1.	Record Nr.	UNISA996547964703316
	Autore	Boddington Paula
	Titolo	AI ethics : a textbook / / Paula Boddington
	Pubbl/distr/stampa	Singapore : , : Springer, Springer Nature Singapore Pte Ltd., , [2023] ©2023
	ISBN	9789811993824 9789811993817
	Edizione	[1st ed. 2023.]
	Descrizione fisica	1 online resource (531 pages)
	Collana	Artificial Intelligence: Foundations, Theory, and Algorithms, , 2365-306X
	Disciplina	174.90063
	Soggetti	Artificial intelligence
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Chapter 1. Introduction: Why AI Ethics? -- Chapter 2. The Rise of AI Ethics -- Chapter 3. AI, Philosophy of Technology, and Ethics -- Chapter 4. Methods in Applied Ethics -- Chapter 5. Humans and Intelligent Machines: Underlying Values -- Chapter 6. Normative Ethical Theory and the Challenges from AI Ethics -- Chapter 7. Philosophy for AI Ethics: Metaethics, Metaphysics, and More -- Chapter 8. Persons and AI -- Chapter 9. Individuals, Society, and AI: Online Communication -- Chapter 10. Towards the Future with AI: Work and Superintelligence -- Chapter 11. Our Future with AI: Future Projections and Moral Machines.
	Sommario/riassunto	This book introduces readers to critical ethical concerns in the development and use of artificial intelligence. Offering clear and accessible information on central concepts and debates in AI ethics, it explores how related problems are now forcing us to address fundamental, age-old questions about human life, value, and meaning. In addition, the book shows how foundational and theoretical issues relate to concrete controversies, with an emphasis on understanding how ethical questions play out in practice. All topics are explored in depth, with clear explanations of relevant debates in ethics and philosophy, drawing on both historical and current sources. Questions in AI ethics are explored in the context of related issues in technology, regulation, society, religion, and culture, to help readers gain a

nuanced understanding of the scope of AI ethics within broader debates and concerns. Written with both students and educators in mind, the book is easy to use, with key terms clearly explained, and numerous exercises designed to stretch and challenge. It offers readers essential insights into the evolving field of AI ethics. Moreover, it presents a range of methods and strategies that can be used to analyse and understand ethical questions, which are illustrated throughout with case studies.

2.	Record Nr.	UNINA9910783129203321
	Autore	Ben-Artzi Matania <1948->
	Titolo	Generalized Riemann problems in computational fluid dynamics / / Matania Ben-Artzi and Joseph Falcovitz [[electronic resource]]
	Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2003
	ISBN	1-107-12879-X
		1-280-41785-4
		9786610417858
		1-139-14635-1
		0-511-18055-1
		0-511-06675-9
		0-511-06044-0
		0-511-54678-5
		0-511-30754-3
		0-511-06888-3
	Descrizione fisica	1 online resource (xvi, 349 pages) : digital, PDF file(s)
	Collana	Cambridge monographs on applied and computational mathematics ; ; 11
	Disciplina	532/.05
	Soggetti	Fluid dynamics
		Riemann-Hilbert problems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
	Nota di bibliografia	Includes bibliographical references (p. 337-343) and index.
	Nota di contenuto	1. Introduction -- I. Basic theory -- 2. Scalar conservation laws -- 3. The GRP method for scalar conservation laws -- 4. Systems of

conservation laws -- 5. The Generalized Reimann Problem (GRP) for compressible fluid dynamics -- 6. Analytical and numerical treatment of fluid dynamical problems -- II. Numerical implementation -- 7. From the GRP algorithm to scientific computing -- 8. Geometric extensions -- 9. A physical extension: reacting flow -- 10. Wave interaction in a duct- a comparative study -- A. Entropy conditionsfor scalar conservation laws -- B. Convergence of godunov scheme -- C. Reimann solver for a y-law gas -- D. The MUSCL scheme.

Sommario/riassunto	Numerical simulation of compressible, inviscid time-dependent flow is a major branch of computational fluid dynamics. Its primary goal is to obtain accurate representation of the time evolution of complex flow patterns, involving interactions of shocks, interfaces, and rarefaction waves. The Generalized Riemann Problem (GRP) algorithm, developed by the authors for this purpose, provides a unifying 'shell' which comprises some of the most commonly used numerical schemes of this process. This 2003 monograph gives a systematic presentation of the GRP methodology, starting from the underlying mathematical principles, through basic scheme analysis and scheme extensions (such as reacting flow or two-dimensional flows involving moving or stationary boundaries). An array of instructive examples illustrates the range of applications, extending from (simple) scalar equations to computational fluid dynamics. Background material from mathematical analysis and fluid dynamics is provided, making the book accessible to both researchers and graduate students of applied mathematics, science and engineering.