

# CS790Q: Machine Learning (Biometrics) Fall 2005

## Schedule of Presentations

~ Date	Topic	Name
8/29	Administrivia	Bebis
8/31	Intro to Biometrics	Bebis
	<b>Book1: Guide to Biometrics</b>	
9/5	Labor Day – no classes	
9/7	Chapters 1,2	Uz
9/12	Chapters 3,4	Jia
9/14	Chapter 5	Tavakkoli
9/19	Chapter 6	Miles
9/21	Chapter 7	Palathingal
9/26	Chapter 8	Dogiparthi
9/28 & 10/3	Chapter 9	Liu
	Chapter 10 – assigned for reading	
10/5	Chapter 11	Amayeh
10/10	Chapter 12	Loss
	Chapter 13- assigned for reading	
10/12 & 10/17	Chapter 14 *	Zirpe
10/19 & 10/24	Chapter 15	Erol
	Chapter 16 - skip	
	Chapter 17 – assigned for reading	

10/26	<p>M. Turk and A. Pentland, "Eigenfaces for Recognition", <b>Journal of Cognitive Neuroscience</b>, vol. 3, no. 1, pp. 71-86, 1991.</p> <p>&amp;</p> <p>Daniel L. Swets, John Weng, "Using Discriminant Eigenfeatures for Image Retrieval", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol 18, no 8 , pp. 831-836, 1996.</p>	Bebis
	<b>Book2: Handbook of Fingerprint Recognition</b>	
10/31	Sections 1.6-1.19 and Chapter 2	Konda
11/2	<p>Chapter 3 - Sections 3.1 – 3.6</p> <p>&amp;</p> <p>N. Ratha, et al, "Adaptive Flow Orientation Based Feature Extraction in Fingerprint Images", <b>Pattern Recognition</b>, vol. 28, no. 11, pp. 1657-1672, 1995.</p>	Uz
11/7	<p>Chapter 3 – Sections 3.7 – 3.10</p> <p>&amp;</p> <p>D. Mario and D. Maltoni, "Direct Gray-Scale Minutiae Detection in Fingerprints", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 19, no. 1, pp. 27-39, 1997.</p>	Palathingal
11/9	<p>Chapter 4 – Sections 4.1 – 4.3</p> <p>&amp;</p> <p>A. Jain, Lin Hong; R. Bolle, "On-line fingerprint verification", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 19, no. 4, pp. 302-314, 1997.</p>	Miles

11/14	<p>Chapter 4 – Sections 4.4 – 4.8</p> <p>&amp;</p> <p>A. Jain et al., "Filterbank-Based Fingerprint Matching", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 9, no. 5, pp. 846-859, 2000.</p>	Tavakkoli
11/16	<p>Chapter 5 – Sections 5.1 – 5.2</p> <p>&amp;</p> <p>R. Cappelli et al., "Fingerprint classification by directional image partitioning", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 21, no. 5, pp. 402-421, 1999.</p>	Zirpe
11/21	<p>Chapter 5 – Sections 5.3 – 5.5</p> <p>&amp;</p> <p>R. Germain et al., "Fingerprint matching using transformation parameter clustering", <b>IEEE Computational Science and Engineering</b>, vol 4, no. 4, pp. 42-49, 1997.</p> <p>&amp;</p> <p>G. Bebis et al., "Fingerprint Identification Using Delaunay Triangulation", <b>IEEE International Conference on Intelligence, Information and Systems</b> , pp. 452-459, 1999</p>	Konda
11/23	<p>V. Blanz and T. Vetter, "Face Recognition Based in Fitting a 3D Morphable Model", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 25, no. 9, pp. 1063-1074, 2003.</p> <p>&amp;</p> <p>Z. Pan et al., "Face Recognition in Hyperspectral Images", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 25, no. 12, pp. 1552-1560, 2003.</p>	Loss

11/28	<p>L. Hong and A. Jain, "Integrating Faces and Fingerprints for Personal Identification", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 20, no. 12, pp. 1295-1307, 1998.</p> <p>&amp;</p> <p>K. Chang et al., "Comparison and Combination of Ear and Face Images in Appearance-Based Biometrics, <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 25, no. 9, pp. 1160-1165, 2003.</p>	Liu
11/30	<p>A. Jain et al., "A Prototype Hand Geometry-Based Verification System", <b>Int. Conference on Audio- and Video-Based Biometric Person Authentication</b>, pp. 166-171, 1999.</p> <p>&amp;</p> <p>S. Ribaric and I. Fratic "A Biometric Identification System Based on Eigenpalm and Eigenfinger Features", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 27, no. 11, pp. 1698-1709, 2005.</p>	Amayeh
12/5	<p>M. Negin et al., "An Iris Biometric System for Public and Personal Use", <b>IEEE Computer</b>, pp. 70-75, February 2000.</p> <p>&amp;</p> <p>R. Wildes, "Iris Recognition: An Emerging Biometric Technology", <b>Proceedings of the IEEE</b>, vol 85, no. 9, pp. 1348-1363, 1997.</p>	Jia

12/7	<p>H. Chen and A. Jain, "Dental Biometrics: Alignment and Matching of Dental Radiographs", <b>IEEE Transactions on Pattern Analysis and Machine Intelligence</b>, vol. 27, no. 8, pp. 1319-1326, 2005.</p> <p>&amp;</p> <p>N. Miura et al., "Feature Extraction of Finger-Vein Patterns Based on Repeated Line Tracking and Its Application to Personal Identification", <b>Machine Vision and Applications</b>, vol. 15, pp. 194-203, 2004</p>	Dogiparthi
12/12	<p>U. Uludag et al., "Biometric Cryptosystems: Issues and Challenges", <b>Proceedings of the IEEE</b>, vol 92, no. 6, pp. 948-960, 2004.</p>	Erol