Implementation and assessment of Assistance-as-Needed Virtual Fixtures for Surgical Training with a daVinci surgical robot: an experimental study

Politecnico di Milano - Master of Science in Biomedical Engineering

Academic year 2022/2023

Candidate: Alberto Rota

Supervisor: prof. Elena de Momi

Abstract

1 Introduction

Since its advent in the middle of the 1980s, robotic surgery has revolutionized the healthcare industry introducting safer, more efficient and more cost-effective solutions to the challenges of surgical practices.

2 State of the art