

BIONICS IN ENGINEERING

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Abstract

Bionics is the application of biological methods and systems found in nature to the study and design of engineering systems and modern technology. The meaning of the word bion is unit of life and the suffix 'ic' means in the manner of the important significance of bionics in the development of human beings. People with disabilities can benefit from Bionics. A bionic ear is an artificial hearing device, designed to produce sensations by electrically stimulating nerves inside the inner ear. Bionics legs can be used by people with paralyzed limbs to stand up and walk. Bionics can replace diseased or aged organs and therefore offer an increased lifespan. Apart from this, there are many other applications of bionics. Bionics is also used in our day to day lives. In medicine the field the enhancement or replacement of organs and other body parts by mechanical versions. The new implanted parts mimic the original function very effectively. The best known bionic plant available is the coherent implant, which is a deaf people device. Advances in prosthetic applications contribute to the development reaching from the morphological establishment of an analogy via a complete abstraction and rejection of a model back to a continuous convergence with the natural processes. Neurobionics is accepted by a large number of bionic engineers as a field of bionic research, as long as it has to do with learning from nature with an eye on evolutionary insights. Many researches are going on for the making improvements in this technique for there efficient use in Future.

Keywords and phrases: bionics, design of engineering systems and modern technology.



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