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Artificial Intelligence (AI) in biomedical engineering

Hossein Hosseinkhani

Innovation Center for Advanced Technology, USA

Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. Recent advances and applications of artificial intelligence (AI) in medicine via emphasizing this research area with novel biomaterials technology have shown great interest in medical applications. The way AI rapidly processes large amounts of information and arrives at likely causes for symptoms can drastically reduce the diagnosis-treatment-recovery cycle for many patients. The present seminar is divided into two parts; in the first part I will discuss the basic principle of the AI technology. In the second part, I will discuss the recent applications of AI technology in healthcare. I will further show some of our recent project in which AI technology has been used in biomedical

engineering including in cancer, diabetes, biosensor and tissue engineering.

Recent Publications

1. Hosseinkhani, H, Biomedical Engineering: Materials, Technology, Applications. 2022, John Wiley & Sons, ISBN: 9783527347469.
2. Domb, A.J.; Sharifzadeh, G.; Nahum, V.; Hosseinkhani, H. Safety Evaluation of Nanotechnology Products. *Pharmaceutics*, 2021, 13, 1615.
3. Khalaji, S.; Ebrahimi, N.G.; Hosseinkhani, H. Enhancement of biocompatibility of PVA/HTCC blend polymer with collagen for skin care application. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 2021, 70, 459-468.

hh@matrix-inc.com