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Collana	State-of-the-art survey Lecture notes in computer science ; ; 4650
Disciplina	006.3
Soggetti	Digital computer simulation Human-machine systems Human mechanics - Computer simulation
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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Human Dynamics -- Implantable Computing -- Brainwave-Based Imagery Analysis -- Visual Digest Networks -- Virtual Humans -- Biomedical Modeling in Tele-Immersion -- Virtual Fit Study of Pediatric Heart Assist System -- Virtual Clinical Therapy -- Virtual Human Problem-Solving Environments -- Biomechanical Modeling from In-Vivo Data -- Human Forms -- Natural Form Modeling -- Augmented Privacy with Virtual Humans -- 3D Facial Recognition with Soft Computing -- Digital Human Modeling.
Sommario/riassunto	The emerging information technologies have given rise to new human patterns in terms of both physiological and psychological interactions. Human Algorithms aim to model human forms, interactions, and dynamics in this new context. They are becoming increasingly comprehensive and inexpensive for use in real-world designs: inside monitors, connected to networks, and under human skin. This book aims to reflect the state-of-the-art of Digital Human Modeling, specifically emergent Human Algorithms. It constitutes a survey of innovative ideas aimed at a wide range of readers, including college students, researchers, engineers, designers, scientists, managers, and healthcare professionals. The 11 chapters are divided into three parts: Human Dynamics, Virtual Humans and Human Forms.