



Haptic research in China

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Human-Machine Interaction Lab

[Http: //haptic.buaa.edu.cn](http://haptic.buaa.edu.cn)



Outline

- **Research projects**
- **Environments**
- **Typical projects**
- **Chapter Proposal**



Research projects

- Funding:
 - NSFC: 20
 - Hi-tech R&D by MOST of China: 20 ~30
- Researchers:
 - Affiliations: University, Hospital, Research institute
 - Number: Over 15 groups, over 50 researchers
- Topics:
 - Haptic device
 - Haptic rendering
 - Applications



Environments

- National Level support:
 - National Key Lab of Virtual Reality Technology and Systems
 - China S&T Development Plan for 2005-2020
- Conferences
 - National VR & Visualization conference
 - National VR Forum
 - China-EU Virtual reality center initiative



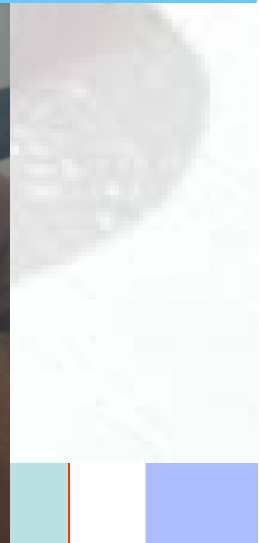
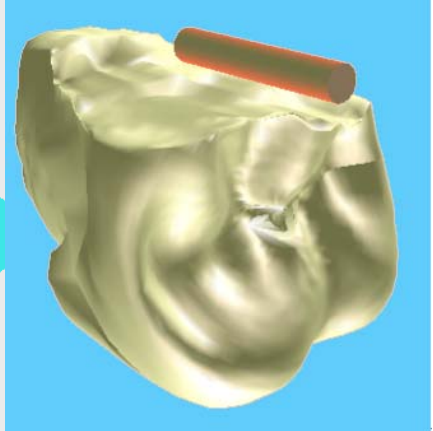
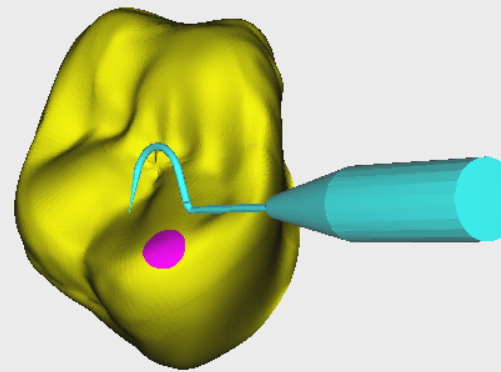
Typical Projects-1

- Dental Training system
 - Beihang University
 - the School of Stomatology, Peking University
 - Topics: Haptic device, realistic haptic rendering



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Dental Training





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Haptic devices





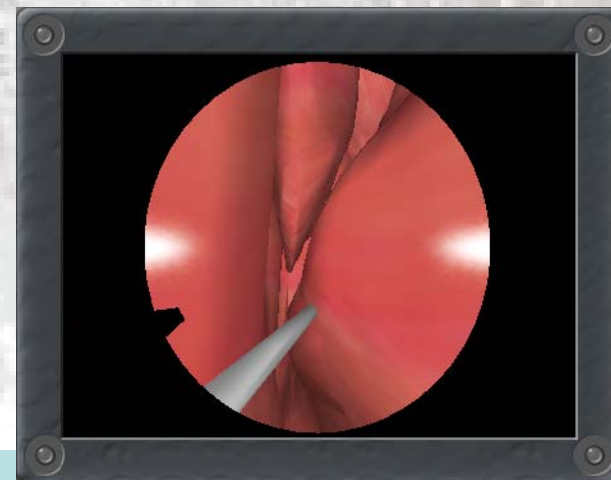
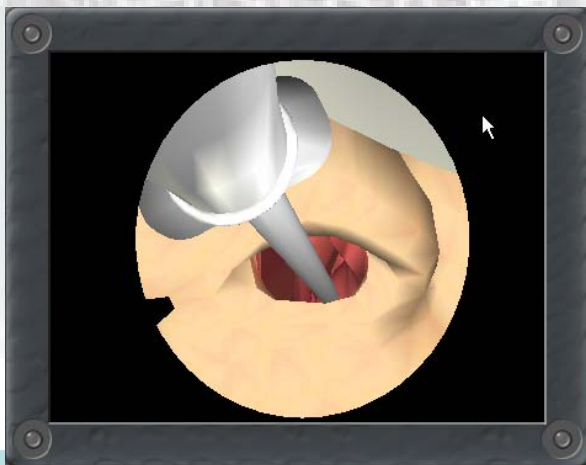
Typical Projects-2

- Simulator for Nasoscope Surgery
- General Hospital of PLA
- Topics: Physical modeling, clinical experiments



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Nasoscope Surgery



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Typical Projects-3

- Haptic display for tele-operation
- Southeast University
- Topics: Tactile devices, Stability control



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Haptic display for tele-operation



基于 Web 的遥操作机器人系统



双并联力觉接口设备





Chapter Proposal

- **Name: IEEE TCH Chapter of China**
- **Goal:**
 - Promote haptics research in China
 - Promote international collaboration
 - Promote scholar exchanges



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Thank you

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