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	Nota di contenuto	Intro -- Contents -- List of Figures -- 1 About the Book -- 1.1 Authors -- 1.2 Structure of the Book -- 2 What Is AI? -- 2.1 Introduction to AI -- 2.1.1 The Turing Test -- 2.1.2 Strong and Weak AI -- 2.1.3 Types of AI Systems -- 2.2 What Is Machine Learning? -- 2.3 What Is a Robot? -- 2.3.1 Sense-Plan-Act -- 2.3.2 System Integration. Necessary but Difficult -- 2.4 What Is Hard for AI -- 2.5 Science and Fiction of AI -- 3 What Is Ethics? -- 3.1 Descriptive Ethics -- 3.2 Normative Ethics -- 3.2.1 Deontological Ethics -- 3.2.2 Consequentialist Ethics -- 3.2.3 Virtue Ethics -- 3.3 Meta-ethics -- 3.4 Applied Ethics -- 3.5 Relationship Between Ethics and Law -- 3.6 Machine Ethics -- 3.6.1 Machine Ethics Examples -- 3.6.2 Moral Diversity and Testing -- 4 Trust and Fairness in AI Systems -- 4.1 User Acceptance and Trust -- 4.2 Functional Elements of Trust -- 4.3 Ethical Principles for Trustworthy and Fair AI -- 4.3.1 Non-maleficence -- 4.3.2 Beneficence -- 4.3.3 Autonomy -- 4.3.4 Justice -- 4.3.5 Explicability -- 4.4 Conclusion -- 5 Responsibility and Liability in the Case of AI Systems

| Sommario/riassunto | This open access book introduces the reader to the foundations of AI and ethics. It discusses issues of trust, responsibility, liability, privacy and risk. It focuses on the interaction between people and the AI systems and Robotics they use. Designed to be accessible for a broad audience, reading this book does not require prerequisite technical, legal or philosophical expertise. Throughout, the authors use examples to illustrate the issues at hand and conclude the book with a discussion on the application areas of AI and Robotics, in particular autonomous vehicles, automatic weapon systems and biased algorithms. A list of questions and further readings is also included for students willing to explore the topic further. |