

1. Record Nr.	UNISA996546843603316
Titolo	Cultural Robotics: Social Robots and Their Emergent Cultural Ecologies [[electronic resource] /] / edited by Belinda J. Dunstan, Jeffrey T. K. V. Koh, Deborah Turnbull Tillman, Scott Andrew Brown
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-28138-1
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (281 pages)
Collana	Springer Series on Cultural Computing, , 2195-9064
Disciplina	629.892
Soggetti	User interfaces (Computer systems) Human-computer interaction Computers and civilization Robotics User Interfaces and Human Computer Interaction Computers and Society
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction:Emergent Cultural Ecologies in Social Robotics -- Part I: Human Futures -- 2 Social Robot Morphology: Cultural Histories of Robot Design -- 3 The Robot Soundscape -- 4 Reimagining Robots -- 5 Data, Site, Materials: Robotics and Digital Fabrication within Installation Art -- 6 The Future of Non-Fungible Tokens: pNFTs as a Medium for Programmatic Art Enabling a Fully Realized AI-Driven Art Ecosystem -- Part II: Assistive Technology -- 7 From Assistive to Adaptive: Can We Bring a Strengths-Based Approach to Designing Disability Technology? -- 8 The Intersection of Social Impact, Technology and Design: A Catalyst for Cultural Change -- 9 Culture in Social Robots for Education -- 10 Towards an Autistic User Experience (aUX) Design for Assistive Technologies -- 11 Drone Swarms to Support Search and Rescue Operations: Opportunities and Challenges -- Part III: Creative Platforms and their Communities -- 12 Culture and Technology: Curating New Media in Collaborative Ways -- 13 Soft Robotics Workshops: Supporting Experiential Learning about Design,

Movement, and Sustainability -- 14 Sonic Robotics: Musical Genres as Platforms for Understanding Robotic Performance as Cultural Events -- 15 Rouge and Robot: The Disruptive Feminine -- 16 On Display: Robots as Culture.

Sommario/riassunto

This edited collection approaches the field of social robotics from the perspective of a cultural ecology, fostering a deeper examination of the reach of robotic technology into the lived experience of diverse human populations, as well as the impact of human cultures on the development and design of these social agents. To address the broad topic of Cultural Robotics, the book is sectioned into three focus areas: Human Futures, Assistive Technologies, and Creative Platforms and their Communities. The Human Futures section includes chapters on the histories and future of social robot morphology design, sensory and sonic interaction with robots, technology ethics, material explorations of embodiment, and robotic performed sentience. The Assistive Technologies section presents chapters from community-led teams, and researchers working to adopt a strengths-based approach to designing assistive technologies for those with disability or neurodivergence. Importantly, this section contains work written by authors belonging to those communities. Creative Platforms and their Communities looks to the creative cross-disciplinary researchers adopting robotics within their art practices, those contributing creatively to more traditional robotics research, and the testing of robotics in non-traditional platforms such as museum and gallery spaces. Cultural Robotics: Social Robots and their Emergent Cultural Ecologies makes a case for the development of social robotics to be increasingly informed by community-led transdisciplinary research, to be decentralised and democratised, shaped by teams with a diversity of backgrounds, informed by both experts and non-experts, and tested in both traditional and non-traditional platforms. In this way, the field of cultural robotics as an ecological approach to encompassing the widest possible spectrum of human experience in the development of social robotics can be advanced. .
