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Titolo	A Computational View of Autism : Using Virtual Reality Technologies in Autism Intervention // by Uttama Lahiri
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ISBN	3-030-40237-1
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIII, 173 p. 52 illus., 46 illus. in color.)
Disciplina	616.85882
Soggetti	User interfaces (Computer systems) Human-computer interaction Therapeutics Life skills Artificial intelligence User Interfaces and Human Computer Interaction Life Skills Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	This book first explains autism, its prevalence, and some conventional intervention techniques, and it then describes how virtual reality technology can support autism intervention and skills training. The approaches and technologies covered include immersive virtual reality, augmented reality and mixed reality. The tasks covered include emotion recognition, affective computing, teaching communication skills, imparting literacy skills, training for imitation skills, and joint attention skills. Most of the chapters assume no prerequisite knowledge of autism or virtual reality, and they are supported throughout with detailed references for further investigation. While the author is an engineer by profession, with specialist knowledge in robotics and computer-based platforms, in this book she adopts a user perspective and cites many real-life examples from her own experience. The book is suitable for students of cognitive science, and

researchers and practitioners engaged with designing and offering technological assistance for special needs training.