1. Record Nr. UNINA9910337619803321 World Congress on Medical Physics and Biomedical Engineering 2018: Titolo June 3-8, 2018, Prague, Czech Republic (Vol.3) / / edited by Lenka Lhotska, Lucie Sukupova, Igor Lackovi, Geoffrey S. Ibbott Singapore:,: Springer Singapore:,: Imprint: Springer,, 2019 Pubbl/distr/stampa 981-10-9023-8 **ISBN** Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (XXIX, 888 p. 484 illus.) Collana IFMBE Proceedings, , 1680-0737; ; 68/3 Disciplina 610.28 Soggetti Biomedical engineering Medical physics Radiation Biomedical materials Optical data processing Biomedical Engineering and Bioengineering Medical and Radiation Physics Biomaterials Image Processing and Computer Vision Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Diagnostic Imaging -- Image Processing -- Information Technology in Nota di contenuto Healthcare -- Modelling and Simulation -- BME and MP Education, Training and Professional Development -- Patient Safety --Accreditation and Certification -- Health Technology Assessment --Biosignals Processing -- Biomechanics, Rehabilitation and Prosthetics -- Minimum Invasive Surgery, Robotics, Image Guided Therapies, Endoscopy -- Diagnostic and Therapeutic Instrumentation -- Microand Nanosystems, Active Implants, Biosensors -- Neuroengineering, Neural Systems -- Biomaterials, Cellular and Tissue Engineering, Artificial Organs -- Assistive Technologies -- Biological Effects of Electromagnetic Fields -- Clinical Engineering -- Radiation Oncology

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Sommario/riassunto

This book presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand, and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health.