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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



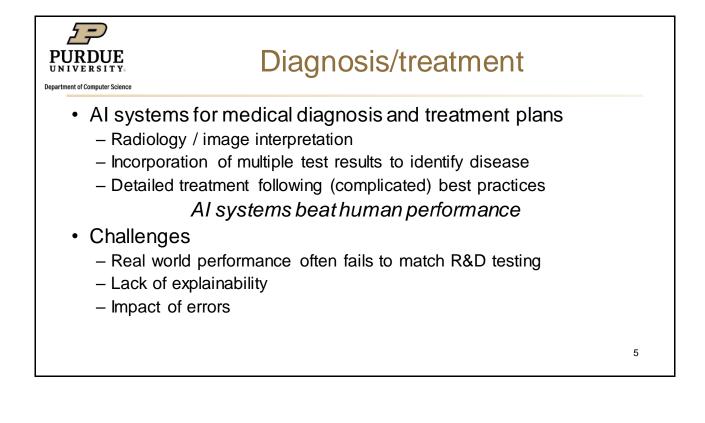
Direct Patient Interaction: Non-surgery medical devices

- 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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