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TWiki Tip of the Day

Custom rendered bullets

The RenderListPlugin can render bulleted lists in a variety of different ways. Use %RENDERLIST{ parameters ... [Read on](#) »

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r12 - 21 Jul 2008 - 12:28:47 - AllisonWhite

Robot Learning

This team will work with artificial intelligence and the latest in robot technology.

**The Team**

Alex Stoytchev?	Faculty member
Jivko Sinapov	Graduate student mentor
Matt Miller	Graduate student mentor
Allison White	Intern tasks?
John (Cody) Glover?	Intern
Brian Russell	Intern

Possible Resources

1. [Visual and Haptic Collaborative Tele-presence](#) - Robot interacts with a 3D AR model
 2. [Using the WAM as a Master Controller](#) -Barrett 7 [DoF?](#) arm used to control 6DoF arm
 3. [arm grounded haptic tele-manipulation](#) - tests accuracy of perception when using a haptic glove to operate a robot hand
 4. [testing of telemanipulation system](#) - tests performance with haptic glove
 5. [Haptic Perception of Spatial Relations](#) -human performance without any robots
 6. [Non-Informative Vision Improves Haptic Spatial Perception](#) -human performance, no robot, no vision of objects being manipulated
 7. [arm kinematics and dynamics](#) -detailed explanations of equations for 2 joints in 2 dimensions
 8. [context sensitive learning network](#) -converts cartesian space to joint space - efficient method for computing inverse jacobian
 9. [The Tricept robot: Inverse kinematics, manipulability analysis and closed-loop direct kinematics algorithm](#) -looks promising, but no link to actual article
 10. [Direct Kinematics of Parallel Manipulators](#) -another article that can probably help to develop the right equations
- Modeling and Control of Robot Manipulators
11. [Analysis of HRI](#) -describes criteria robots should be evaluated by
 12. [bilateral teleoperation](#) -design of bilateral teleoperation system
 13. [timeline](#) -timeline of approaches to teleoperation
 14. [\[\[http://delivery.acm.org/10.1145/1350000/1349831/p57-levin.pdf\]](http://delivery.acm.org/10.1145/1350000/1349831/p57-levin.pdf)

key1=1349831&key2=3381684121&coll=GUIDE&dl=GUIDE&CFID=34884829&CFTOKEN=45004478][Concepts About the Capabilities of Computers and Robots: A test of the scope of adults' theory of mind]]

15. [Theory and Evaluation of Human Robot Interactions](#)

16. [Teleoperation, telerobotics](#) -long, but looks really useful

17. [A hybrid elastic model for real-time cutting, deformations, and force feedback for surgery training and simulation](#)

18. [size/weight illusion](#)

19. [deafferented weight judgment](#)

20.

[[<http://www.springerlink.com/content/y8140v13375j4t48/fulltext.pdf>][Kinematic cues in perceptual weight judgement and their origins in box lifting]]

21. [A SAFE-CONTROL PARADIGM FOR HUMAN-ROBOT INTERACTION](#)

22. [Sensation-Preserving Haptic Rendering](#)

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