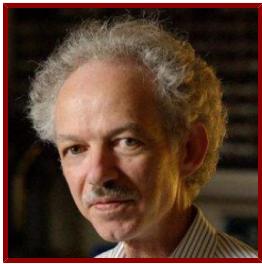


Stanford



J Kenneth Salisbury, Jr.

Professor (Research) of Computer Science and of Surgery (Anatomy), Emeritus

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Salisbury worked on the development of the Stanford-JPL Robot Hand, the JPL Force Reflecting Hand Controller, the MIT-WAM arm, and the Black Falcon Surgical Robot. His work with haptic interface technology led to the founding of SensAble Technology, producers of the PHANToM haptic interface and software. He also worked on the development of telerobotic systems for dexterity enhancement in the operating room. His current research focuses on human-machine interaction, cooperative haptics, medical robotics, and surgical simulation.

ACADEMIC APPOINTMENTS

- Professor Emeritus, Computer Science
- Member, Bio-X

PROFESSIONAL EDUCATION

- PhD, Stanford University , Mechanical Engineering (1982)
- MS, Stanford University , Mechanical Engineering (1977)
- BS, Stanford University , Electrical Engineering (1975)

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Crystal Winston

Doctoral Dissertation Advisor (AC)

Connor Yako

Master's Program Advisor

Jasmine Steele

Undergraduate Major Advisor

Allie Littleton

Publications

PUBLICATIONS

- **Designing Underactuated Grasps with Dynamically Variable Geometry Using Potential Energy Map Based Analysis**
Yako, C. L., Yuan, S., Salisbury, J., IEEE
IEEE.2022: 4638-4645
- **Towards Human Haptic Gesture Interpretation for Robotic Systems**
Bianchini, B., Verma, P., Salisbury, J., IEEE
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- **Design and Control of Roller Grasper V2 for In-Hand Manipulation**
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- **Design of a Roller-Based Dexterous Hand for Object Grasping and Within-Hand Manipulation**
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- **Visual Vein-Finding for Robotic IV Insertion** *IEEE International Conference on Robotics and Automation (ICRA)*
Brewer, R. D., Salisbury, J. K.
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- **Reconstruction and exploration of virtual middle-ear models derived from Micro-CT datasets.** *Hearing Res.*
Lee, D. H., Chan, S., Salisbury, C., Kim, N., Salisbury, K., Puria, S.
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- **Intelligent Road Sign Detection Using 3D Scene Geometry**

- Schlosser, J., Montemerlo, M., Salisbury, K.
2010
- **Using Near-Field Stereo Vision for Robotic Grasping in Cluttered Environments**
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 - **Laser Cutting Speeds Robotics Prototyping** *Product Design and Development*
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 - **Telerobotic System Concept for Real-Time Soft-Tissue Imaging During Radiotherapy Beam Delivery** *Med. Phys.*
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 - **Providing Metrics and Performance Feedback in a Surgical Simulator** *Computer Aided Surgery (2008)*
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2004

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1998

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