

Generative Artificial Intelligence and Ethics: Standards, Guidelines, and Best Practices

Part of the Advances in Computational Intelligence and Robotics Book Series

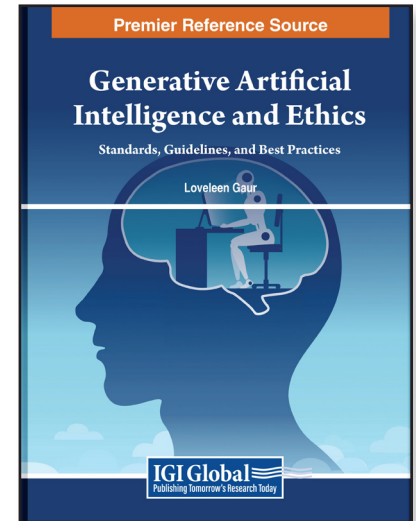
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Description:

The rapid advancement of generative artificial intelligence (AI) has brought about significant ethical challenges. As machines become more adept at creating human-like content, concerns about misuse, bias, privacy, and accountability have emerged. Without clear guidelines and regulations, there is a risk of unethical use, such as creating deepfake videos or disseminating misinformation, which could have severe societal consequences. Additionally, questions about intellectual property rights and the ownership of AI-generated creations still need to be solved, further complicating the ethical landscape.

The book, *Generative Artificial Intelligence and Ethics: Standards, Guidelines, and Best Practices*, comprehensively solves these ethical challenges. By providing insights into the historical development and key milestones of Generative AI, the book lays a foundation for understanding its complex ethical implications. It examines existing ethical frameworks and proposes new ones tailored to AI's unique characteristics, helping readers apply traditional ethics to AI development and deployment.

The book equips readers with the knowledge and tools needed to address these ethical considerations in AI development through in-depth discussions on bias, fairness, privacy, and security. It also explores the role of education in fostering responsible AI practices. It offers practical guidelines for ethical decision-making throughout the AI lifecycle. By promoting ethical awareness and providing actionable solutions, this book empowers readers to navigate the moral challenges of Generative AI, ensuring its responsible and beneficial use for society.



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Topics Covered:

- Bias and Fairness in Generative AI
- Ethical Decision-Making in AI Development
- Ethical Frameworks in AI
- Explainability and Transparency
- Future Trends and Challenges
- Global Perspectives on AI Ethics
- Historical Development and Key Milestones
- Human-AI Collaboration
- Privacy Challenges
- Public Perception and Trust
- Regulatory Landscape
- Security Implications
- Social Impact of Generative AI
- The Role of Education

Subject: Computer Science & Information Technology

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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