

Introduction to

**Biomedical
Engineering
Research Projects
& Case Studies**

Introduction to

Biomedical Engineering Research Projects & Case Studies

MUHAMMAD MAHADI ABDUL JAMIL



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Table of Contents:

Preface	vii
CHAPTER 1	
A wearable rehabilitation monitoring device for lower arm	1-16
CHAPTER 2	
Modelling of Musculoskeletal System with Genetic Optimization of Fuzzy Logic Approach	17-42
CHAPTER 3	
Towards Socially Acceptable Assistive Wheelchair System by Monitoring User and People Around	43-70
CHAPTER 4	
A Brief Review on Fetal Pulse Oximetry	71-90
CHAPTER 5	
Medical Image Processing and Analysis: Application on Kidney Ultrasound Images	91-108
CHAPTER 6	
Deep Vein Thrombosis: Towards a Quantitative in Vivo Evaluation of Venous Valve Using Image Processing Technique	109-124
Index	125

PREFACE

Knowledge is a gift from Almighty Allah for the mankind thus, will be acquired if we learn and will increase if we practice. Nevertheless, knowledge will disappear if there is no practice and may lead towards ignorant.

Narrowing towards research point of view, knowledge will come through learning process and experience undergone in daily life. This research book aimed to provide a significant reference medium from the selected case studies. In this edition, the example studies included will be useful for the students to trigger their own idea according to the research method conducted previously which are also presented extensively by chapters.

On the other hand, the postgraduate students will also benefit from this research book where the main idea of commencing a research project are shown in various example studies that would give a flow for the students on where to start their own projects. The example studies presented here will include various types of studies such as product design & development, modelling & simulation, review, quantitative analysis and also image processing. These combinations will allow the research students to gain a prior knowledge on the type of studies that they would like to embark on. Therefore, by reading this book I strongly believe that it may assist the students in answering many of their doubts on how and where to start their research projects.

For example: how to coin the “problem statements”, perform data collection & analysis, and experimental procedure planning for their projects.