

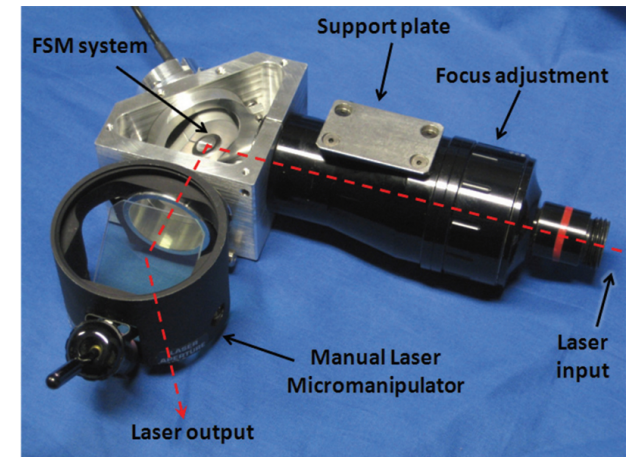
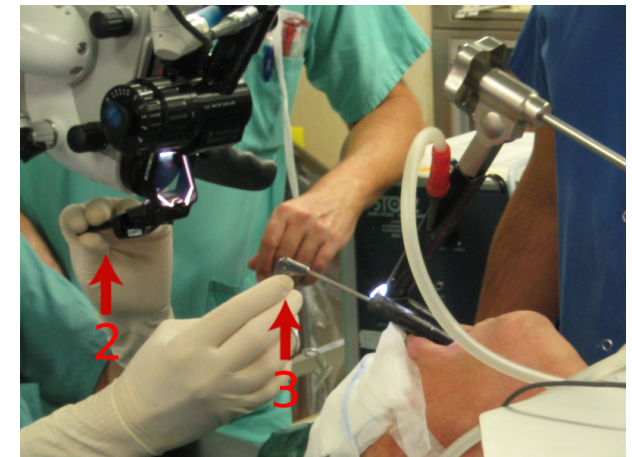
Advanced Interfaces for Laser Phonomicrosurgery

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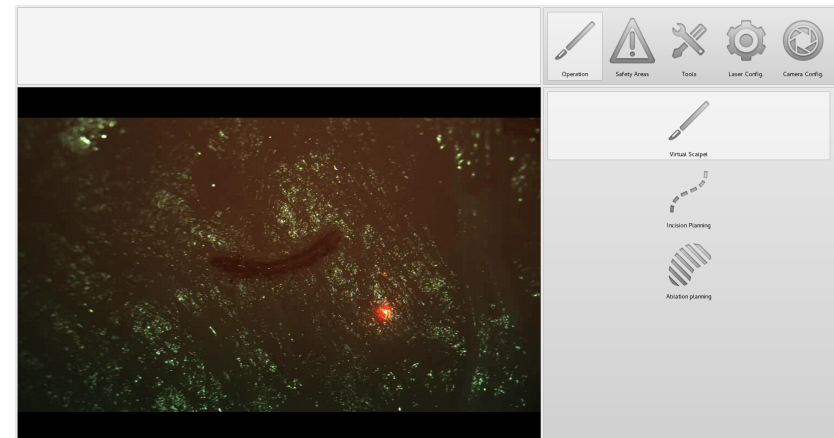
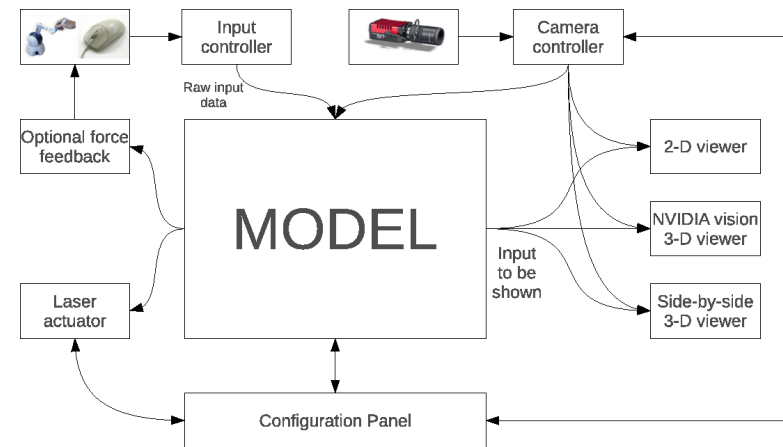


