

## Fei Wang

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### CONTACT INFORMATION

ECS Building 251  
School of CIS  
Florida International University  
Miami, FL 33199

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### RESEARCH INTERESTS

Text Mining, Multimedia Analysis, Information Retrieval, Image Segmentation, Face Recognition, Social Network Analysis, Collaborative Filtering, Relational Learning, Bioinformatics

### EDUCATION

**Tsinghua University**, Beijing, P. R. China

Ph.D., Department of Automation, July 2008

- Dissertation Title: “Graph-based Semi-supervised Learning”
- Advisor: Changshui Zhang

**Xidian University**, Xi’an, School of Mechanics and Electricities, P. R. China

B.A., Automation, July, 2003

### HONORS AND AWARDS

- First class excellent doctoral thesis, Tsinghua University, 2008.
- New Academic Star, Department of Automation, Tsinghua University, 2008
- Excellent Graduate Student, Tsinghua University, 2007
- New Academic Star Honorable Mention, Tsinghua University, 2007
- New Academic Star, Department of Automation, Tsinghua University, 2007
- Student Travel Grant, The 7th SIAM International Conference on Data Mining (SDM), 2007
- Student Travel Grant, The 23rd International Conference on Machine Learning (ICML), 2006
- Student Travel Grant, The 24th IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), 2006
- Second grade scholarship for excellent graduate student, Tsinghua University, 2006
- Schneider Scholarship, Tsinghua University, 2005
- Excellent bachelor graduate award (top 2%), Xidian University, 2003
- Excellent bachelor graduate award (top 5%), Shaanxi Province, 2003
- First grade scholarships for three successive years, Xidian University, 1999-2002

### RESEARCH EXPERIENCE

**Postdoctoral Researcher** at Florida International University, Miami, Florida **Sept. 2008 - Now**

- Developed a semi-parametric semi-supervised discriminant analysis method
- Developed a neighborhood discriminant tensor mapping algorithm
- Developed a KL clustering method which can make use of the data and their relationships.

**Phd Candidate** at Tsinghua University, Beijing, China **September, 2003 - July, 2008**

- Co-developed a fast linear time transductive support vector machine method
- Co-developed a fast linear time maximum margin clustering method
- Developed a novel semi-supervised learning algorithm based on electrostatic field models
- Developed a novel gene selection algorithm based on matrix factorization
- Co-developed a novel manifold alignment algorithm based on relevant comparison constraints
- Developed a novel clustering algorithm by local and global regularization

- Developed a novel feature extraction method on neighborhood graph
- Extending the mean-field approach to semi-supervised learning scenario
- Developed a multilevel approach to accelerate the graph based semi-supervised learning methods
- Developed a novel scheme for graph based semi-supervised learning based on the linear neighborhood assumption
- Co-developed a semi-supervised Gaussian process approach for MR image segmentation
- Co-developed a method for tuning the hyperparameters in graph based semi-supervised learning
- Developed a method for robust graph-based semi-supervised learning
- Developed a feature extraction method based on spectral clustering
- Extending spectral clustering to time series data
- Developed boosting GMM for consensus clustering and short-term traffic flow prediction

**Research Internship** at IBM China Research Lab, Beijing, China **Dec. 2007 - Now**

- Developed a discriminative regularization method for classification

**Visiting Student** in Hong Kong University of Science and Technology **Sep. - Nov., 2007**

- Developed a fast semi-supervised learning algorithm based on electrostatic field models

**Visiting Student** in Florida International University, Miami, Florida **June - July, 2007**

- Developed a general learning framework using local and global regularization
- Developed a novel gene selection method based on matrix factorization

**Research Internship** at IBM China Research Lab, Beijing, China **Nov. 2006 - Apr. 2007**

- Developed a decomposed manifold searching scheme for optimize the resource deployment in the virtualized environment

**Research Internship** at Vivido Media Inc., Beijing, China **Sep., 2006 - Sep. 2007**

- Developed a user-based recommendation system based on Java
- Developed a novel item-based recommendation method based on the spectral graph theory

## PUBLICATIONS

### Book Chapter

1. Liang Xiong, **Fei Wang**, Changshui Zhang. Guide Manifold Alignment by Relative Comparisons. Invited Chapter in Encyclopedia of Data Warehousing and Mining - 2nd Edition. To Appear.

