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PURDUE UNIVERSITY

Department of Computer Science

## Direct Patient Interaction: Robotic Surgery

- Why?
  - Micro-surgery
  - Sterile
- Is this AI?
- But what about:
  - Preventing errors
  - Speed surgeons plan, machine executes
  - Remote delay
    Prof. Yexiang Xue, SARTRES



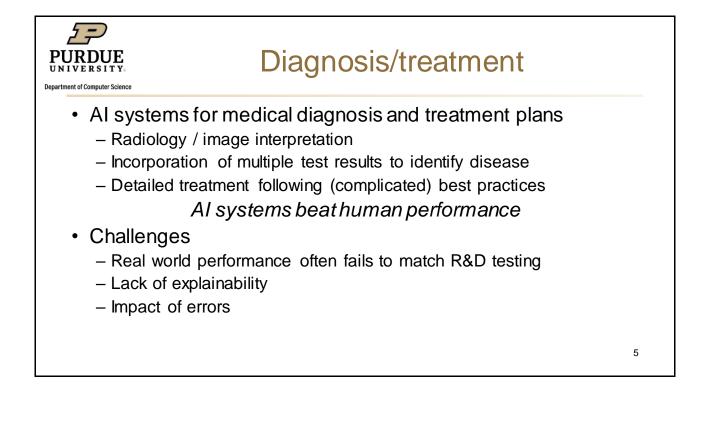
## Direct Patient Interaction: Non-surgery medical devices

- Increasing automation in medical devices
  - New capabilities
  - Reduce error
- But limitations / reliability issues
  - Real world is a messy environment
- Can AI address this?
  - What about errors?
  - Again, research at Purdue



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- · Healthcare is expensive
  - Do we really need a hospital on campus?
  - Are there better ways to spend \$70 million?
- · Al for prediction/planning
  - Population growth
  - Traffic prediction
  - Healthcare needs
  - -???

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