

# Industrial Robots Organizers & Chairs: Hadi Akeel, Steve Holland

## Product and Technology Trends for Industrial Robotics

Hadi A. Akeel<sup>1</sup> and Steven W. Holland<sup>2</sup>

<sup>1</sup>FANUC Berkeley Laboratory and <sup>2</sup>General Motors Corporation

## Robot Mechanisms

Brian Carlisle

Adept Technology Inc.

- Classes of robot mechanisms are reviewed.
- Examples of various robot mechanisms are provided.
- Technology constraints on robot mechanism design are discussed.
- Areas for technology development are presented.



## Robotics: The Future is so Bright

Craig Jennings

Motoman Robotics

- Robot Industry is Soaring
- Robot Technology Advancements
- Movement Toward Total Robot Solutions
- New Robot Markets Expanding



## Underwater Robotics: Out of the Research Laboratory and Into the Field

Louis L. Whitcomb

Johns Hopkins University

- Survey of commercial underwater robotics.
- Industry demands two new classes of underwater vehicles:
  - - Deep-diving work-class remotely operated vehicles.
  - - Survey-class autonomous vehicles.



## The PC and its Influence on Robot Controllers

Gary Rutledge

FANUC Robotics

- What has been the impact of PC's on robot controller design?
- Compare the architectures of several controllers.
- Most robot controllers follow a similar architecture.
- The PC augmented controller architecture is most common.

