1. Record Nr. UNINA9910700359303321

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Titolo	Electronic Intelligence (ELINT) at NSA [[electronic resource] /] / Richard L. Bernard
Pubbl/distr/stampa	Fort George G. Meade, Md. : , : Center for Cryptologic History, National Security Agency, , 2009
Descrizione fisica	1 online resource (14 pages) : illustrations
Soggetti	Electronic surveillance - United States Data transmission systems - Security measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on May 24, 2011).

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Titolo	Computational Biomechanics for Medicine : Personalisation, Validation and Therapy / / edited by Martyn P. Nash, Poul M.F. Nielsen, Adam Wittek, Karol Miller, Grand R. Joldes
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-15923-X
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (150 pages)
Disciplina	610.285 610.28
Soggetti	Biomedical engineering Mathematics - Data processing Radiology Mechanics, Applied Medical physics Automatic control Robotics Automation Biomedical Engineering and Bioengineering Computational Science and Engineering Engineering Mechanics

	Medical Physics Control, Robotics, Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1. Biomechanical simulation of vaginal childbirth: the colors of the pelvic floor muscles -- Chapter2. Patient-specific modeling of pelvic system from MRI for numerical simulation: validation using a physical model -- Chapter3. Numerical analysis of the risk of pelvis injuries under multidirectional impact load -- Chapter4. Parametric study of lumbar belts in the case of low back pain: effect of patients' specific characteristics -- Chapter5. Quantitative validation of MRI-based motion estimation for brain impact biomechanics -- Chapter6. Meshless method for simulation of needle insertion into soft tissues: preliminary results -- Chapter7. A biomechanical study on the use of curved drilling technique for treatment of osteonecrosis of femoral head -- Chapter8. A hybrid 0D-1D model for cerebral circulation and cerebral arteries -- Chapter9. Removing drift from carotid arterial pulse waveforms: a comparison of motion correction and high-pass filtering. Chapter10. Rapid blood flow computation on digital subtraction angiography: preliminary results. Chapter11. Muscle excitation estimation in biomechanical simulation using NAF reinforcement learning.
Sommario/riassunto	This book contains contributions from computational biomechanics specialists who present and exchange opinions on the opportunities for applying their techniques to computer-integrated medicine, including computer-aided surgery and diagnostic systems. Computational Biomechanics for Medicine collects peer-reviewed chapters from the annual Computational Biomechanics for Medicine Workshop, in conjunction with the Medical Image Computing and Computer Assisted Intervention [MICCAI] Society conference. The works are dedicated to research in the field of methods and applications of computational biomechanics to medical image analysis, image-guided surgery, surgical simulation, surgical intervention planning, disease diagnosis and prognosis, analysis of injury mechanisms, implant and prosthesis design, artificial organ design, and medical robotics. These chapters will appeal to a wide range of researchers and students within the fields of engineering and medicine, as well as those working in computational science. .