

Within the past twenty years, the field of robotics has been finding many areas of applications ranging from space to underwater explorations. One of these areas which is slowly gaining popularity among the users group is the notion of service robotics. This book is an investigation and exploration of engineering principles in the design and development of mechanisms and robotic devices that can be used in the field of surgery. Specifically the results of this book can be used for designing tools for class of Minimally Invasive Surgery (MIS). Generally, Minimal Invasive Surgery (MIS), e. g. laparoscopic surgery, is performed by using long surgical tools, that are inserted through small incisions at the ports of entry to the body (e. g. abdominal wall) for reaching the surgical site. The main drawback of current designs of endoscopic tools is that they are not able to extend all the movements and sensory capabilities of the surgeons hand to the surgical site. By improving surgical procedures, training, and more practice, it is possible for surgeons to reduce completion time for each task and increase their level of skill. However, even in the best cases the level of performance of a surgeon in Minimally Invasive Surgery is still a fraction of the conventional surgery. Any dramatic improvement is usually driven by introduction of new tools or systems that in turn bring totally new procedures and set of skills.

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