1. Record Nr. UNISOBSOB021451

Titolo	Diversabilità : storie e dialoghi nell'anno europeo delle persone disabili / [cur.]Andrea Canevaro ; e Dario Ianes [et al.]
Pubbl/distr/stampa	Trento : Erickson, 2003
ISBN	887946518X
Descrizione fisica	218 p. ; 22 cm
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910299839003321

Titolo	Computational Biomechanics for Medicine : New Approaches and New Applications / / edited by Barry Doyle, Karol Miller, Adam Wittek, Poul M.F. Nielsen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-15503-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (141 p.)
Disciplina	610.153 610.28 616.0757 620 620.11 629.892
Soggetti	Biomedical engineering Radiology Medical physics Control engineering Robotics Automation Biomaterials Biomedical Engineering and Bioengineering Medical Physics Control, Robotics, Automation

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- New Approaches -- Vademecums for Real-Time Computational Surgery -- Data-Guided Growth and Remodeling Model of Abdominal Aortic Aneurysm Accounting for the Bio-Chemical Effects of Intraluminal Thrombus -- A Computer Simulation for 3D Vasculature-Based Oxygen Distribution and Tumor Growth -- Numerical Algorithm for Simulation of Soft Tissue Swelling and Shrinking in a Total Lagrangian Explicit Dynamics Framework -- Spatially Weighted Objective Function to Solve the Inverse Problem in Elasticity Iteratively -- Implementation of a Modified Moving Least Squares Approximation for Predicting Soft Tissue Deformation Using a Meshless Method -- New Applications -- Automatic Landmark Detection Using a Statistical Shape Modeling and Template Matching -- Mechanical Properties of Brain-Skull Interface in Compression -- Modeling the Deformation of the Human Cornea Produced by a Forced Air Pulse -- Biomechanical Modeling of the Respiratory System: Human Diaphragm and Thorax -- A Collective Approach forReconstructing 3D Fiber Arrangements in Virtual Musculoskeletal Soft Tissue Models -- Optimization of Acetabulum Reorientation in a Periacetabular Osteotomy (PAO) by Finite Element Simulation: a Preliminary Study.
Sommario/riassunto	The Computational Biomechanics for Medicine titles provide an opportunity for specialists in computational biomechanics to present their latest methodologiesand advancements. Thisvolumecomprises twelve of the newest approaches and applications of computational biomechanics, from researchers in Australia, New Zealand, USA, France, Spain and Switzerland. Some of the interesting topics discussed are: real-time simulations; growth and remodelling of soft tissues; inverse and meshless solutions; medical image analysis; and patient-specific solid mechanics simulations. One of the greatest challenges facing the computational engineering community is to extend the success of computational mechanics to fields outside traditional engineering, in particular to biology, the biomedical sciences, and medicine. We hope the research presented within this book series will contribute to overcoming this grand challenge.