

1. Record Nr.	UNINA9910838276903321
Autore	Lopez Natalia M
Titolo	Advances in Bioengineering and Clinical Engineering : Proceedings of the XXIII Argentinian Congress of Bioengineering (SABI 2022) and the XII Clinical Engineering Conference, September 13–16, 2022, San Juan, Argentina // edited by Natalia M. Lopez, Emanuel Tello
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031517235 3031517237
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (537 pages)
Collana	IFMBE Proceedings, , 1433-9277 ; ; 105
Altri autori (Persone)	TelloEmanuel
Disciplina	610.28
Soggetti	Biomedical engineering Signal processing Medical physics Medical informatics Biomedical Devices and Instrumentation Signal, Speech and Image Processing Medical Physics Health Informatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Evaluation of Anticoagulant Activity of Heparin Loaded in PCL Fibers Using Thromboelastography -- Human Amniotic Membrane Allograft: Comparison of Two Preservation Methods in Biocompatibility Assays -- Coupling Media in Microwave Imaging: Dielectric Properties and Temperature Dependence -- Extraction and Purification of Collagen for 3D Printing of Scaffolds with Hyaluronic Acid And Chemical Crosslinking -- Design and Evaluation of Graphene Oxide/Collagen Scaffolds for Their Application in Tissue Engineering -- Upper Limb Biomechanical Analysis Applied to Patients with Stroke -- In Vivo Obtention and Representation of Muscle's Paths from Magnetic Resonance Images -- 3D Biomechanical Modeling Applied to Taekwondo -- Mirror Visual Feedback as a Tool for Training Users to Achieve Control over the BCI -- Functional Design of Software to Obtain

Spatio- Temporal Parameters of Human Gait -- Analysis of Coordination Variability: Pilot Study -- Potential Effects of Physical Activity During Menopause According to a Computational Model of Bone Remodeling Applied to the Femur -- Trunk Orthosis and Interactivity -- Knee Prostheses Modelling: Deformation of the Low Rigidity Component -- Automatic Programs for Image Quality Control in Radiodiagnostics.

---

Sommario/riassunto

This book offers a timely snapshot of research, technologies and best practices in the broad area of bioengineering and clinical engineering. Contributions report on advances in biomechanics, biomaterials, and tissue engineering, biosensors and instrumentation, biomedical signal processing, and rehabilitation engineering. Further, it covers topics relating to quality engineering and management of health services, and of engineering education. The book gathers selected, peer-reviewed contributions to the XXIII Argentinian Congress of Bioengineering and the XII Clinical Engineering Conference, both known under the acronym "SABI 2022", held on September 13–16, 2022, in San Juan, Argentina, and organized by the Sociedad Argentina de Bioingeniería.

---