European Journal of Sports and Exercise Science

Abstract

Surgicial Robotics,Healthcare Robotics& Frameworks in Robotics

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Abstract:

Advances in Robotics technology are enabling a data and information revolution in Healthcare. There is a lot of noise from manufacturers around the utility and feasibility of Surgical Robots, sensors and wearables like Exoskeletons, which could be seen as feeding the anticipated utility of such devices. There are a number of challenges and hurdles in the early stages of incorporating such technologies into clinical trials. This presentation will discuss these challenges and what needs to be done to address these concerns around cost of implementation, integration capability, clinical utility, and patient confidentiality. The volume, variety, and velocity of data being generated by disparate devices could generate a wealth of data, and organizations need to be prepared to handle big data in real time. Data standards need to be agreed upon by governing bodies, and analytical capabilities need to be developed if the potential of mobility is to be fully recognized. This presentation will address potential solutions derived from participating in industry consortia on mobility and big data, as well as multiple interactions with device vendors and pharmaceutical companies.

Biography:

Thameem Fowzan is a Robotics Technical Lead and Proven Consult Intel Software Innovator in Intel Corporation. He is started in ISRO as Maintanance Engineer till 2016. Robotics Research intern in Untrodden labs till 2017 August. He is a Robotics Researcher in Cyberworks Robotics till 2018 June. He was also a Technical architect in MTTC till 2018 December.

Publication of speakers:

1. Leach, Lyndsay & Hanovice, Nicholas & George, Stephanie & Gabriel, Ana & Gross, Jeffrey. (2020). The immune response is a critical regulator of zebrafish retinal pigment epithelium regeneration. 10.1101/2020.08.14.250043.
2. Tang, Xiaohui & Kang, Xiaojing & Sun, Miao & Dili, Nuer & He, Yuhong & Wu, Xiujuan & Liu, Jianyong & Wu, Weidong & Pu, Xiongming. (2009). Mutation analysis of a Uighur family with epidermolytic palmoplanar keratoderma. Zhonghua yi xue yi chuan xue za zhi = Zhonghua yixue yichuanxue zazhi = Chinese journal of medical genetics. 26. 615-9. 10.3760/cma.j.issn.1003-9406.2009.06.003.
3. Chu, Yu-Xin & Hu, Zhao-Hui & Wang, Xiao-Chun & Yu, Chang-Shun. (2009). [Polymorphism of DXS15, CA13, CA22 loci in Guangdong normal population]. Zhongguo shi yan xue ye xue za zhi / Zhongguo bing li sheng li xue hui = Journal of experimental hematology / Chinese Association of Pathophysiology. 17. 1569-72.
4. Schennink, A. & Bovenhuis, H. & Kloosterziel, K.M. & Arendonk, Johan & Visker, M.. (2009). Effect of polymorphisms in the FASN, OLR1, PPARGC1A, PRL and STAT5A genes on bovine milk-fat composition. Animal Genetics. 40. 909 - 916. 10.1111/j.1365-2052.2009.01940.x..

Citation: Thameem Fowzan; Surgicial Robotics,Healthcare Robotics& Frameworks in Robotics; Trauma Surgery 2020: September 11, 2020; London, UK