

Curriculum Vitae (C.V.)

Personal Data

Name: Shahram Jafari
Date of Birth: January-8-1975
Marital Status: Single
Children: N/A
Profession: University lecturer, Assistant Professor
Address:



i) Work: Dept. of CSE, Eng. Bldg. 2, School of Engineering,
Shiraz University
Shiraz, Iran
Tel: +98-917 314 2536
Fax: (Iran)(Shiraz) +98-711-6271747

ii) E-mail: *Jafaris@shirazu.ac.ir*,
shj53@yahoo.com

ii) Homepage: *<http://research.shirazu.ac.ir/faculty/Detail.asp?ID=671>*

Education

PhD: 2006, Intelligent robotics, Department of Electrical and Computer Systems Engineering, Monash University, Australia. Main Supervisor: Prof. Ray Jarvis. Title of the PhD thesis: "*A Multi-Paradigm Model for Robotic Eye-to-Hand Coordination*"

M.Sc: 1999, Computer Engineering (Artificial Intelligence and Robotics), Department of Computer Science and Engineering, Shiraz University, Iran.

M.Sc. Thesis: (written in English) "*Fuzzy Expert System Design and Implementation for Dental Diseases Diagnosis*", thesis advisor: Prof. S. D. Katebi.

M.Sc. Seminar: (written in English) "*Implementation of Fuzzy Systems via Wxclips*".

M.Sc. projects:

- Refinement of medical images.
- Processing of landscape images.
- DEXSYS (my M.Sc. thesis as collaboration between the school of dentistry and Dept. of computer engineering at Shiraz University.
- Monitoring Components of Milk in Shiraz Milk factory.

B.Sc: 1996, Computer Engineering (Hardware), Department of Computer Science and Engineering, Shiraz University, Iran.

B.Sc. project: " Implementation of Several Sound Modulation Techniques based on Computer Hardware and Programming".

Academic Achievements

1. First rank of B.Sc. with the average grade of 17.69 (out of 20), 1996.
2. First rank of M.Sc. with the average grade of 18.19 (out of 20), 1999.
3. First rank of Abroad Ph.D. Scholarship Exam, 1999 (Grade: 9886 out of 10000). Accepted in TOLIMO(E-A), IELTS, TOEFL exams.
4. Accepted in Abroad Ph.D. Scholarship Examination, 1996, assigned to Sharif University of Technology, Shahid Beheshti University and Ministry of Communications.
5. Outstanding student award in the first Olympiad of Computer in Iran, 1992, signed by Dr. Haddad Adell.
6. ACM International Programming Contest: Coach of two Persian-Gulf University teams, held at Sharif University of Technology, 2000.
7. Second rank of Academy Math. Science Examination, 1994.
8. First rank of Sharif Rahyan Daneshgah Exam, 1995.
9. First International Mine Detector Robots Competition: Coach of the Persian-Gulf University team, held at Amirkabir University of Technology, 2002, Tehran, Iran.
10. Active committee member award, second Electrical and Computer Engineering Seminar, Shiraz, 1999.
11. First rank in kidsize humanoid penalty league of the 2nd International RoboCup competitions, IranOpen, April 5 to April 7, 2007, Tehran, Iran (supervisor of Persia robot team).
12. Computer department faculty representative for student affairs since Oct. 2006, Shiraz University.
13. Computer department faculty representative for Industrial connections since Nov. 2006, Shiraz University.
14. Teacher of Persia robot team which was qualified for RoboCup 2007, 1-10 July, kidsize humanoid league, Atlanta, USA.

