

Basic Information :

Name : Mohamed Tarek Ibrahim Mohamed Ali Elwakad
Title : vice Dean



Education:

Certificate	Major	University	Year
PhD	Measurements, Computer modeling, Biomaterials, Biomechanics, Stress analysis	Rensselaer polytechnic Institute - Troy, New York, USA	1988
Masters	Measurements, Medical Engineering	George Washington University - Washington , D.C, USA	1981
Bachelor	Mechanical Engineering	Faculty of Engineering - Helwan University	1975

Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Vice Dean	01/10/2019	Current

Researches / Publications :

Implementation and Evaluation of a Dynamic Neck Brace Rehabilitation Device Prototype

A Novel Stimulation and impedance sensing Setup for Dielectrophoresis based Microfluidic Platform

Finite-Element Analysis of the Effect of Utilizing Various Material Assemblies in %All on Four-~~to~~ on the Stresses on Mandible Bone and Prosthetic Parts

Evaluation of stress and strain on mandible caused by changing the bar material in hybrid prosthesis utilizing %All-on-Four-~~to~~ technique

A Finite Element-Based Analysis of a Hemodynamics Efficient Flow Stent Suitable for Different Abdominal Aneurysm Shapes

HA/HDPE Reinforced with MWCNTs for Bone Reconstruction and Replacement Application

Impedance Spectroscopy based on the Cell Trajectory and New Strategy to Enhance the Accuracy of the Detection in the Microfluidic System

Towards an Ultra-Affordable Three-Dimensional Bioprinter: A Heated Inductive-Enabled Syringe Pump Extrusion Multifunction Module for Open-Source Fused Deposition Modeling Three-Dimensional Printers

Zinc-Magnesium alloy as a degradable bone plate

An Influence of the Microfluidic Channel Height and Distribution of Dielectrophoretic Force on the Impedance Extraction in Microfluidic Systems

Identification of a New Topology to Enhance the Impedance Extraction in Microfluidic Systems

The Electroporation Response of Normal and Malignant White Blood Cells

Multiwall carbon nanotube reinforced HA/HDPE biocomposite for bone reconstruction

EVALUATION OF A HYBRID BIOCOMPOSITE OF HA/HDPE REINFORCED WITH MULTI-WALLED CARBON NANOTUBES (MWCNTs) AS A BONE-SUBSTITUTE MATERIAL

Optimization of micro-electrodes for DNA fragments labelled to microbeads manipulation and characterization

A novel microfluidic system using a reservoir and flow control system for single-cell release, migration, separation, and characterization

Planar Micro-electrodes versus Cone Plate for Biological Cell Trapping and Characterization

Micro-electrodes based on CMOS Technology for Characterization of Biological Cells

Chapter :