

CSCE 990 Robotics

Mon Aug 23, 2010

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Tue Aug 24, 2010

All day Fill out survey

Calendar: CSCE 990 Robotics

Wed Aug 25, 2010

All day Reading: Challenges for robot manipulation in human environments

Where: http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4141029
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Fri Aug 27, 2010

All day Reading: Touch Based Perception for Object Manipulation

Where:
http://projects.csail.mit.edu/manipulation/rss07/paper__touch_based_perception_for_object_manipulation__petrovskaya.pdf
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

Mon Aug 30, 2010

All day Brent and Jack Led Class

Calendar: CSCE 990 Robotics

All day Reading: A Sensitive Approach to Grasping

Where:
<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.126.9807&rep=rep1&type=pdf>
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Wed Sep 1, 2010

All day

Reading: The Highly Adaptive SDM Hand: Design and Performance Evaluation

Where: <http://ijr.sagepub.com/cgi/content/abstract/29/5/585>
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Fri Sep 3, 2010

All day Reading: Evolved and Designed Self-Reproducing Modular Robotics

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4154840
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

Mon Sep 6, 2010

All day UNL Holiday -- No Class

Calendar: CSCE 990 Robotics

Wed Sep 8, 2010

All day

Reading: Crystalline Robots: Self-Reconfiguration with Compressible Unit Modules

Where: <http://www.springerlink.com/index/k546201464164331.pdf>
Calendar: CSCE 990 Robotics

All day Student Led Class

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

CSCE 990 Robotics

Fri Sep 10, 2010

All day

Reading: Optimal Coverage for Multiple Hovering Robots with Downward-Facing Cameras

Where: <http://people.csail.mit.edu/schwager/MyPapers/SchwagerICRA09.pdf>

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

Mon Sep 13, 2010

All day Reading: Transitioning multiagent technology to UAV applications

Where: <http://portal.acm.org/citation.cfm?id=1402795.1402812>

Calendar: CSCE 990 Robotics

All day Student Led Class

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Wed Sep 15, 2010

All day Reading: Collaborative multi-robot exploration

Where:

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.84.2897&rep=rep1&type=pdf>

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Fri Sep 17, 2010

All day

Reading: Inspiring and Modeling Multi-Robot Search with Particle Swarm Optimization

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4223193

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

CSCE 990 Robotics

Mon Sep 20, 2010

All day Final Project Groups Due

| **Calendar:** CSCE 990 Robotics

All day

| **Reading:** [A distributed boundary detection algorithm for multi-robot systems](#)

| **Where:**

| <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.145.6199&rep=rep1&type=pdf>

| **Calendar:** CSCE 990 Robotics

All day Student Led Class

| **Calendar:** CSCE 990 Robotics

10:30am Class

| **Where:** Avery 118

| **Calendar:** CSCE 990 Robotics

11:30am Office Hours

| **Where:** 109 Schorr

| **Calendar:** CSCE 990 Robotics

Wed Sep 22, 2010

All day Group Meetings

| **Calendar:** CSCE 990 Robotics

10:10am Beau

| **Calendar:** CSCE 990 Robotics

10:30am Chi Min and Wei Jian

| **Calendar:** CSCE 990 Robotics

10:50am Tyler, Ryan, and Jack

| **Calendar:** CSCE 990 Robotics

Fri Sep 24, 2010

All day Group Meetings

| **Calendar:** CSCE 990 Robotics

9:50am Mike and Derrick

| **Calendar:** CSCE 990 Robotics

10:10am Alex and Brent

| **Calendar:** CSCE 990 Robotics

10:30am Tom and Nikhil

| **Calendar:** CSCE 990 Robotics

10:50am Jayasri and Yutaka

| **Calendar:** CSCE 990 Robotics

11:10am Abolfazi

| **Calendar:** CSCE 990 Robotics

CSCE 990 Robotics

11:30am Celestin

| **Calendar:** CSCE 990 Robotics

11:50am Charles and Javier

| **Calendar:** CSCE 990 Robotics

Mon Sep 27, 2010

All day

| **Reading: Robust distributed network localization with noisy range measurements**

