SOFTWARE FOR GUIDED LAPAROSCOPIC TUMOR RESECTION

CONTEXT

Augmented reality imagery and robotics associated with surgery add precision and security to the surgeon's interventions.

This technology will be the next revolution in laparosurgery.

TECHNOLOGY

Augmented reality guidance software with monocular laparoscopes which allows the surgeon to view initially-invisible anatomical structure for assisted myoma localisation in uterine laparosurgery.

The first prototype is successfully tested by clinicians for laparoscopic resection of myoma. This tool is currently adapted on other organs like kidney and liver.

ADVANTAGES / BENEFITS

● Improves surgical acts on soft organs (kidneys, liver, uterus) and capable of handling soft tissue deformation

● Improves precision and safety of laparoscopic surgery

● Reduces time in the operating room

● Training tool for clinicians

INTELLECTUAL PROPERTY

Software registration in April 8, 2015.

PARTNERSHIP

Licencing

RESEARCH TEAM

CNRS / Auvergne University
UMR 6284, ISIT Lab

Advanced Laparoscopy and Computer Vision (ALCoV) team from Clermont-Ferrand, France managed by Professor Adrien BARTOLI.

Clermont-Ferrand, FRANCE

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