### Journal Paper

1. Bin Zhao, **Fei Wang**, Changshui Zhang. Block Quantized Support Vector Ordinal Regression. IEEE Transactions on Neural Networks (**TNN**), 2009. To Appear.
2. **Fei Wang**, Changshui Zhang, Tao Li. Clustering with Local and Global Regularization. IEEE Transactions on Knowledge and Data Engineering (**TKDE**). To Appear. 2009.
3. Peng Cui, Lifeng Sun, **Fei Wang**, Shiqiang Yang. Contextual Mixture Tracking. IEEE Transactions on Multimedia (**TMM**). To Appear. 2009.
4. Jingdong Wang, **Fei Wang**, Changshui Zhang, Helen C. Shen, Long Quan. Linear Neighborhood Propagation and Its Applications. IEEE Transactions on Pattern Analysis and Machine

- Intelligence (**TPAMI**). To Appear. 2009.
5. **Fei Wang**, Changshui Zhang. Semi-Supervised Learning Based on Generalized Point Charge Models. *IEEE Transactions on Neural Networks (TNN)*, vol. 19, no.7, 1307-1311. 2008.
  6. **Fei Wang**, Changshui Zhang. Label Propagation Through Linear Neighborhoods. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, vol.20, no.1, 55-67. 2008.
  7. Yangqiu Song, Changshui Zhang, Jianguo Lee, **Fei Wang**, Shiming Xiang, Dan Zhang. Semi-Supervised Discriminative Classification with Application to Tumorous Tissues Segmentation of MR Brain Images. *Pattern Analysis & Applications (PAA)*, To Appear. 2008.
  8. **Fei Wang**, Jingdong Wang, Changshui Zhang, James T. Kwok. Face Recognition Using Spectral Features. *Pattern Recognition*, vol.40 (10), 2786-2797, 2007.
  9. Gang Chen, **Fei Wang**, Changshui Zhang. Collaborative Filtering Using Orthogonal Non-negative Matrix Tri-Factorizations. *Information Processing & Management (IP & M)*. To Appear. 2009.
  10. **Fei Wang**, Xin Wang. Neighborhood Discriminative Tensor Embedding. *Neurocomputing*. To Appear. 2009.
  11. **Fei Wang**, Changshui Zhang. Robust Self-Tuning Semi-Supervised Learning. *Neurocomputing* 70, 2931-2939. 2007.

### Conference Paper

1. **Fei Wang**, Xin Wang and Tao Li. Beyond the Graphs: Semi-Parametric Semi-Supervised Discriminant Analysis. *Proceedings of the 27th IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR)*. Miami, Florida, USA, 2009.
2. Bin Zhao, James Kwok, **Fei Wang**, Changshui Zhang. Unsupervised Maximum Margin Feature Selection with Manifold Regularization. *IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR)*. Miami, Florida, USA. To Appear. 2009.
3. Gang Chen, Jianwen Zhang, **Fei Wang**, Changshui Zhang. Efficient Multi-Label Learning with Hypergraph Regularization. *IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR)*. Miami, Florida, USA. To Appear. 2009.
4. **Fei Wang**, Chris Ding, Tao Li. Integrated KL (K-means - Laplacian) Clustering: A New Clustering Approach by Combining Attribute Data and Pairwise Relations. *The 9th SIAM Conference on Data Mining (SDM)*. Sparks, Nevada. To Appear. 2009.
5. Peng Cui, **Fei Wang**, Li-Feng Sun, Shi-Qiang Yang. A Joint Matrix Factorization Approach to Unsupervised Action Categorization. *The 8th IEEE International Conference on Data Mining (ICDM)*. Pisa, Italy. 15-19, Dec. 2008. To Appear.
6. Bin Zhao, **Fei Wang**, Changshui Zhang. Maximum Margin Embedding. *The 8th IEEE International Conference on Data Mining (ICDM)*. Pisa, Italy. 15-19, Dec. 2008. To Appear.
7. **Fei Wang**, Shouchun Chen, Tao Li, Changshui Zhang. Semi-Supervised Metric Learning by Maximizing Constraint Margin. *Proceedings of The ACM 17th Conference on Information and Knowledge Management (CIKM)*, 1457-1458. Napa Valley, California, USA. 2008.
8. Shouchun Chen, **Fei Wang**, Yangqiu Song, Changshui Zhang. Semi-supervised Ranking Aggregation. *Proceedings of The ACM 17th Conference on Information and Knowledge Management (CIKM)*, 1427-1428. Napa Valley, California, USA. 2008.
9. Bin Zhao, **Fei Wang**, Changshui Zhang. CutS3VM: A Fast Semi-Supervised SVM Algorithm. *Proceedings of The 14th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD)*, 830-838. Las Vegas, Nevada, USA. 2008.
10. Dan Zhang, **Fei Wang**, Zhenwei Shi, Changshui Zhang. Localized Content-Based Image Retrieval Using Multiple Instance Active Learning. *Proceedings of The 15th IEEE International Conference on Image Processing (ICIP)*, 921-924. 2008.

