

1. Record Nr.	UNINA9910293146003321
Autore	Abbass Hussein A
Titolo	Foundations of Trusted Autonomy // edited by Hussein A. Abbass, Jason Scholz, Darryn J. Reid
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	9783319648163 3319648160
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XVII, 395 p. 69 illus., 32 illus. in color.)
Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 117
Classificazione	COM004000COM051300MAT006000TEC008000TEC037000
Disciplina	629.892
Soggetti	Control engineering Robotics Automation Artificial intelligence Electronics Mathematics - Data processing Algorithms Control, Robotics, Automation Artificial Intelligence Electronics and Microelectronics, Instrumentation Computational Mathematics and Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Foundations of Trusted Autonomy -- Foundations of Trusted Autonomy: An Introduction -- Goal Reasoning and Trusted Autonomy -- Social planning for Trusted Autonomy -- The Blessing and Curse of Emergence in Swarm Intelligence Systems -- Trustworthiness of Autonomous Systems -- Learning to Shape Errors with a Confusion Objective -- Future Trusted Autonomous Space Scenarios -- An Autonomy Interrogative.
Sommario/riassunto	This book is open access under a CC BY 4.0 license. This book establishes the foundations needed to realize the ultimate goals for artificial intelligence, such as autonomy and trustworthiness. Aimed at

scientists, researchers, technologists, practitioners, and students, it brings together contributions offering the basics, the challenges and the state-of-the-art on trusted autonomous systems in a single volume. The book is structured in three parts, with chapters written by eminent researchers and outstanding practitioners and users in the field. The first part covers foundational artificial intelligence technologies, while the second part covers philosophical, practical and technological perspectives on trust. Lastly, the third part presents advanced topics necessary to create future trusted autonomous systems. The book augments theory with real-world applications including cyber security, defence and space.
