1. Record Nr.   UNINA9910828813303321

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   Titolo   Eterno CampeAo / / Mark Gardner ; traduzido por Antonio Eduardo
                      Vargas Rodrigues

   Pubbl/distr/stampa [Place of publication not identified] : , : Babelcube, Inc., , 2017
                      ©2015

   ISBN   1-5071-8173-6

   Descrizione fisica 1 online resource (119 pages)

   Disciplina   895.1352

   Soggetti   Soldiers - China

   Lingua di pubblicazione Portoghese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

2. Record Nr.   UNINA9910739480903321

   Titolo   Advanced Bioscience and Biosystems for Detection and Management of
                      Diabetes / / edited by Kishor Kumar Sadasivuni, John-John Cabibihan,
                      Abdulaziz Khalid A M Al-Ali, Rayaz A. Malik

   Pubbl/distr/stampa Cham : , : Springer International Publishing : , : Imprint : Springer, ,
                      2022

   ISBN   3-030-99728-6

   Edizione   [1st ed. 2022.]

   Descrizione fisica 1 online resource (313 pages)

   Collana   Springer Series on Bio- and Neurosystems, , 2520-8543 ; ; 13

   Disciplina   616.462
                      616.462075

   Soggetti   Biomedical engineering
                      Machine learning
                      Biomedical Engineering and Bioengineering
                      Machine Learning

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

Nota di contenuto	Introduction -- Review of Emerging Approaches Utilizing Alternative Physiological Human Body Fluids in Non- or Minimally Invasive Glucose Monitoring -- Current Status of Non-invasive Diabetics Monitoring -- A New Solution for Non-invasive Glucose Measurement Based on Heart Rate Variability -- Optics Based Techniques for Monitoring Diabetics -- SPR Assisted Diabetics Detection -- Infrared and Raman Spectroscopy Assisted Diagnosis of Diabetics -- Photoacoustic Spectroscopy Mediated Non-Invasive Detection of Diabetics -- Electrical Bioimpedance Based Estimation of Diabetics -- Millimeter and Microwave Sensing Technique for Diagnosis of Diabetics -- Different Machine Learning Algorithm involved in Glucose Monitoring to Prevent Diabetes Complications and Enhanced Diabetes Mellitus Management -- The role of Artificial Intelligence in Diabetes management -- Artificial Intelligence and Machine learning for Diabetes Decision Support -- Commercial Non-Invasive Glucose Sensor Devices for Monitoring Diabetics -- Future Developments in Invasive and Non-Invasive Diabetics Monitoring.
Sommario/riassunto	This book covers the medical condition of diabetic patients, their early symptoms and methods conventionally used for diagnosing and monitoring diabetes. It describes various techniques and technologies used for diabetes detection. The content is built upon moving from regressive technology (invasive) and adapting new-age pain-free technologies (non-invasive), machine learning and artificial intelligence for diabetes monitoring and management. This book details all the popular technologies used in the health care and medical fields for diabetic patients. An entire chapter is dedicated to how the future of this field will be shaping up and the challenges remaining to be conquered. Finally, it shows artificial intelligence and predictions, which can be beneficial for the early detection, dose monitoring and surveillance for patients suffering from diabetes.