11. Bin Zhao, **Fei Wang**, Changshui Zhang. Efficient Multi-class Maximum Margin Clustering. Proceedings of The 25th International Conference on Machine Learning (**ICML**), 1248-1255. 2008.
12. **Fei Wang**, Changshui Zhang. On Discriminative Semi-supervised Classification. Proceedings of The 23rd AAAI Conference on Artificial Intelligence (**AAAI**), 720-725. July 13-17, Chicago, Illinois, USA. 2008.
13. **Fei Wang**, Tao Li, Gang Wang, Changshui Zhang. Semi-supervised Classification Using Local and Global Regularization. Proceedings of The 23rd AAAI Conference on Artificial Intelligence (**AAAI**), 726-731. July 13-17, Chicago, Illinois, USA. 2008.
14. Bin Zhang, **Fei Wang**, Ta-Hsin Li, Wen jun Yin, Jin Dong. Classification by Discriminative Regularization. Proceedings of The 23rd AAAI Conference on Artificial Intelligence (**AAAI**), 746-751. July 13-17, Chicago, Illinois, USA. 2008.
15. Dan Zhang, **Fei Wang**, Changshui Zhang, Tao Li. Multi-view Local Learning. Proceedings of The 23rd AAAI Conference on Artificial Intelligence (**AAAI**), 752-757. July 13-17, Chicago, Illinois, USA. 2008.
16. **Fei Wang**, Tao Li, Changshui Zhang. Semi-Supervised Clustering via Matrix Factorization. The 8th SIAM International Conference on Data Mining (**SDM**), 1-12. Hyatt Regency Hotel, Atlanta, Georgia. 2008.
17. Bin Zhao, **Fei Wang**, Changshui Zhang. Efficient Maximum Margin Clustering via the Cutting Plane Algorithm. The 8th SIAM International Conference on Data Mining (**SDM**), 751-762. Hyatt Regency Hotel, Atlanta, Georgia. 2008.
18. Gang Chen, Yangqiu Song, **Fei Wang**, Changshui Zhang. Semi-supervised Multi-label Learning by Solving a Sylvester Equation. The 8th SIAM Conference on Data Mining (**SDM**), 410-419. Hyatt Regency Hotel, Atlanta, Georgia. 2008.
19. Dan Zhang, Jingdong Wang, **Fei Wang**, Changshui Zhang. Semi-Supervised Classification with Universum. The 8th SIAM Conference on Data Mining (**SDM**), 323-333. Hyatt Regency Hotel, Atlanta, Georgia. 2008.
20. Bin Zhao, **Fei Wang**, Changshui Zhang, Yangqiu Song. Active Model Selection for Graph Based Semi-Supervised Learning. The 33rd International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), Las Vegas, Nevada, 1881-1884. 2008.
21. **Fei Wang**, Xin Wang, Tao Li. Efficient Label Propagation for Interactive Image Segmentation. The 6th International Conference on Machine Learning and Applications (**ICMLA**), Cincinnati, Ohio. 136-141. December 13-15, 2007.
22. **Fei Wang**, Tao Li. Gene Selection via Matrix Factorization. Proceedings of the 7th IEEE International Symposium on Bioinformatics & Bioengineering (**BIBE**), 1046-1050. Harvard Medical School Conference Center, Cambridge-Boston, Massachusetts, USA. 2007.
23. Liang Xiong, **Fei Wang**, Changshui Zhang. Multigrid Belief Propagation. Proceedings of the 7th IEEE International Conference on Data Mining (**ICDM**), 371-380, Omaha, USA. 2007.
24. Gang Chen, **Fei Wang**, Changshui Zhang. Collaborative Filtering Using Orthogonal Nonnegative Matrix Tri-Factorizations. Workshop on High Performance Data Mining, in conjunction with the 7th IEEE International Conference on Data Mining (**ICDM**), 303-308, Omaha, USA. 2007.
25. Shouchun Chen, **Fei Wang**, Changshui Zhang. Simultaneous Heterogeneous Data Clustering Based on High Order Relationships. Workshop on Mining Graphs and Complex Structures (**MGCS07**), in conjunction with the 7th IEEE International Conference on Data Mining (**ICDM**), 387-392. Omaha, USA. 2007.
26. Liang Xiong, **Fei Wang**, Changshui Zhang. Semi-Definite Manifold Alignment. Proceedings of the 18th European Conference on Machine Learning (**ECML**), 773-781. Warsaw, Poland. 2007.

