

1. Record Nr.	UNISA996525671903316
Titolo	Human-centered artificial intelligence : advanced lectures // Mohamed Chetouani [and three others]
Pubbl/distr/stampa	Cham, Switzerland : , : Springer Nature Switzerland AG, , [2023] ©2023
ISBN	3-031-24349-8
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (434 pages)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 13500
Disciplina	006.3
Soggetti	Artificial intelligence Human-computer interaction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Advanced Course on Human-Centered AI: Learning Objectives -- Conceptual Foundations of Human-Centric AI -- Machine Learning With Neural Networks -- Generative Networks and the AutoEncoder -- Convolutional Neural Networks -- Transformers in Natural Language Processing -- Vision and Multi-Modal Transformers -- Transformers in Automatic Speech Recognition -- Interactive Robot Learning: An Overview -- Explainable Machine Learning for Trustworthy AI -- Why and How Should We Explain AI -- Artificial Visual Intelligence: Perceptual Commonsense for Human-Centred Cognitive Technologies -- An Introduction to Ethics and AI -- Law for Computer Scientist -- Mythical Ethical Principles for AI and How to Attain Them -- Operationalising AI Ethics: Conducting Socio-Technical Assessment -- Writing Science Fiction as an inspiration for AI research and Ethics Dissemination -- Argumentation in AI -- Computational Argumentation Cognitive AI -- Agent-based Social Simulation for Policy Making -- Towards a Social Artificial Intelligence.
Sommario/riassunto	The 18th European Advanced Course on AI (ACAI) took place in Berlin on 11-15 October 2021, organized by the European project Humane-AI Net in collaboration with the European AI Association (EURAI). The school included tutorials on different topics, which were selected through an open call to top European AI researchers. In addition, the school also included 4 invited talks, a student poster presentation, and

a mentorship program. This volume contains 21 tutorial chapters organized according to the following themes: human-centered AI; human-centered machine learning; explainable AI; ethics, law, and the societal aspects of AI; argumentation; and social simulation. The contributions include learning objectives, reading lists, and links to further resources.

---