1. Record Nr.   UNISOBSOBE00031650

Record Nr.	UNISOBSOBE00031650
Autore	GIORDANO, Mario_Gabriele
Titolo	"... Forse cui Guido vostro ebbe a disdegno" : proposta di interpretazione del verso X, 63 dell'Inferno dantesco / Mario Gabriele Giordano
Pubbl/distr/stampa	Napoli : Istituto editoriale del Mezzogiorno, 1971
Descrizione fisica	7-10 p. ; 27 p.
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Estratto da : Nostro Tempo, anno XX, n.ri 1-2-3 (Gennaio-Marzo 1971)

2.

Record Nr.	UNICAMPANIASUN0091497
Titolo	Control of partial differential equations : Cetraro, Italy 2010 / Alabau-Boussouira ... [et al.] ; Piermarco Cannarsa, Jean-Michel Coron editors
Pubbl/distr/stampa	XIII, 344 p., : ill. ; 24 cm
Edizione	[Berlin : Springer, 2012]
Descrizione fisica	Pubblicazione in formato elettronico
Soggetti	35B35 - Stability in context of PDEs [MSC 2020] 93Cxx - Model systems in control theory [MSC 2020] 93Bxx - Controllability, observability, and system structure [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

3.	Record Nr.	UNINA9910768197303321
	Autore	Friedland Gerald
	Titolo	Information-Driven Machine Learning : Data Science as an Engineering Discipline / / by Gerald Friedland
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
	ISBN	3-031-39477-1
	Edizione	[1st ed. 2024.]
	Descrizione fisica	1 online resource (281 pages)
	Disciplina	006.31
	Soggetti	Artificial intelligence - Data processing
		Machine learning
		Data structures (Computer science)
		Information theory
		Expert systems (Computer science)
		Artificial intelligence
		Data Science
		Machine Learning
		Data Structures and Information Theory
		Knowledge Based Systems
		Artificial Intelligence
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Preface -- 1 Introduction -- 2 The Automated Scientific Process -- 3 The (Black Box) Machine Learning Process -- 4 Information Theory -- 5 Capacity -- 6 The Mechanics of Generalization -- 7 Meta-Math: Exploring the Limits of Modeling -- 8 Capacity of Neural Networks -- 8 Capacity of Neural Networks -- 10 Capacities of some other Machine Learning Methods -- 11 Data Collection and Preparation -- 12 Measuring Data Sufficiency -- 13 Machine Learning Operations -- 14 Explainability -- 15 Repeatability and Reproducibility -- 16 The Curse of Training and the Blessing of High Dimensionality -- 16 The Curse of Training and the Blessing of High Dimensionality -- Appendix A Recap: The Logarithm -- Appendix B More on Complexity -- Appendix C Concepts Cheat Sheet -- Appendix D A Review Form that Promotes

Reproducibility -- List of Illustrations -- Bibliography.

Sommario/riassunto	This groundbreaking book transcends traditional machine learning approaches by introducing information measurement methodologies that revolutionize the field. Stemming from a UC Berkeley seminar on experimental design for machine learning tasks, these techniques aim to overcome the 'black box' approach of machine learning by reducing conjectures such as magic numbers (hyper-parameters) or model-type bias. Information-based machine learning enables data quality measurements, a priori task complexity estimations, and reproducible design of data science experiments. The benefits include significant size reduction, increased explainability, and enhanced resilience of models, all contributing to advancing the discipline's robustness and credibility. While bridging the gap between machine learning and disciplines such as physics, information theory, and computer engineering, this textbook maintains an accessible and comprehensive style, making complex topics digestible for abroad readership. Information-Driven Machine Learning explores the synergistic harmony among these disciplines to enhance our understanding of data science modeling. Instead of solely focusing on the "how," this text provides answers to the "why" questions that permeate the field, shedding light on the underlying principles of machine learning processes and their practical implications. By advocating for systematic methodologies grounded in fundamental principles, this book challenges industry practices that have often evolved from ideologic or profit-driven motivations. It addresses a range of topics, including deep learning, data drift, and MLOps, using fundamental principles such as entropy, capacity, and high dimensionality. Ideal for both academia and industry professionals, this textbook serves as a valuable tool for those seeking to deepen their understanding of data science as an engineering discipline. Its thought-provoking content stimulates intellectual curiosity and caters to readers who desire more than just code or ready-made formulas. The text invites readers to explore beyond conventional viewpoints, offering an alternative perspective that promotes a big-picture view for integrating theory with practice. Suitable for upper undergraduate or graduate-level courses, this book can also benefit practicing engineers and scientists in various disciplines by enhancing their understanding of modeling and improving data measurement effectively.