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Machine learning in orthopaedic surgery

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Recognizing the potential of big data and ML, leaders within Cleveland Clinic's Department of **Orthopedics** established the **Machine Learning** Arthroplasty Laboratory (MLAL) in 2018 to create **machine-learning** algorithms that explore two core objectives directly related to the practice and progress of **orthopaedic surgery**: (1) patient-specific, value-based care; and (2) human movement.

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Feedback

Machine Learning

Machine learning (ML) is the study of computer algorithms that improve automatically thro... **+**

W Wikipedia

Subdisciplines of: Artificial Intelligence · Computer Science

Subdisciplines: Deep Learning · Supervised Learning

Academic conferences: AI 2016 · ICANN 2014 · IJCNN 2015 · COLT 2015 · ICDM 2015 · KDD 2016 · ICONIP 2015 · ICMLA 2015 · PAKDD 2016 **+**

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Machine learning has incredible potential given its ability to process large amounts of patient information and predict patient outcomes, a reason why it is important for **orthopedic surgeons** to have the most current information. The proposed systematic review will evaluate the advances of AI and ML in the field of **orthopedic surgery**.

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Background: Artificial intelligence (AI) and machine learning (ML) are interwoven into our everyday lives and have grown enormously in some major fields in medicine including cardiology and radiology. While these specialties have quickly embraced AI and ML, orthopedic surgery has been slower to do so.

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Machine learning in orthopaedic surgery

Lalehzarian SP *et al*. ML in orthopaedic surgery

Simon P Lalehzarian, Anirudh K Gowd, Joseph N Liu

Abstract

Artificial intelligence and machine learning in orthopaedic surgery has gained mass interest over the last decade or so. In prior studies, researchers have demonstrated that machine learning in orthopaedics can be used for different applications such as fracture detection, bone tumor diagnosis, detecting hip implant mechanical loosening, and

Machine learning in orthopaedic surgery

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