## Asian Journal of Research in Social Sciences and Humanities

ISSN: 2249-7315 Vol. 11, Issue 11, November 2021 SJIF 2021 = 8.037 A peer reviewed journal

#### THE BRIEF REVIEW ON THE ROBOT IN THE ACTION

## Amit Kumar\*

\*Faculty of Engineering, Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA Email id: amit.engineering@tmu.ac.in

DOI: 10.5958/2249-7315.2021.00255.0

#### **ABSTRACT**

The term "animatronics" refers to a subfield of mechatronics that combines mechanical and electrical concepts. Animatronics has grown increasingly popular, although it was formerly known as a robotics curriculum. Muscles, limbs, and a cell composed of hard and soft polymers are used to make robots that function like humans. The article depicts an experiment using an animation hand, which is nothing more than a dummy human hand that responds to commands provided by humans. The project is made up of a controller, a sensor, and a motor, all of which are controlled and operated wirelessly thanks to the Wi-Fi module connected to this project, which allows the hand to function without the need for a cable connection. The primary goal of this project is to put it to use in a variety of settings, such as hospitals, military bases, and factories, in order to minimize human participation and make labor more efficient.

**KEYWORDS:** Animatronics, Mechatronics, Robot, Universal Serial Bus (USB), Wireless Fidelity (Wi-Fi).

## **REFERENCES:**

- **1.** Bicchi A, Kumar V. Robotic grasping and contact: A review. Proceedings-IEEE Int Conf Robot Autom. 2000;
- 2. Kumar G, Jayanand, Perween Q, Ansari R, Rai DV. Neuroprotective effects of rutin against hydrogen peroxide induced oxidative stress in cerebral glioma cell line. Int J Pharm Sci Rev Res. 2014;
- **3.** Bhardwaj S, Singhal N, Gupta N. Adaptive neurofuzzy system for brain tumor. In: Proceedings of the International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with Their Impact on Humanity, CIPECH 2014. 2014.
- **4.** \Kumar A, Jain RK, Yadav P, Chakraborty RN, Singh BK, Nayak BK. Effect of gamma irradiation on the etching properties of Lexan and Makrofol-DE polycarbonate plastics. J Radioanal Nucl Chem. 2013;
- **5.** Jain RK, Kumar A, Singh BK. Track etch parameters and annealing kinetics assessment of protons of low energy in CR-39 detector. Nucl Instruments Methods Phys Res Sect B Beam Interact with Mater Atoms. 2012;
- **6.** Moorthy K, Munz Y, Dosis A, Hernandez J, Martin S, Bello F, et al. Dexterity enhancement with robotic surgery. Surg Endosc Other Interv Tech. 2004;
- 7. Kumar D, Singh R. Anticataract activity of Acorus calamus Linn. against hydrogen peroxide induced cataractogenesis in Goat eyes. Int J Pharm Sci Rev Res. 2011;

## Asian Journal of Research in Social Sciences and Humanities

ISSN: 2249-7315 Vol. 11, Issue 11, November 2021 SJIF 2021 = 8.037 A peer reviewed journal

- **8.** Rihan A, Quaisarperween, Gaurav K, Jayanand, Durg VR. Effect of butylated hydroxyanisole on hydrogen peroxide induced oxidative stress on cerebral glioma cell line. Asian J Pharm Clin Res. 2014;
- **9.** Sahu PP, Singh M, Baishya A. A novel versatile precision full-wave rectifier. IEEE Trans Instrum Meas. 2010;
- **10.** Danahy E, Wang E, Brockman J, Carberry A, Shapiro B, Rogers CB. LEGO-based robotics in higher education: 15 years of student creativity. Int J Adv Robot Syst. 2014;
- **11.** Sharma K, Goswami L. RFID based Smart Railway Pantograph Control in a Different Phase of Power Line. In: Proceedings of the 2nd International Conference on Inventive Research in Computing Applications, ICIRCA 2020. 2020.
- **12.** Sharma R, Chander R. Market proxies at BSE and weak form efficiency. Indian J Financ. 2011;
- **13.** Selvaraj M, Assiri MA, Singh H, Appaturi JN, Subrahmanyam C, Ha CS. ZnAlMCM-41: a very ecofriendly and reusable solid acid catalyst for the highly selective synthesis of 1,3-dioxanes by the Prins cyclization of olefins. Dalt Trans. 2021;
- **14.** Bargar WL, Parise CA, Hankins A, Marlen NA, Campanelli V, Netravali NA. Fourteen Year Follow-Up of Randomized Clinical Trials of Active Robotic-Assisted Total Hip Arthroplasty. J Arthroplasty. 2018;
- **15.** Kumar L, Thakur I, Verma A, Bhatia BS, Mangat CK. Degradation and Decolourization of Methyl Orange Dye Using Fe-TiO2 Hybrid Technology (Photo-Fenton and Photocatalysis) in Fixed-Mode. In: Lecture Notes in Civil Engineering. 2021.
- **16.** Kaushal G, Singh H, Prakash S. High-temperature erosion-corrosion performance of high-velocity oxy-fuel sprayed Ni-20 Cr coating in actual boiler environment. Metall Mater Trans A Phys Metall Mater Sci. 2011;
- **17.** Talwar R, Chatterjee AK. Estimation of power dissipation of a 4H-SiC schottky barrier diode with a linearly graded doping profile in the drift region. Maejo Int J Sci Technol. 2009;
- **18.** Sheikh RQ, Yadav V, Kumar A. Stabilization of red soil used as a sub-base material. Int J Sci Technol Res. 2020;
- **19.** Haddadin S, Laue T, Frese U, Wolf S, Albu-Schäffer A, Hirzinger G. Kick it with elasticity: Safety and performance in human-robot soccer. Rob Auton Syst. 2009;
- **20.** International Federation of Robotics. Executive Summary World Robotics (Industrial & Service Robots) 2017. World Robot Rep Exec Summ. 2017;
- 21. All you want to know about Animatronic Hand.
- **22.** Gupta A, Jain R, Bang D, Kori J. Wireless animatronic arm. In: IET Conference Publications. 2016.
- **23.** Saroliya A, Mishra U, Rana A. Performance Evaluation and Statistical Analysis of AUR-Chord Algorithm with Default Working of Structured P2P Overlay Network. In: Advances in Intelligent Systems and Computing. 2018.
- **24.** Sharma RK, Sharma J, Rai D V., Zafar M. Cod reduction from industrial wastewater using thermal liquid-phase oxidation technique. Int J Chem Sci. 2013;
- **25.** Chandel SK, Goyal R, Singla S. Utilization of construction waste as partial replacement of aggregates in cement concrete. Int J Innov Technol Explor Eng. 2019;

# Asian Journal of Research in Social Sciences and Humanities

ISSN: 2249-7315 Vol. 11, Issue 11, November 2021 SJIF 2021 = 8.037 A peer reviewed journal

- **26.** Guerrero-Rincon C, Uribe-Quevedo A, Leon-Rodriguez H, Park JO. Hand-based tracking animatronics interaction. In: 2013 44th International Symposium on Robotics, ISR 2013. 2013.
- **27.** Jog S, Dwivedi A, Ashtankar S, Gautam G. "Animatronic Hand Using Wireless Module ." 2016;1529–31.