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Microsurgery: Advances, Simulations and Applications

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This book explains, using the example of endovascular intervention, the development of *in vitro* simulators for biomedical applications based on the scientific context in the robotics area and the explanation of the medical procedure to be simulated. It presents modeling methods for *in vitro* representation of human tissue and for representing tissue integrity during endovascular surgery simulation. Additionally, applications of this *in vitro* vasculature modeling technology are presented: flow control for human blood pressure simulation, computer fluid dynamics simulations using vasculature morphology, catheter insertion robot control and vasculature imaging based on magnetic trackers, and tailor-made scaffolds for blood vessel regeneration.

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