

Saeed Samadi



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Food Machinery dept.
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Education [1983-1987] Iran Univ. of Science& Technology Tehran , Iran
BSc. , Electronics Engineering

[1988-1990] Tehran University Tehran, Iran
MSc. , Electronics Engineering

[1994-1996] Iran Univ. of Science & Technology Tehran, Iran
MPh , Electronics Engineering

Professional experience

[2010-now] Research Institute of Food Science & technology(RIFST) Mashhad , Iran
Academic Staff, Food Machinery dept.

- Conduct research into the feasibility, design and application of electronic systems in the food industry. Supervise, advice and inspect the implementation, testing and operation of electronic systems especially in the field of Intelligent Sensors and RFID. Head of department for two years. Head of RIFST research affairs office since 2015.

[2002-2010] Khorasan Science & Technology Park(KSTP) - Research Institute of Technology development) Mashhad , Iran
Academic Staff, Electrical & Electronic Engineering dept.

Plan, organize, direct control and evaluate the activities in electronics engineering department as dept. manager and in KSTP Technology Park as deputy for technology and innovation. Directly design, develop and inspect technical project and department work especially in the field of ITS (Intelligent Transportation Systems) and RFID Technology. Consult and prepare reports, RFPs and tender docs.

[1990-2002] Khorasan Research Org. for Scienc &Technology (IROST), Mashhad,Iran

Academic Staff

- Conduct research into the feasibility, design and performance of electronic systems. Supervise, advice and inspect the implementation, testing and operation of electronic systems. Prepare reports and tender docs.

**Publications
and patents**

A- Papers:

1. **Biosensors and microbial food metabolites with Halal concept.** International congress of Halal products, Dec.13-14,2018, Mashhad, Iran.
2. **A Review of Internet-based Technologies and Applications in the Food Industry,** International Journal Of Advances in Internet Technology, v 8 n 3&4 , 2015.
3. **Use of electronic nose in determining freshness and shelf-life of agro-food products,** National conference on new technologies for harvest and post-harvest of agricultural products, Mashhad, Iran, 2015.
4. **Nano-biosensors as a new tool for food safety and security,** Iranian Journal of Biosafety, Vol. 5, No. 2, 2012.
5. **Detection of agricultural waste pollutants using biosensors,** Iranian Journal of human and environment, No.27, winter 2013.
6. **Open Innovation Business Model in the Food Industry: Exploring the Link with Academia and SMEs,** Journal of Economics, Business and Management (JOEBM) , Vol.2,No.3, Aug 2014.
7. **Wireless Sensor Technologies in the Food Industry,** INNOV 2015: The Fourth International Conference on Communications, Computation, Networks and Technologies, Barcelona, Spain, Nov. 18, 2015.
8. **Applications and opportunities for Internet-based technologies in food industry,** AFIN 2014-Advances in Future Internet, Lisbon, Portugal, November 16 - 20, 2014.
9. **Interface Design Techniques for Electronic Nose Sensors,** The Sixth International Conference on Advances in Human oriented and Personalized Mechanisms, Technologies, and Services Centric2013, Venice, Italy, October27- November 1, 2013.
10. **Low-Frequency Current Ripple Reduction in Front-end Boost Converter with Single Phase Inverter Load,** IET Journal of Power Electronics, Vol.5, No. 9, 2012

11. **Performance Evaluation of Intelligent Adaptive Traffic Control Systems: A Case Study**, Journal of Transportation Technologies (JTTS), No.3, 2012.
12. **A Multi-Agent Vision-Based System for Vehicle Detection**, World Applied Sciences Journal (WASJ), No.12, pp1722-1732, 2011.
13. **A Conceptual Model for Entrepreneurship in Developing Countries Based on Operating Industries**, International Conference on Science & technology Parks. ASPA-IASP 2011, November 22-24 ,2011.
14. **Evaluation of deploying ITS systems in Mashhad Taxi fleets** , Iranian Shahrpajouh Journal, Winter, 2011.
15. **Applications and Opportunities for Radio Frequency Identification (RFID) Technology in Intelligent Transportation Systems: A Case Study**, International Journal of Information & Electronic Engineering (IJIEE), Vol.3, No.3, pp341-345, May2013.
16. **Fostering Creativity and Innovation for Organizations in a Turbulent Environment for Long-term Survival**, 2011 IEEE International Conference on Asia Pacific Business Innovation and Technology Management, APBITM 2011, July 10-12 , 2011
17. **A Survey of the Potential Impact of RFID Technology on the Mobility of People and Freight, and its Impact on Congestion**, 19th International Conf. on Software, Telecom. & Computer networks, SoftCom2011, September 15-17, 2011
18. **“Role of Technology Clusters in flow of technology trading in Iran”**, Journal of Tech. Growth (roshd-e-fanavari), 2008, Iran.
19. **“Vehicle Recognition Based in Fourier, Wavelet & Curvelet Transforms- a Comparative study”**, International Journal of Computer Science & Network Security, 2007.
20. **“Vehicle Detection Using a Multi-agent Vision-based System”**, Springer -CISSE, Dec.2007, USA.
21. **“Vehicle Recognition using Curvelet Transform & SVM”**, IEEE-ITNG, Apr. 2007, USA.
22. **“Vehicle Recognition Based- a Fourier Wavelet & Curvelet Transforms”**, IEEE-ITNG, Apr. 2007, USA.
23. **“Face Recognition using local weighted analysis”**, IKT2007, Iran
24. **“ Determining master plan and architecture design criteria for Iranian Science & Technology Parks, with a view to world experiences”** , Journal of Tech. Growth (roshd-e-fanavari) ,2007 ,Iran.
25. **“Techno mart: the definition and its role in technological and industrial environments “**, Journal of Tech. Growth (roshd-e-fanavari), 2007, Iran.
26. **“Impact of SCATS adaptive signal control system on**

