

Imaging the Future: The Intersection of Artificial Intelligence and Surgical Radiology

John Peter*

Abstract

The convergence of artificial intelligence (AI) and surgical radiology marks a pivotal moment in the evolution of the field of surgical radiology. Current applications encompass image enhancement, automated detection, and streamlined workflows emerge as a prominent advantage, accelerating diagnostic processes and optimizing resource utilization. However, challenges such as data privacy and algorithm bias necessitate careful consideration. Looking forward, the fusion of AI and surgical radiology promises personalized treatment plans, real-time decision support, and professionals holds the potential to redefine the future of surgical radiology, ushering in an era of unparalleled precision and personalized healthcare.

Keywords:

Introduction

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Current Applications

Image enhancement and reconstruction

Automated detection and segmentation:

3 .

Surgical navigation:

Streamlining workflows:

Challenges and Considerations

Future Possibilities

Personalized treatment plans

Real-time decision support:

Postoperative monitoring:

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