

Intracorporeal Robotics: From Milliscale to Nanoscale

Michael Gauthier, Nicolas Andreff, Etienne Dombre



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A promising long-term evolution of surgery relies on intracorporeal microrobotics. This book reviews the physical and methodological principles, and the scientific challenges to be tackled to design and control such robots. Three orders of magnitude will be considered, justified by the class of problems encountered and solutions implemented to manipulate objects and reach targets within the body: millimetric, sub-millimetric in the 10- 100 micrometer range, then in the 1-10 micrometer range. The most prominent devices and prototypes of the state of the art will be described to illustrate the benefit that can be expected for surgeons and patients. Future developments nanorobotics will also be discussed.

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