27. **Fei Wang**, Changshui Zhang, Tao Li. Regularized Clustering for Documents. Proceedings of the 30th Annual International ACM SIGIR Conference on Research & Development in Information Retrieval (**SIGIR**), 95-102. Amsterdam. 2007.
28. **Fei Wang**, Changshui Zhang, Tao Li. Clustering with Local and Global Regularization. Proceedings of the 22nd National Conference on Artificial Intelligence (**AAAI**), 657-662. Vancouver, Canada. 2007.
29. **Fei Wang**, Changshui Zhang. Feature Extraction by Maximizing the Average Neighborhood Margin. Proceedings of the 25th IEEE Computer Society Conference on Computer Vision and Pattern Recognition (**CVPR**), 1-8. Minneapolis, Minnesota, 2007.
30. **Fei Wang**, Changshui Zhang. Fast Multilevel Transduction on Graphs. The 7th SIAM Conference on Data Mining (**SDM**). Radisson University Hotel, Minneapolis, Minnesota. 2007.
31. **Fei Wang**, Shijun Wang, Changshui Zhang, Ole Winther. Semi-Supervised Mean Fields. The 11th International Conference on Artificial Intelligence and Statistics (**AISTATS**). JMLR Workshop and Conference Proceedings Volume 2: AISTATS 2007, pages: 596-603. San Juan, Puerto Rico. 2007.
32. Bin Zhao, **Fei Wang**, Changshui Zhang. Smoothness Maximization via Gradient Descents. Proceedings of the 32nd International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), vol.2, 609-612. Honolulu, Hawaii. 2007.
33. **Fei Wang**, Sheng Ma, Liuzhong Yang, Tao Li. Recommendation on Item Graphs. Proceedings of the 6th IEEE International Conference on Data Mining (**ICDM**), 1119-1123. Hongkong, China. 2006.
34. **Fei Wang**, Jingdong Wang, Changshui Zhang and Helen C. Shen. Semi-Supervised Classification Using Linear Neighborhood Propagation. Proceedings of the 24th IEEE Computer Society Conference on Computer Vision and Pattern Recognition (**CVPR**), vol. 1, 160-167. New York University, New York, New York, USA, 2006.
35. Yangqiu Song, Changshui Zhang, Jianguo Lee, **Fei Wang**. A Discriminative Method For Semi-Automated Tumorous Tissues Segmentation of MR Brain Images. Proceedings of the 2006 IEEE Computer Society Workshop on Mathematical Methods in Biomedical Image Analysis (**MMBIA**) at the 2006 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, pp.79, New York University, New York, New York, USA, 2006.
36. **Fei Wang**, Changshui Zhang. Label Propagation Through Linear Neighborhoods. Proceedings of the 23rd International Conference on Machine Learning (**ICML**), 985-992. Carnegie Mellon University, Pittsburgh, Pennsylvania, USA, 2006.
37. **Fei Wang**, Changshui Zhang and Naijiang Lu. Boosting GMM and Its Two Applications. In: Nikunj C. Oza, Robi Polikar, Josef Kittler and Fabio Roli (Eds.), Lecture Notes in Computer Science, Proceedings, Springer-Verlag GmbH, ISBN 3-540-26306-3, vol. 3541/2005: 12-21. 6th International Workshop Multiple Classifier Systems (**MCS**), Seaside, California, USA, 2005.
38. **Fei Wang**, Jingdong Wang and Changshui Zhang. Spectral Feature Analysis. Neural Networks, 2005. Proceedings of the 2005 IEEE International Joint Conference on (**IJCNN**), Volume 3, 1971 - 1976. Montreal, Canada, 2005.
39. **Fei Wang**, Changshui Zhang. Spectral Clustering for Time Series. In: Lecture Notes in Computer Science, Proceedings, Part I, Springer-Verlag GmbH, ISBN 3-540-28757-4, vol. 3686/2005: 345-354. Third International Conference on Advances in Pattern Recognition and Data Mining (**ICAPR**), Bath, UK, 2005.

