

Modern Robotics in Medicine

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The section of robotics in medicine covers a wide spectrum of the recent advancements of connected modern technological infrastructure that allow collaborative and remotely precise surgical operations. The analysis of the potentials of the medical system under investigation in this book are hugely beneficial for researchers in the fields of personalized healthcare, remote precise surgical operation, modern image processing and visualization techniques and artificial intelligent automated services in medicine.

Robotics in medicine is very innovative field of research and exploration recently. Recent advancements in different robotics technologies utilized in medical and personalized healthcare are in huge concerns both in academia and industry fields. Getting yourself to be familiar in the recent state-of-art in the different fields covering robotics in medicine is great step towards being professional in high demand for medical, personal healthcare, robotics and IT industries.

Topic Field-1: The board Spectrum of Robotics Applications in Medical and HealthCare Monitoring.

Topic Field-2: Recent Advancements of Medical Teleoperations.

Topic Field-3: Medical Imaging and Image-guided Surgery.

Topic Field-4: Kinematics of Medical Robotics.

Topic Field-5: Tracking & Surgical Navigation.

Topic Field-6: Surgical Collaborative Robots.

Topic Field-7: The Rise of Metaverse in Future Surgery.

Topic Field-8: Towards Successful and Widely Adoption of Robotic Surgery in Common Surgical Procedures.

Topic Field-9: IoT and Digital Human-Body Twin for Precise and Reduced Cost Remote Robotic-Surgery.

Topic Field-10: The power of Artificial Intelligence in Personalized HealthCare and Robotic Surgery.