

Wei Liu

- CONTACT INFORMATION Room 3608, Warnock Engineering Building
72 S Central Campus Drive
Salt Lake City, UT 84112
USA
Office Phone: 801-581-5982
Cell Phone: 801-448-2403
Email: weiliu at sci.utah.edu
Web: <http://www.sci.utah.edu/~weiliu>
- CITIZENSHIP P.R. China
- RESEARCH INTERESTS Statistical Learning and application on medical image analysis, especially functional MRI.
- EDUCATION University of Utah, Salt Lake City, Utah
PhD student, Scientific Computing and Imaging Institute, August 2008 - present
 - Work With Dr. Tom Fletcher on statistical analysis of functional MRI image.
 - Advisor: Dr. Tom Fletcher.Jilin University, Changchun, Jilin, China
M.S., School of Communication Engineering, Sep 2001 to Jul 2004
 - Thesis Topic: Feature Extraction using Subspace Decomposing and Kernel Space Mapping
 - Advisor: Dr. Hexin Chen
 - Main Subject: Image Analysis, Machine Learning, Pattern Recognition and content-based Image retrieval.
 - Second Subject: Digital Signal Processing, Embedded Operating System, Real Time Operating SystemB.S., School of Information science and Engineering, Sep 1997 to Jul 2001
 - Subject: Measurement and control of Intelligent devices
 - Graduation Project: High Precision Electronic Clock by 16-bit Micro-Chip-Unit
- ACADEMIC EXPERIENCE Lucent Technologies, Nanjing, China
Instructor/Trainer 2006–2007
 - New employee Training at Lucent Technologies, Sep 2006 and Sep 2007 respectively Introduce Lucent software development and test environment, Cellular Out Of Lab (COOL); Six hour orientation class for 30 new employees, mostly new graduates; Prepare for the training material; Collect questions prior to the course; Make demos of Lucent development and test platform on Solaris 5.8.Jilin University, Changchun, Jilin China
Graduate Student 2001–2004
 - Project: Automatic Aerial Image Target Detection system, Chinese Air Force Project. Mar 2002 to Mar 2003
Define the questions with two other PhD students; Search existing methods and compare performances; Use shape, color and symmetry information as features for detection;
 - Project: Content-based Image and Video Retrieval, Chinese National Science Foundation No. 60172046. May 2003 to Aug 2003
Working with 3 group members, extract features of the images for classification; Compare different feature extraction and classification methods in theory and practice.*Undergraduate Project* Sep 2000 to Mar 2001
 - Television Set assembling, Sep 2000

Made Printed Circuit Board with existing schematics; Tune RF signals and trouble shooting works.

- Graduation Project: High Precision Electronic Clock by 16-bit Micro-Chip-Unit, Feb 2001 to Jun 2001
Devise a electronic clock with Micro-Chip-Unit and Dallas ICs. draw schematics and PCB with Protel 99; Write Assembly and C code to guarantee accuracy and stability.

PUBLICATIONS

- Wei Liu, Peihong Zhu, Jeffrey S. Anderson, Deborah Yurgelun-Todd, P. Thomas Fletcher, Spatial Regularization of Functional Connectivity Using High-Dimensional Markov Random Fields, *Medical Image Computing and Computer-Assisted Intervention-MICCAI 2010*, pages 363-370, 2010. (PDF)
- Wei Liu, Hexin Chen, Mianshu Chen, Kernel based Optimal Iterative Discriminant Analysis, *International Conference on Computational Intelligence, Robotics and Autonomous Systems*, Singapore, December, 2003. (PDF)
- CHEN Mianshu , Chen He-Xin, LIU Wei, A New Method for Resolving the Uncorrelated Set of Discriminant Vectors, *Chinese Journal of Computers*, July 2004. (PDF)

PROFESSION AND EMPLOYMENT

Lucent Technologies, Nanjing, Jiangsu China

Global Adaptive Feature Team of CDMA department Jul 2004 – Jun 2008

- As software feature tester, design testing strategy, review customer requirement and design test cases; Execute test in simulated and real labs; Report bugs and help developers' trouble-shooting work; Reivew customer document and give comments;
- As coordinator in the group, plan project schedule and human resources.
- As lab test expert, provide technical support in Lucent Wireless Network (Beijing and Chicago).
- More information about Lucent work can be found at *my Lucent homepage*.

Shanghai Institute of Computing Technologies, Chinese Academy of Science, Shanghai

Software intern Feb 2004 – May 2004

- Design intelligent home appliance supervisory application running on Cell Phone. Make printed circuit board.

SERVICE

School of Communication Engineering, Jilin University, Changchun, Jilin, China

Graduate student president 2001–2004

- Coordinate academic activities including defense meeting, new graduate orientation.
- work as assistant of Graduate administration office.

Lucent Technologies, Nanjing, Jiangsu China

Recruit new employee as interviewer Nov 2007

- Make interview questions; Have 20 interview sessions with both experienced candidates and new graduates.
- Group discussion on the quality of the candidates and make decisions on offering jobs. .

Hope Project on Lucent Global Day of Caring, May 2006 and May 2007

- Donate to children deprived; Talk to the students and encourage them on the study.

TECHNICAL SKILLS

MATLAB, R, C++ , UNIX shell scripting, \LaTeX .