
Jingyu liu
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EEG Lab, Psychology Dept.
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Interests:

Biomedical data process; Biomedical dynamic analysis; Digital image process

Education:

PhD. in Electrical and Computer Engineering Department
University of New Mexico
August 2000----May 2004, GPA 3.97 cum

M.S. in Electrical Engineering,
Northern JiaoTong University, Beijing, P.R.China
March 1997, GPA: 3.8

B.S. in Electrical Engineering,
Northern JiaoTong University, Beijing, P.R.China
July 1994, GPA: 4.0

Research experience:

PhD. Thesis: May 2004

"A human cardiovascular system identification and simulation applied to non-invasive cardiac output measurement " [Presentation available here.](#)

Brief description: Through signal pre-process, system identification and fuzzy inference approaches to model the cardiovascular dynamics, the homeostatic variability is indicated.

Research assistance project: (Sept.2003--present)

EEG data process, classification, and pattern recognition supported by EEG Lab in Psychology Department

Research assistance project: (May,2002—May,2003)

V-Lab simulator controller design. Virtual laboratory (called V-LAB) for multi-physics distributed modeling and simulation of autonomous agents is a project sponsored by NASA. More information available: <http://vlab.unm.edu/index.html>

M.S. Thesis: March 1997.

"Research and manufacture of automatic measuring instrument for irregular area".

Brief description: The original data from sensors and LED matrix were processed through fuzzy approach to calculate irregular area. This system consists of a center-control board based on Microprocessor, some input & output boards and printing & LCD displaying components.

Work Experience:

University of New Mexico, NM, USA (Half Time)
Teaching Assistant, Jan. 2001-----June 2002
Teaching EECE 206 Electrical Engineering Lab and EECE 327
Electronics Lab

Northern JiaoTong University, Beijing, P.R.China (Full Time)
Lecturer, Dept. of Material Engineering. Sept. 1997---- June 2000
In charge of two undergraduate courses: Electrical Products, Bar Code
Automatic Identifying technique.

Taifen Electrical Co., Ltd. Beijing, P.R.China (Full Time)
Design Engineer. March.1997---Sept. 1997:
Design, build, and install RTU used in GuiYang Huaxi transformer
substation in Guizhou province, P.R.China

Strength: Digital Signal Process, Soft Computing Algorithms, System Identification
Programming skills: C, C++, MATLAB, LABVIEW, JAVA

Publications

1. Jingyu liu, M. Jamshidi, S. Pourbabak, "A Novel Auto Regression and Fuzzy neural Combination Method to Identify Cardiovascular Dynamics", *world automaton congress 2004, Multimedia and Image Processing*
2. M. Jamshidi, S. heikh, J. Kitzinger, P. Sridhar, S. Beatty, S. Xia, Y. Wang, T. Song, U. Dole, J. liu "V_lab-a Distributed intelligent Discrete-event Environment for autonomous agents simulation" *Intelligent Automation and Soft Computing Vol. 9, No 3, pp. 181-214, 2003.*
3. Y. Zhang, D. Zhang, *Electronic Commerce book (software component)*
4. J. liu, Z. Wang. "Permanent Recording and Playing System of Speech Sounds" *Proceedings of The 4Th. Annual Symposiums on Automatic Control of Universities in Beijing, 1996*

Chapter:

1. M. Jamshidi, S. Sheikh-Bahaei, J. Kitzinger, P. Sridhar, S. Xia, Y. Wang, J. Liu, E. Tunstel, Jr, M. Akbarzadeh, A. El-Osery, M. Fathi, X. Hu, and B. P. Zeigler. *Applied System Simulation methodologies and application* Chapter 11 "A Distributed Intelligent Discrete-Event Environment for Autonomous Agents Simulation", P241~P274 Kluwer Academic Publishers, 2003.

Awards & Honors

- 1: 1996, Excellent Graduate Student of Northern JiaoTong University, Graduate scholarship
- 2: 1994, Excellent Undergraduate Student of Universities and colleges in Beijing

Activities & Associations

2002 Vice-president of Chinese Students Friendship Association (CSFA) in UNM