

Preface

In the period of last two decades it is not hard to observe unusual direct progress of civilization in many fields concerning conditionality coming out from technical theories or more generally technical sciences. We experience extraordinary dynamics of the development of technological processes including different fields of daily life which concerns particularly ways of communicating. We are aspiring for disseminating of the view that the success in the concrete action is a consequence of the wisdom won over, collected and appropriately processed. They are talking straight out about the coming into existence of the information society.

In such a context the meeting of the specialists dealing with the widely understood innovations in Biomedical Engineering give a new dimension associated with promoting something like the new quality. Because having the innovative approach as a pointer in today's world of changing attitudes and socio-economic conditions can be perceived as one of the most important advantages. It results from the universal globalization letting observe oneself of surrounding world. Thanks to the development of new biotechnologies coming out from the rapid progress in Biomedical Sciences comprehending the contemporary needs of surrounding world it may be said almost without any risk that life without biomedical sciences would stopped existing.

At present, as it seems, implementing the universal standardization of the transfer and the processing of information is the most important issue what in the significant way influences for expanding the circle of Biomedical applications. It is a kind of challenge to put the proper weight into particular branches covered by biomedical engineering and therefore we decided to edit the book as four part elaboration covering biomaterials, biomechanics, biomedical informatics and last but not least biomedical signals processing. One should aspire to it permanent integration rather than the disintegration to progress in the context of the technological development. Hence the constant observation and the appropriate problem analysis of biomedical sciences as well as checking the technologies development and their applications is picking the great importance up.

The monograph returned to hands of readers being a result of meeting specialists dealing with above mentioned issues should in the significant way contribute to the

success in implementing consequences of human imagination into the social life. We believe being aware of a human weakness and an imperfection that the monograph presenting of a joint effort of the increasing numerically crowd of professionals and enthusiasts will influence the further technology development regarding generally understood biomedicine with constantly expanding spectrum of its applications.

The last part of this preface will be devoted to express our great thanks and appreciation to all the contributors of this book, which were listed in the special section as "contributors list" and to persons who gave us an unusual help in final editing process. Specials thanks are transfered to Szymon Sieciński for incredible engagement and help in creating the final version of this book.

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