

Enchanting world of bionics

Editorial

Bionics is a term which refers to the utilization of electronic devices and mechanical parts to assist humans in performing difficult, dangerous, or intricate tasks, as by supplementing or duplicating parts of the body. In other words, bionics is the application of biological approaches and arrangements found in nature to the study and design of engineering systems and modern technology. A very good example of bionics application in modern day technology is the development of dirt and water repellent coating for windscreens of the cars from the observation that practically nothing sticks to the surface of the lotus flower plant. The self-cleaning ability of lotus plant is amazing. Researchers have studied the micro-structure of the leaves to find out how dirty water is repelled. It turns out that the leaves are covered in lots of tiny spikes that make water unable to wet the leaf surface. Instead the water droplets remain spherical due to surface tension and roll off the leaf, taking any dust and dirt with them. The researchers are trying to make Self-cleaning glass for various applications as suggested above by using nanotechnology to etch lots of small points onto the surface of a glass so that it becomes water and dust repellent just like the leaves of lotus plant. Bionic technologies are becoming a reality, and are integrating with the human body itself. Humans and technology are coming together in a multitude of ways. The bionics industry is developing rapidly, with many frontiers involving the design of multiple diversified bionics applications. The fusion of technology with biological approaches and arrangements found in nature will produce complexities. Many believe that technology will be the way around human evolution. In near future bionics will become a massive force in allowing humans to overcome their physical limitations.

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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.