1.	Record Nr.	UNINA9910739443203321
	Autore	Pedrycz Witold
	Titolo	Advancements in Knowledge Distillation: Towards New Horizons of Intelligent Systems / / edited by Witold Pedrycz, Shyi-Ming Chen
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
	ISBN	3-031-32095-6
	Edizione	[1st ed. 2023.]
	Descrizione fisica	1 online resource (239 pages)
	Collana	Studies in Computational Intelligence, , 1860-9503 ; ; 1100
	Altri autori (Persone)	ChenShyi-Ming
	Disciplina	006.3
	Soggetti	Computational intelligence Artificial intelligence Computational Intelligence Artificial Intelligence
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Categories of Response-Based, Feature-Based, and Relation-Based Knowledge Distillation -- A Geometric Perspective on Feature-Based Distillation -- Knowledge Distillation Across Vision and Language -- Knowledge Distillation in Granular Fuzzy Models by Solving Fuzzy Relation Equations -- Ensemble Knowledge Distillation for Edge Intelligence in Medical Applications -- Self-Distillation with the New Paradigm in Multi-Task Learning -- Knowledge Distillation for Autonomous Intelligent Unmanned System.
	Sommario/riassunto	The book provides a timely coverage of the paradigm of knowledge distillation—an efficient way of model compression. Knowledge distillation is positioned in a general setting of transfer learning, which effectively learns a lightweight student model from a large teacher model. The book covers a variety of training schemes, teacher–student architectures, and distillation algorithms. The book covers a wealth of topics including recent developments in vision and language learning, relational architectures, multi-task learning, and representative applications to image processing, computer vision, edge intelligence, and autonomous systems. The book is of relevance to a broad audience including researchers and practitioners active in the area of machine learning and pursuing fundamental and applied research in the area of

advanced learning paradigms.