

## Computer-Integrated Surgery

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日時: 2009年 6月 3日 (水) 13:00 14:00  
会場: 東京大学工学部2号館3F 232号講義室

## 要旨

For many years, my research has focused on all aspects of computer-integrated interventional medicine. Broadly, this research has included:

- Medical robotics;
- Medical imaging & modeling; and
- Complete systems for surgical assistance, image-guided surgery, and what I refer to as "Surgical CAD/CAM".

An underlying theme has been the basic insight that information-based technologies can have just as profound an impact on computer-integrated medicine as it has had on computer-integrated manufacturing. Some of my current and recent research projects include work on systems, medical robotics for microsurgery and MIS, statistical modeling and deformable 2D-3D registration, radiation oncology planning, and human-machine cooperative systems in surgery.

