

HiWi Position Available



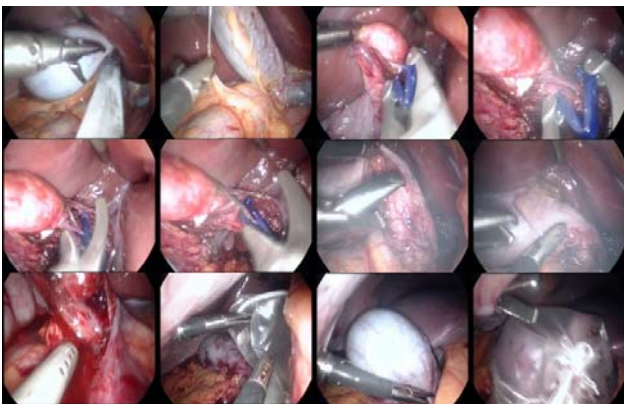
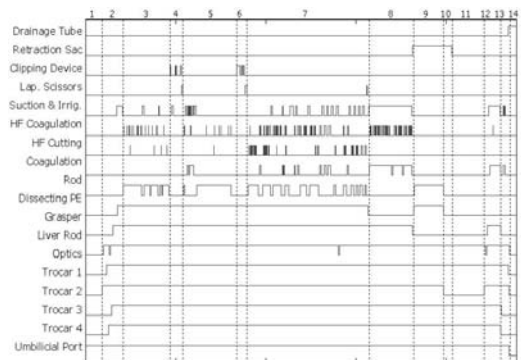
Computer Aided Medical Procedures (CAMP) | Technische Universität München
Lehrstuhl 16 Prof. Navab / Prof. Klinker

Overview

Workflow recovery is crucial for designing context-sensitive service systems in future operating rooms (ORs). Abstract knowledge about actions which are being performed is particularly valuable in the OR. This knowledge can be used for many applications such as optimizing the workflow, recovering average workflows for guiding and evaluating training surgeons, automatic report generation and ultimately for monitoring in a context aware operating room.

We currently offer an HiWi position within this project. The task is twofold: the student will first help to record surgical signals during real surgeries. He will also maintain and develop a software to acquire and synchronize information provided by several captors (RFID, inertial sensors, video cameras...) located on the instruments, on the surgical staff or in the room.

If you are interested to be involved in an interdisciplinary field and to participate in the development of software that aid in human health care, please send an eMail to Nicolas Padoy (padoy@cs.tum.edu) or Tobias Blum (blum@cs.tum.edu) with short curriculum vitae attached including your experience in programming languages.



Requirements

- The development of such software requires good programming skills and an interest in signal processing
- C++
- As the schedule of the target surgeries at the hospital is not regular, good time flexibility is necessary

Benefits

- Opportunity to work in an interdisciplinary environment
- Develop software that aids in human health care
- Learn about the vastly growing relationship between computer science and medicine

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