| **Where:** <http://portal.acm.org/citation.cfm?id=1031502>

| **Calendar:** CSCE 990 Robotics

All day Student Led Class

| **Calendar:** CSCE 990 Robotics

9:30am Katie and Amanda

| **Calendar:** CSCE 990 Robotics

10am Chris

| **Calendar:** CSCE 990 Robotics

10:30am Class

| **Where:** Avery 118

| **Calendar:** CSCE 990 Robotics

11:30am Office Hours

| **Where:** 109 Schorr

| **Calendar:** CSCE 990 Robotics

Wed Sep 29, 2010

All day Reading: An Introduction to the Kalman Filter

| **Where:** <http://www.cs.unc.edu/~welch/kalman/kalmanIntro.html>

| **Calendar:** CSCE 990 Robotics

10:30am Class

| **Where:** Avery 118

| **Calendar:** CSCE 990 Robotics

11:30am Office Hours

| **Where:** 109 Schorr

| **Calendar:** CSCE 990 Robotics

Mon Oct 4, 2010

All day Project Proposal Due

| **Calendar:** CSCE 990 Robotics

10:30am Class

| **Where:** Avery 118

| **Calendar:** CSCE 990 Robotics

11:30am Office Hours

| **Where:** 109 Schorr

| **Calendar:** CSCE 990 Robotics

CSCE 990 Robotics

Wed Oct 6, 2010

All day Reading: Stanley: The Robot That Won the DARPA Grand Challenge

Where: <http://www.springerlink.com/content/r01240114858137n/>

Calendar: CSCE 990 Robotics

All day Student Led Class

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Fri Oct 8, 2010

All day Reading: Simultaneous localization and mapping: part I

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1638022

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

Mon Oct 11, 2010

All day Flying Fast and Low Among Obstacles

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4209383

Calendar: CSCE 990 Robotics

All day Student Led Class

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Wed Oct 13, 2010

All day

A Single-Query Bi-Directional Probabilistic Roadmap Planner with Lazy Collision Checking

Where: <http://www.springerlink.com/index/9843341054386hh6.pdf>

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

CSCE 990 Robotics

Fri Oct 15, 2010

All day Autonomous flight in unstructured and unknown indoor environments

Where: http://www.emav2009.org/EMAV-final-papers/paper_62.pdf

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

Mon Oct 18, 2010

All day UNL Holiday -- No Class

Calendar: CSCE 990 Robotics

Wed Oct 20, 2010

All day

Experimental Results for Over-the-Horizon Planetary Exploration Using a LIDAR Sensor

Where: <http://www.springerlink.com/content/w2146x018575551t/>

Calendar: CSCE 990 Robotics

All day Student Led Class

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Fri Oct 22, 2010

All day An introduction to inertial navigation

Where:

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.63.7402&rep=rep1&type=pdf>

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

Mon Oct 25, 2010

All day

Combined optic-flow and stereo-based navigation of urban canyons for a UAV

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1544998

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Wed Oct 27, 2010

All day Parallel Tracking and Mapping for Small AR Workspaces

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Mon Nov 1, 2010

All day Student Led Class

Calendar: CSCE 990 Robotics

All day

Vision based MAV navigation in unknown and unstructured environments

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5509920&tag=1
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Wed Nov 3, 2010

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Fri Nov 5, 2010

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

CSCE 990 Robotics

Mon Nov 8, 2010

All day

Introduction to inverse kinematics with jacobian transpose, pseudoinverse and damped least squares methods

Where:

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.73.8406&rep=rep1&type=pdf>

Calendar: CSCE 990 Robotics

All day Project Status Report Due

Calendar: CSCE 990 Robotics

All day Student Led

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Wed Nov 10, 2010

All day

Optimal Path Planning for Robotic Insertion of Steerable Electrode Arrays in Cochlear Implant Surgery

Where: <http://link.aip.org/link/?JMDOA4/3/011001/1>

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Fri Nov 12, 2010

All day Efficient Bipedal Robots Based on Passive-Dynamic Walkers

Where: http://groups.csail.mit.edu/robotics-center/public_papers/Collins05.pdf

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

Mon Nov 15, 2010

All day PID Control

Where: http://en.wikipedia.org/wiki/PID_controller

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics

CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Wed Nov 17, 2010

All day

Force Tracking With Feed-Forward Motion Estimation for Beating Heart Surgery

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5549926
Calendar: CSCE 990 Robotics

All day Student Led

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Fri Nov 19, 2010

All day Collective Motion, Sensor Networks, and Ocean Sampling

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4118466
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

Mon Nov 22, 2010

All day Article Review Due

Calendar: CSCE 990 Robotics

All day Final Project Paper Due

Calendar: CSCE 990 Robotics

All day Navigating multiple simple-airplanes in 3D workspace

Where: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5509580
Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Wed Nov 24, 2010

All day UNL Holiday -- No Class

Calendar: CSCE 990 Robotics

CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Fri Nov 26, 2010

All day UNL Holiday -- No Class

Calendar: CSCE 990 Robotics

Mon Nov 29, 2010

All day Final Paper Article Reivew Due

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Wed Dec 1, 2010

All day Start of Paper Presentations

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Fri Dec 3, 2010

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

Mon Dec 6, 2010

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr
Calendar: CSCE 990 Robotics

Wed Dec 8, 2010

10:30am Class

Where: Avery 118
Calendar: CSCE 990 Robotics

CSCE 990 Robotics

11:30am Office Hours

Where: 109 Schorr

Calendar: CSCE 990 Robotics

Fri Dec 10, 2010

All day End of Paper presentations

Calendar: CSCE 990 Robotics

10:30am Class

Where: Avery 118

Calendar: CSCE 990 Robotics