PAPERS IN  
SUBMISSION

1. **Fei Wang**, Changshui Zhang. marginFace: A Novel Face Recognition Method Based on Maximizing the Average Neighborhood Margin. Submitted to Pattern Recognition (**PR**) (Major revision).
2. **Fei Wang**, Bin Zhao, Changshui Zhang. Embedding by Maximizing the Margins. Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) (Major revision).
3. **Fei Wang**, Changshui Zhang, Dit-Yan Yeung. A Multilevel Scheme for Learning from Labeled and Unlabeled Data. Submitted to IEEE Transactions on Neural Networks (**TNN**). (Major Revision)
4. **Fei Wang**, Liang Xiong, Changshui Zhang. Fast Multilevel Inference on Markov Random Fields. Submitted to IEEE Transactions on Knowledge and Data Engineering (**TKDE**).
5. **Fei Wang**, Tao Li. Gene Selection via Matrix Factorization. Submitted to IEEE Transactions on Knowledge and Data Engineering (**TKDE**).
6. **Fei Wang**, Bin Zhao, Changshui Zhang. Linear Time Maximum Margin Clustering. Submitted to IEEE Transactions on Neural Networks (**TNN**) (Major Revision).

PAPERS IN  
PREPARATION

- **Fei Wang**, Liang Xiong, Changshui Zhang. Semi-definite Manifold Alignment.

TUTORIALS

Knowledge & Information Management Using Graphs and Matrices. ACM 17th Conference on Information and Knowledge Management (**CIKM**), 2008.

CONFERENCE  
PRESENTATIONS

Weighted Consensus Clustering. The 8th SIAM Conference on Data Mining (**SDM**). Hyatt Regency Hotel, Atlanta, Georgia. Apr 24-26. 2008 (On behalf of the authors).

Semi-supervised Clustering via Matrix Factorization. The 8th SIAM Conference on Data Mining (**SDM**). Hyatt Regency Hotel, Atlanta, Georgia. Apr 24-26. 2008.

Optimal Dimensionality Discriminant Analysis and Its Application to Image Recognition. 1st Workshop on Component Analysis Methods for Classification, Clustering, Modeling and Estimation Problems in Computer Vision (CVPR2007 workshop, on behalf of the authors).

Fast Multilevel Transduction on Graphs. The 7th SIAM Conference on Data Mining (**SDM**). Radisson University Hotel, Minneapolis, Minnesota. Apr 26-28. 2007.

Label Propagation Through Linear Neighborhoods. Proceedings of the 23rd International Conference on Machine Learning (**ICML**), Carnegie Mellon University, Pittsburgh, Pennsylvania, USA, June 25-29, 2006.

POSTER  
PRESENTATIONS

Semi-supervised Metric Learning by Maximizing Constraint Margin. ACM 17th Conference on Information and Knowledge Management (**CIKM**), Napa Valley, California, October 26-29.

