

Contents

Acknowledgments 7

Introduction: Trust, Responsibility, and Digital Governance
Sebastian B cker, Marcus D well, Andreas Kaminski, Michael Leyer 9

I. Capacities That Enable Digital Governance

Trust and Responsibility
Digital Systems from a Capacity-Based Perspective
Andreas Kaminski, Marcus D well, Philipp Richter 19

Precautions for Medical Decision Support by LLMs
Sebastian B cker, Nico Form nek 43

Individual and Organisational Capacities for Assessing “Trustworthiness” of AI Systems in Healthcare Settings
The Crucial Role of Structural Empowerment
Oliver Behn, Marc Jungt ubl, Michael Leyer, Mascha Will-Zocholl 61

II. Governance That Enables Understanding

Right to Explanation of AI Decisions
Elena Dubovitskaya, Gregor Bosold 91

Cross-Chain Governance
Florian M slein, Michael Birkner 113

Blockchain-Based Governance of Financial Markets

Examining the SEC’s Approach to Building Trust in Centralized and Decentralized Crypto Exchanges

Sebastian Omlor, Hans Wilke133

III. Enabling Conditions for Trust and Responsibility

Ethics and Regulation of AI Systems in Medicine

The Example of Cancer Detection

Sebastian Bartsch, Marcus Düwell, Jan-Hendrik Schmidt, Alexander Benlian153

Trust in AI: A Unified Approach

Andreas Kaminski171

Explainable AI as a Component of Building Trust

The Case of Regulating Creditscoring

Katja Langenbucher189

“Trust” and “Trustworthiness” in the AI Act

Lucia Franke, Benjamin Müller.....207

Appendix

Author Profiles223