Laser Phonomicrosurgery Current Setup



Software Engineering

- Model-View-Controller structure allows teleoperation
- Interchangeability of peripherals
- Intuitive graphic user interface to assist surgical procedure

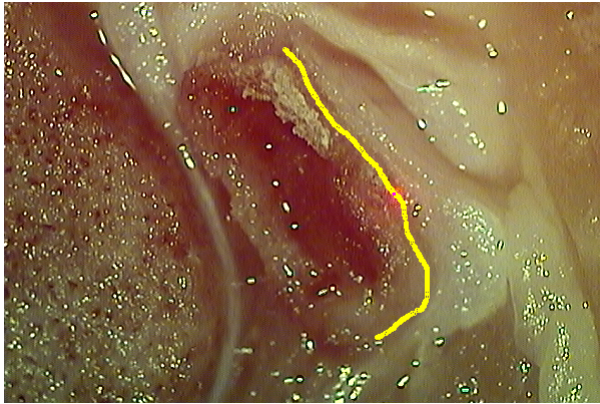


I/O User Interfaces Ergonomics

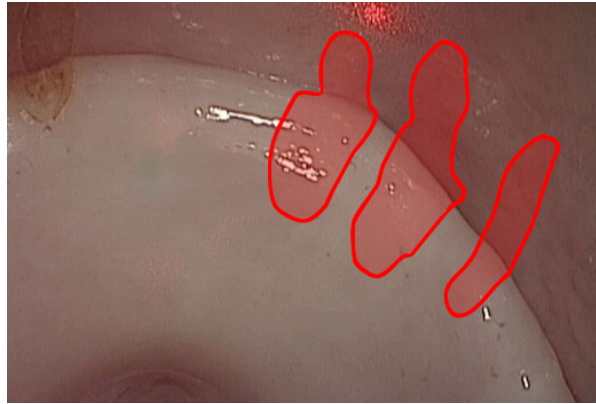


Augmented Reality

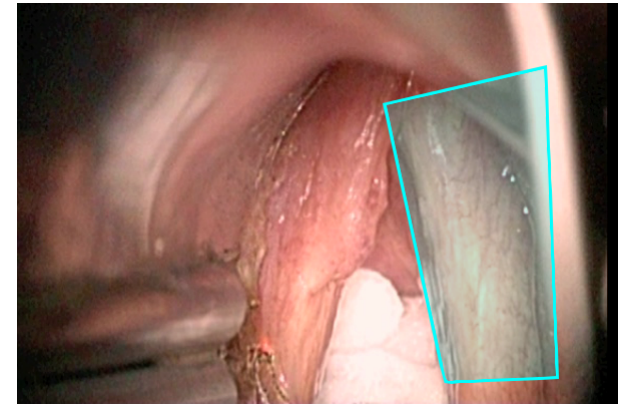
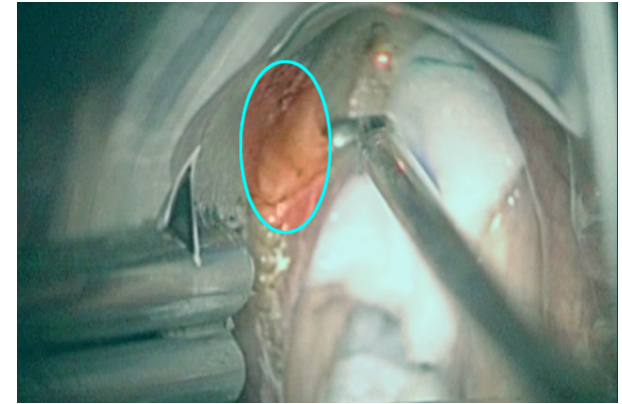
Cut Path Planning



Ablation areas



Safe Areas



Summary – Advanced Interfaces for Laser Phonomicrosurgery

- Aim: increase quality and safety of procedures, by
 - Providing an efficient and accessible graphic user interface
 - Improving ergonomics of input and output devices
 - Enhancing the surgeon's manipulation capabilities with augmented reality solutions
- For more details
 - <http://www.iit.it/>
 - <http://www.microralp.eu/>
 - <http://www.iit.it/en/people/advanced-robotics-biomedical-robotics/fellow-phd/emidio-olivieri.html>

