

Application of Cyborgs and Enhancement Technology in Biomedical Engineering

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Abstract

As we go deeper into the twenty-first century, there is a major trend to improve the body with “cyborg technology.” In fact, due to medical necessity, millions of people around the world are now equipped with prosthetic devices to restore lost function, and the DIY movement is growing to improve the body to create new senses or to improve current senses “beyond normal”. From prosthetic limbs, artificial cardiac pacemakers and defibrillators, brain-computer implants, cochlear implants, retinal prostheses, magnets as implants, exoskeletons and many other improvements, the human body becomes more mechanical and computational, and therefore less biological. This trend will continue to accelerate once the body is transformed into information processing technology, which ultimately calls one’s sense of identity and what it means to be human. This article evaluates “cyborg enhancement technologies” with an emphasis on technological brain enhancements and the creation of new senses-the benefits of which can allow direct implantation of information into the brain, editing memories, wireless brain connection-brain communication and a wide range of sensory information to explore and experience. The paper concludes with reflections on the future direction of cyborgs and the meaning and consequences of becoming a cyborg and less so in an age of rapid progress in the design and use of computer technology. with an emphasis on technological improvements in the brain and the creation of new senses-the benefits of which can allow direct implantation of information into the brain, editing memories, wireless brain-brain communication, and a wide range of sensory information, which need to be explored and experienced. nt goes here

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