Research and Markets: Medical Robotics: Minimally Invasive Surgery

The Associated Press

DUBLIN--(BUSINESS WIRE)--Nov 6, 2012--Research and Markets (http://www.researchandmarkets.com/research/m9qd4h/medical_robotics) has announced the addition of Woodhead Publishing Ltd's new book "Medical robotics: Minimally invasive surgery" to their offering.

Advances in research have led to the use of robotics in a range of surgical applications. Medical Robotics: Minimally invasive surgery provides authoritative coverage of the core principles, applications and future potential of this enabling technology.

Beginning with an introduction to robot-assisted minimally invasive surgery (MIS), the core technologies of the field are discussed. Key current and future applications for robotics in a range of surgical procedures and medical applications are then explored, before the book concludes with a discussion of ethical issues related to the use of medical robotics.

Key Topics Covered: - Introduction to robot-assisted Minimally Invasive Surgery (MIS) - Localisation and tracking technologies for medical robotics - Robotics for neurosurgery - Robotic systems for cardiovascular interventions - Robotics in orthopaedic surgery - Robotic-assisted knee replacement surgery - Robotics in Ear, Nose and Throat (ENT) surgery - Robotic-assisted eye surgery - Robotics for minimally invasive surgery (MIS) and natural orifice transluminal endoscopic surgery (NOTES) - Meso-Scale mobile robots for gastrointestinal Minimally Invasive Surgery (MIS) - Real-time software platform using magnetic resonance imaging (MRI) for in vivo navigation of magnetic microrobots - Robotic surgery and ethical issues.

Author Paula Gomes leads developments of surgical and interventional medical devices at Cambridge Consultants, a world leader in technology and product development. The former R&D Director of Acrobot, the company responsible for the world-first surgeon-controlled robotic device for orthopaedic surgery, she has extensive experience with surgical technology, surgical robotics and software-driven electromechanical medical devices.

For more information visit http://www.researchandmarkets.com/research/m9qd4h/medical_robotics Source: Woodhead Publishing Ltd
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