

Abstract:

Surgical robotics: Historical review and future trends

Surgical robotics has been evolving since the first use in the 1980s. The commercial era began in the 1990s and has continued to progress with commercial clinical systems now available in numerous specialties. Looking at these commercial endeavors, where people have committed funds, time, and their hopes is instructive for both future developers on what and how to do things as well as for academic work on unaddressed areas as well as areas for improvement. Using data that I have been collected for more than 20 years, I'll overview and draw some insights from the efforts of over 550 companies working on more than 600 medical robots.