Journal Publications (in chronological order)

1. S. Jafari and R. A. Jarvis, "*Robotic eye-to-hand coordination: Implementing visual perception to object manipulation*" published in the *Int. Journal of Hybrid Intelligent Systems (IJHIS)*, special issue, ISSN: 1448-5869, IOS press, 2(4), pp. 269-293, Dec. 2005.
2. R. Tabatabaie, M. A. Dehaghi and S. Jafari, "*Effect of different soil temperatures on three annual medics*," published in the *Journal of Agronomy*, ISSN: 1812-5379, ANSInet Publications, 2007.
3. S. Jafari, M. N. Mahani, M. Arabnezhad and M. Sharifi, "*Adaptive Car Safety System*", published in the *Transactions on engineering, computing and technology*, ISSN: 1305-5313, ENFORMATIKA, VOL 19, pp. 46-50, January 2007.
4. M. A. Dehaghi, S. Jafari and R. Tabatabaie, "*Effect of Calcium on three annual medics*," accepted for publication in the *Journal of Agronomy*, ISSN: 1812-5379, ANSInet Publications, 2007.
5. M. Bastanfard, B. Jalaeian, and S. Jafari, "*Analysis of Sonogram Images of Thyroid Gland based on Wavelet Transform*", accepted for publication in the *Int. Journal of Applied Science, Engineering and Technology (IJASET)*, ISSN: 1307-4318, World Academy of Science, Engineering and Technology publications (WASET), May 2007.
6. M. Bastanfard, S. Jafari, and B. Jalaeian, "*Analysis of sonographic images of breast*", accepted for publication in the *Int. Journal of Applied Science, Engineering and Technology (IJASET)*, ISSN: 1307-4318, World Academy of Science, Engineering and Technology publications (WASET), May 2007.
7. S. Jafari, B. Jalaeian, and H. M. Jahromi, "*National Security System based on Computer Network*", submitted to the *Iranian Journal of Mouj Bartar*, Feb. 2007.

Book submitted to be published:

M. A. Dehaghi, S. Jafari and R. Tabatabaie, "*Comprehensive Dictionary of Agronomy and Plant Breeding*", submitted to the publishing centre of Shiraz University for review, January 2007.

Research grants approved:

1. Feb. 2007, "A comprehensive software for dental diseases diagnosis", school of dentistry, Shiraz University of Medical Sciences (SUMS).
2. Apr. 2007, "A kidsize humanoid robot for participation at IranOpen 2007, Tehran, Iran and RoboCup 2007 international competitions, Atlanta, USA", Shiraz University.
3. pending approval, "Agrobot: Agricultural robot", Tehran Shahed University, Tehran, Iran.

Conference Publications (in chronological order)

1. S. Jafari, "*Fuzzy Expert System Design for Dental Diseases Diagnosis*", Student Conference on Electrical & Computer Engineering, Sharif University of Technology, 1998.
2. S. Jafari, "*Fuzzy-Certainty Factor Expert System Design and Implementation for Dental Diseases Diagnosis*", Student Seminar on Electrical & Computer Engineering, Shiraz University, Apr. 1999.
3. A. Bordbar, S. Jafari, "*Design and Implementation of High-Security Operating System (HSM-OS)*", Student Conference on Electrical and Computer Engineering, Amir-Kabir University of Technology, 1999.
4. S. Jafari, "*New Applications of Computer in Science and Industry*", Applied Computer Seminar, Lar Azad University, 1999.
5. S. Jafari, "*Application of Computer Artificial Intelligence in Dentistry Science*", Persian-Gulf University, 2000.
6. S. Jafari, S. D. Katebi, "*Tuning of Fuzzy-Certainty Factor Expert Systems based on Neural Networks*", Paper Number: 351-064, IASTED Int. Conf. on Applied Informatics (AI2002), Innsbruck, Austria, 2002.
7. S. Jafari, F. Shabani and P. Nava, "*Neural Network Algorithms for Tuning of Fuzzy Certainty Factor Expert Systems*", Paper Number: ISSCI-006, Proceedings of the 2002 WAC Conference, Florida, USA, June 2002.
8. S. Jafari and R. A. Jarvis, "*A Genetic Off-line Tuner for Robotic Humanoid Visual Perception*," presented at IEEE Int. Congress on Evolutionary Computation (CEC), Canberra, Australia, 2003.
9. S. Jafari, R. A. Jarvis, and T. Sivahumaran, "*Hybrid Intelligent Models for Visual Servoing*," presented at IEEE Conference on Cybernetics and Intelligent Systems

(CIS), Singapore, 2004.

