Prohibition of Discrimination from the Perspective of Private Law	135
	Ş. Barış Özçelik	
10	Legal Challenges of Artificial Intelligence in Healthcare	147
	Merve Ayşegül Kulular İbrahim	
11	The Impact of Artificial Intelligence on Social Rights	161
	Cenk Konukpay	
12	A Review: Detection of Discrimination and Hate Speech Shared on Social Media Platforms Using Artificial Intelligence Methods	171
	Abdülkadir Bilen	
13	The New Era: Transforming Healthcare Quality with Artificial Intelligence	183
	Didem İncegil, İbrahim Halil Kayral, and Figen Çizmeci Şenel	
14	Managing Artificial Intelligence Algorithmic Discrimination: The Internal Audit Function Role	203
	Lethiwe Nzama-Sithole	
	Author Index	221
	Subject Index	223