- improvement of major traffic parameters in Mashhad city**”, Mashhad-Traffic – future Conf. 2007, Iran.
27. **“The Techno mart: the missing link in knowledge-based economy”**, IASP- Asian2006 Conference, Apr.2006, Iran.
 28. **“Networking of R&D technological resources with a view to industries”**, Int. R&D centers Conf., 2006, Iran.
 29. **“Automated Vehicle recognition using RFID technology and its application in Mashhad taxi fleet management”**, Int. RFID Conf., 2005, Iran.
 30. **“Wildlife/Livestock monitoring and tracking using RFID technology”**, Int. RFID Conf., 2005, Iran.
 31. **“A review of Standards and frequencies used in RFID technology”**, Int. RFID Conf., 2005, Iran.
 32. **“Role and importance of Intelligent Transportation Systems to realize an electronic city”**, IT & e-city Conf., 2004, Iran.
 33. **“Modeling nonlinear behavior of piezoresistive pressure sensors using neural network “**, ICEE 2000, Iran.
 34. **“Design and implementation of an automated reactive power controller using fixed capacitive banks “**, Computer Res. & App. Conf., 1992, Iran.

C- Research Projects :

- 1- **"Adulteration detection techniques in Saffron using e-nose and e-tongue"**, team member, running research project, Research Institute of Food Science and Technology (RIFST), 2016-now.
- 2- **"Development of a road map for the food industry sector in the Khorasan Razavi science and technology corridor"**, team member, RIFST-Ferdowsi university joint project, 2018.
- 3- **"Design and fabrication of chocolate micronized mill"**, team member, running research project, RIFST, 2015-now.
- 4- **"Assessment of level and capability of technology in selected food industries of Khorasan Razavi province"**, project manager, approved project and funded by Khorasan industrial estates organization, 2016.
- 5- **“Design and implementation of Electronic Nose and Tongue Sensors for Evaluating Food quality and Safety-Phase I-feasibility Study”**, project manager, July 2013.
- 6- **"Design and implementation of an intelligent city-wide network for monitoring icy road conditions"**, funded by Mashhad municipality, project manager, Research project final report, 2011.

- 7- **“Mashhad Intelligent Transportation System (ITS) Master Plan”**, Funded by Mashhad Municipality, project manager, 2012-2015.
- 8- **“6- Years strategic master plan for using intelligent transportation systems (ITS) in Mashhad taxicab fleet”**, project manager, Funded by Mashhad taxi management and supervision organization, Mashhad Municipality, 2008.
- 9- **“Effectiveness of SCATS adaptive control system on improving Mashhad major traffic parameters”**, Funded by Mashhad traffic and transportation organization, Mashhad municipality. 2007.
- 10- **“6- years strategic master plan for using intelligent transportation systems (ITS) in Mashhad traffic control center”** , Funded by Mashhad Municipality, 2004.
- 11- **“Designing an Automatic vehicle location and monitoring system for Mashhad municipality motorpool”**, 2006.
- 12- **“Design and implementation of an automatic detection and monitoring system for Mashhad airport taxicab fleet “**, Project manager, Funded by Mashhad taxi management and supervision organization, Mashhad Municipality, 2005.
- 13- **“Mechanization methods for Mashhad Bus fleet monitoring and management “**, project manager, funded by Mashhad Transit Bus organization, Mashhad Municipality, 2004.
- 14- **“Design and implementation of a digital torque meter with application in automotive industry”**, project manager, funded by Radfarman Co., Mashhad, 2000.
- 15- **“Digital reactive power controller system “**, KSTP, Mashhad, 1999.
- 16- **“Design and implementation of a neural- based signal conditioning system for piezoresistive pressure sensors”**. KSTP, 1996.
- 17- **“Electronic laboratory assistant for blind students “**, KSTP, 1994.
- 18- **“Electric Heating Systems regulations “**, published as National Standard, ISIRI, 2001.
- 19- **“Survey on Taxi industry systems and regulations in the world”**, study ordered by Mashhad taxi management and supervision organization, Mashhad Municipality, 2004.
- 20- **“Survey on methods and systems for limited traffic control zone with a view to world experiments”**, study ordered by Mashhad traffic and transportation organization, Mashhad municipality. 2009.
- 21- **“Science Centers: Structures and features”**, KSTP, 2008.

