Sensors in biomechanics: an introduction

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Editorial

Dear colleagues, being the part of the editorial team of this reputed journal, I feel very privileged and delighted to get an opportunity to write an editorial opinion article for the journal. I would like to thank all the contributors i.e. Authors, reviewer's, editors etc. of the journal on behalf of editorial team of the MedCrave Online Journal of Applied Bionics and Biomechanics. In recent years, there has been a lot of development and considerable research has taken place in the domain of biomechanical and biomedical sensors and their inherent information processing techniques. Various MEMS sensors employed for measuring biomechanics activities of either the whole body or individual parts of the body results in of various revolutionary sensors based advancements in field of biomechanics. This has led to evolution of many innovative applications in biomedicine and biomedical engineering. Such developments and research results have also created stimulating opportunities for solving a variety of complex problems in healthcare such as capturing certain movements of body parts can serve for assessment of therapy process to be applied, timely detection and diagnosis of disease or measuring training activities of a person. Using sensors for various biomechanics application is becoming one of the most important innovation techniques. Sensors are used in all kinds of applications such as:

A. Measurements of human biomechanical parameters.

B. Biosensors, sensor design, sensor fusion for improved diagnosis

C. Biomechanical sensors for health, human performance and bio-metrics

D. Smart sensors

E. Sensor signals and associated signal processing.

MedCrave Online Journal of Applied Bionics and Biomechanics (MOJABB) is an International, Peer reviewed Journal of advanced technological developments based on the science of biological systems. The journal solicits research papers for its forthcoming issue in all aspects of bionic science and engineering including fundamental understandings of animals and plants for bionic engineering, such as locomotion and behaviors of animals, structures, composites, morphology and physical properties of plants and natural materials, applications of such understandings in engineering, technology and designs. Journal accepts Research Papers, Review Articles, Short Communications, Case Reports, Mini-Reviews, Opinions, Letter to Editors, etc. in this field which will be enlightening the scientific community. On behalf of the editorial team of the journal I invite authors from all over the world to share their innovative research and findings. Further I assure that the contents submitted to MedCrave will enjoy more visibility and will be peer reviewed too. You can submit your works on any topic of your expertise. Journal ensures to share only high-quality content, so there is no room for copied or doubtful content to be published. You can submit work on any topic relevant to science. The content should be unique, original and the presentation must be of potential interest to the readers. You can submit your research articles too. These research papers must be original and must be in the major field of science. The research articles can include the findings and the methodology you used. You can also compile your evidences that lead to your conclusions. So once again I beseech timely submission of research papers for prospective publication in upcoming issue of the journal.

References and Acknowledgements

I have based this paper on the materials collected from several courses I've attended. Some of this information is also featured in various tutorials available online. In addition, I have also consulted several web pages while writing this article. I would also like to thank Mr. Amit Saxena and Ms. Deepti Shinghal for their valuable support, without their help this article would have been impossible to complete.

Conflict of interest

Author declares that there is no conflict of interest.