Semi-supervised Ranking Aggregation. ACM 17th Conference on Information and Knowledge Management (**CIKM**), Napa Valley, California, October 26-29.

Feature Extraction by Maximizing the Average Neighborhood Margin. The 2007 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (**CVPR**), Minneapolis, Minnesota, June 18-23, 2007.

Semi-Supervised Classification Using Linear Neighborhood Propagation. The 2006 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (**CVPR**), New York University, New York, New York, USA, June 17-22, 2006.

A Discriminative Method For Semi- Automated Tumorous Tissues Segmentation of MR Brain Images. The 2006 IEEE Computer Society Workshop on Mathematical Methods in Biomedical Image Analysis (**MMBIA**) at the 2006 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), New York University, New York, New York, USA, June 17-22, 2006.

#### INVITED TALKS

An Introduction to Spectral Clustering. Bioinformatics group, Department of Automation. Tsinghua University. Host: Xiaowo Wang. Beijing, China. October, 2007.

Graph Based Semi-supervised Learning. Beijing Jiaotong University. Host: Jian Yu. Beijing, China. April 2008.

Graph Based Semi-supervised Learning. Miami University. Host: Mitsunori Ogihara. Miami, Florida, USA. October 2008.

Graph Based Semi-supervised Learning. Florida International University. Host: Tao Li. Miami, Florida, USA. October 2008.

#### PROFESSIONAL ACTIVITIES

##### **Program Committee**

- Technical Program Committee, IEEE International Joint Conference on Neural Networks, 2009.
- International Program Committee, The 6th International Conference on Informatics in Control, Automation and Robotics, 2009.
- International Program Committee, The 7th International Conference on Machine Learning and Applications, 2008.
- Technical Program Committee, IEEE World Congress on Computational Intelligence, 2008.
- Program Committee, KDD Workshop on Data Mining using Matrices and Tensors, 2008.
- International Program Committee, The 6th International Conference on Machine Learning and Applications, 2007.
- Technical Program Committee, IEEE International Joint Conference on Neural Networks, 2007.
- Technical Program Committee, IEEE World Congress on Computational Intelligence, 2006.

##### **Conference Chair/Co-Chair**

- Local Arrangement Co-Chair. The 8th International Conference on Machine Learning and Applications, 2009.

##### **Guest Editor**

- Journal of Data Mining and Knowledge Discovery Special Issue on Data Mining with Matrices, Graphs and Tensors

##### **Reviewer**

- IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008,2009.
- IEEE Transactions on Knowledge and Data Engineering, 2008, 2009.
- IEEE Transactions on Signal Processing, 2008.
- IEEE Transactions on Neural Networks, from 2007.
- ACM Transactions on Sensor Networks, 2008.
- Artificial Intelligence, 2009.
- Statistical Analysis and Data Mining, 2009.
- Information Processing & Management, 2007, 2008.
- Neurocomputing, 2007, 2008, 2009.
- Pattern Recognition, 2008, 2009.
- ACM KDD International Conference on Knowledge Discovery & Data Mining, 2008.
- SIAM Data Mining Conference, 2008.

### **Student Memberships**

- IEEE, 2007.
- AAAI, from 2007.

### **FUNDINGS**

- Helped in a successful proposal for China National Science Foundation #60475001, RMB 220,000, titled “Research on Semi-Supervised Learning”.
- Helped in a successful proposal for China National Science Foundation #60465009, RMB 250,000, titled “Research on Graph Based Learning”.
- Helped in a successful proposal of China National Science Foundation Key Project, RMB 2,300,000, titled “Researches on Understanding the Data”, 2008.
- Helped in a proposal of NSF CCF titled “Convex/Nonconvex Optimization for Emerging Data Mining Problems”

### **TEACHING EXPERIENCE**

#### **Teaching Assistant**, Tsinghua University, Beijing, China

- Special Topics on Intelligent Technology. Spring 2005
- Pattern Recognition. Autumn 2004

#### **Guest Lecturer**, Florida International University, Miami, Florida

- Principles of Data Mining. Fall 2008.

### **COMPUTER SKILLS**

- Languages: C++, Java, Matlab
- Operating Systems: MS Windows, Ubuntu Linux.