10. S. Jafari, R. A. Jarvis, and T. Sivahumaran, "*Relative Visual Servoing*," presented at IEEE Conference on Robotics, Automation and Mechatronics (RAM), Singapore, 2004.
11. S. Jafari and R. A. Jarvis, "*Robotic Hand-Eye Coordination: From Observation to Manipulation*," presented at Fourth Int. Conference on Hybrid Intelligent Systems (HIS), Kitakyushu, Japan, 2004.
12. S. Jafari and R. A. Jarvis, "*Relative Visual Servoing: A Comparison with Hybrid Intelligent Models*," presented at The second Int. Conference on Autonomous Robots and Agents (ICARA), Palmerston North, New Zealand, 2004.
13. S. Jafari and R. A. Jarvis, "*Eye-To-Hand Coordination: A Coarse-Calibrated Approach*," presented at The 2004 Australasian Conference on Robotics and Automation (ACRA), Canberra, Australia, 2004.
14. S. Jafari and R. A. Jarvis, "*Genetic Tuner for Image Classification with Robotic Applications*," presented at The second Int. Conference on Informatics in Control, Automation and Robotics (ICINCO, ANNIIP 2005), Barcelona, Spain, September 2005.
15. S. Jafari, M. A. Nikoei Mahani, and M. Sharifi, "*Comparison between Different Learning Rates in a Car Safety Controller*," accepted for the IEEE ICCA 2007, Guangzhou, China, May 2007.

Teaching Experiences

1. Azad Universities: Shiraz (Sepidan), Fassa and Lar, from 1996 till 2000.
2. Preparation Classes for Computer Olympiad Exam, from 1996 till 2000.
3. High Schools: Towhid Advanced (where I myself graduated from) and Farzaneggan, During B.Sc. and M.Sc. courses, from 1996 till 2000.
4. Educational classes of Jahaad Daneshgahi, 1997.
5. Shiraz University (Teaching Assistant), from 1996 till 2000.
6. Persian-Gulf University, Bushehr (official university instructor), from 1999 till 2002.
7. Monash University, Melbourne, Australia (tutor, problem solving classes including computer programming, electrical circuits, and physics), from 2003 till 2006.

8. Assistant Professor at Shiraz University, from Feb. 2006 till now.

Meanwhile, I have taught '*Expert Systems*' and '*Robotics*' for postgraduate students and many subjects at the undergraduate level of computer engineering.

Major research Interests / Career objectives (in order of preference):

- Artificial Intelligence, especially Expert Systems
- Robotics
- Hybrid Systems: Fuzzy logic, Certainty Factor, Neural Network combinations: Neuro-Fuzzy, Fuzzy neural Networks,...
- Image Processing

References:

1. Dr. Ray Jarvis, Professor, (my PhD main supervisor)
Director, Intelligent Robotics Research Centre (IRRC)
Dept. of Electrical and Computer Systems Engineering
Bldg. 72, Monash University, VIC 3800
Australia
Phone: +61 3 990 53462
Fax: +61 3 990 53454
Email: Ray.Jarvis@eng.monash.edu.au

2. Dr. R. Andrew Russell, Associate professor,
Dept. of Electrical and Computer Systems Engineering
Bldg. 72, Monash University, VIC 3800
Australia
Phone: +61 3 990 53462
Fax: +61 3 990 53454
Email: Andy.Russell@eng.monash.edu.au

3. Dr. Reza Boostani, Assistant Professor,
Dept. of Computer Science and Engineering
Shiraz University, Shiraz, Iran
Phone: +98-711-6271747
Fax: +98-711-6271747
Email: Boostani@shirazu.ac.ir

Language skills:

- Persian /Farsi (Iran's official language): native
- English: Excellent
- Arabic: weak

Computer Programming Language skills:

- ANSI C, C++, BASIC, Assembly language of a few Microprocessors.
- Software tools: EndNote, Microsoft office (word, powerpoint, excel).

Hobbies:

- Sports: Swimming, Bodybuilding, Rock/Mountain climbing
- Music: Playing Iranian hammer dulcimer (Xylophone), tar (Sittar)
- Movies
- Fishing
- ...