D- Books (Translated into Persian) :

- 1- **"Intelligent sensors in the food industry: technology and applications "**, RIFST, 2015, ISBN: 978-964-324-359-3.
- 2- **"Descriptive Electronics Dictionary "**, Daneshyar Publishing, 2002, 4th print. (Awarded).ISBN: 964-7015-39-9.
- 3- **"Solid state electronic devices"**, IUST Press, 1995, 8th print (Awarded).ISBN : 964-454-016-6
- 4- **"Principles of CMOS VLSI Design: a system perspective"**, University Publishing Center, 2001 (Awarded).ISBN: 964-01-1042-6.
- 5- **"Electrical & Electronics Dictionary "**, Daneshyar Publishing, 2009. ISBN: 964-7015-64-6
- 6- **"Science & Technology Parks and Incubators: Frequently Asked Questions"**, KSTP, 2005, 4th Edition.ISBN: 964-92029-0-7

A-Patents:

- 1- **A credit bank card with sound and display abilities.** Patent no. 95054, Iran.
- 2- **A new taxi- vehicle detection system using RFID Technology,** Patent no. 47705, Iran.
- 3- **A digital reactive power controller using static capacitive banks,** Patent no. 46330, Iran.
- 4- **An electronic lab. Assistant for blind students,** Patent no.46394, Iran.
- 5- **A digital torque meter apparatus,** Patent no. 46384, Iran.
- 6- **A new method to provide warm water for cleaning vehicle windshields,** Patent no.51217, Iran.

Additional professional activities

Supervisor and technical consultant of startup companies and SMEs, KSTP.

Intelligent Transportation Systems (ITS) Consultant, Mashhad Municipality.

Official expert in the field of computer hardware and networks. The Judiciary of Iran

Editor, Science &Technology Magazine, KSTP.

Information Technology consultant, Mashhad traffic control center.

Technical consultant, Mashhad taxi management and monitoring organization.

Technical consultant, Rad toos (R&D division of Radfarman automotive Company.)

Lecturer, Electronics engineering courses, Azad University

Professional memberships

International Association of Computer Science & Information Technology(IACIT)

The Institute of Electronics Information and Communication Engineers(IEICE)

Institute of Electrical & Electronics Engineers (IEEE),

High council of Intelligent Transportation Systems , Mashhad Municipality

Iranian Institute of Electrical & Electronics Engineers

Iranian Association of Science Parks

Technical committee of numerous scientific conferences and festivals

Languages

English :High Reading, Listening , writing and speaking

Entrepreneurship and Community activities

Quchan Univ. of Applied Science & Technology, Founder and board member. Since 2009.

Behin Fanavaran Sanat Company., Founder and Board Chair. Since 2015.

KSTP-RIFST Charity foundation, Board chair. Since 2010.

KSTP Innovation center, Founder.

Khorasan annual exhibition of inventions and innovations ,Founder and Executive manager.

Awards received

Distinguished researcher for technological services, Khorasan governor, 2007.

Distinguished academic staff , KSTP, 2002

Solid- State Electronic devices (In Persian) ,Iran Universities book of the year ,1997

Principles of CMOS VLSI design,(In persian),Bronze award, 3rd Ferdowsi scientific festival.

Descriptive Electronics Dictionary, Silver award, 2nd Ferdowsi Festival.

“6- Years strategic master plan for using intelligent transportation systems (ITS) in Mashhad traffic control center”, Research of the year award, Mashhad Municipality, 2005.

“Impact of using SCATS adaptive signal control system on improvement of major traffic parameters in Mashhad city”, Mashhad-Traffic – future Conf. 2007. Best paper award.

Marital status

Married with two children

Hobbies

Travel, football, Taekwondo, hiking, music, movies, news.