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**Educations:**

- Ph.D. in Electrical Engineering 1995 – 1998. Department of Electrical and Computer Engineering, University of Wollongong (UOW), Australia.  
Thesis title: Intelligent Impact Control in Anti-Personnel Mine Detection.  
Supervisor: Fazel Naghdy, Associate Professor and Associate Dean for Academic Affairs in the Faculty of Informatics.  
Co-Supervisor: Chris Cook, Professor and Dean of Engineering.
- M.Sc. (Honors) in Electrical Engineering 1992 – 1994.  
Department of Electrical and Computer Engineering, University of Wollongong (UOW), Australia. Thesis title: Concurrent Object-Oriented Approach to Control of PAM.
- B. Sc. in Electrical Engineering 1979 – 1985.  
Department of Electrical Engineering, K. N. Toosi University of Technology (KNTU), Tehran, Iran

**Awards:**

Ph.D. Scholarship (OPRA) granted by Australian government, 1995;

M. Eng. (honors) Scholarship (OPRA) granted by Australian government, 1992;

Kharazmi award for design and implementation of the team-work “PAYK” project to communicate with a launched rocket and record data from test points to test navigation instruments, electronics components, and boards, 1989.

Supervising MRL RoboCup teams in RoboCup 2012 which has been awarded the 1st position (World Champion) of Real Rescue Robot league, Mexico;

Supervising MRL RoboCup teams in RoboCup 2011 which has been awarded the 2nd position of Real Rescue Robot league, Turkey;

Supervising MRL RoboCup teams in RoboCup 2010 which has been awarded the 2nd position of Best Mobility Real Rescue Robot league, Singapore;

Supervising MRL RoboCup teams in RoboCup 2009 which has been awarded the 3rd position of Real Rescue Robot league, Austria;

Supervising MRL RoboCup teams in RoboCup 2006 which has been awarded the 3rd position of Real Rescue Robot league, Germany;

Supervising MRL RoboCup teams in RoboCup 2005 which has been awarded the 7th position of Real Rescue Robot league, Japan;

Supervising MRL RoboCup teams in RoboCup German Open 2005 which has been awarded the 1st position of Real Rescue Robot league, Germany;

Supervising MRL RoboCup teams in New Zealand RoboCup 2004 (open) which has been awarded the 2nd position of Rescue Simulation league, New Zealand;

Supervising MRL RoboCup teams in RoboCup 2004 which has been awarded the 1st position of Coach Soccer Simulation league, Portugal;

Supervising MRL RoboCup teams in RoboCup 2003 which has been awarded the 3rd position of Presentation Soccer Simulation league, Italy.

### **Consulting Experience:**

Supervising more than 35 Undergraduate student Theses;

Supervising more than 40 Postgraduate (M.Sc. & Ph.D.) student Theses;

Developing a Full Automatic Calibration Laboratory for Flow Measurement;

Conducting a Research Program on an AP Mine Detector Robot, including several research projects;

Conducting a Research Program on a XY-table Precision Motion Control;

Developing an Interactive Multimedia Tutorial for Control Theory;

Developing a Hot Wheel Detection (HWD) and Hot Box Detection (HBD) Systems for railways safety (Supported by an industrial grant);

Developing a Virtual Instrument based Control Laboratory (VICLtm);

Conducting a Research Project to Locate, Identify and Rescue Disaster Victims Using Bluetooth Technology;

Establishing a Green-House Laboratory to Model and Develop Intelligence Green-House Control Algorithms (Supported by an industrial grant);

Conducting a research project on Multi-rotor Robots (UAV).

**Paper:**

- [J:xx] (submitted) M. Khodabandeh, and A. M. Shahri, “Uncertainty Measurement for Ultrasonic Data Fusion”, Applied Research & Technology (JART).
- H. Dolatshahi Pirooz, A. Eftekharian, A. M. Shahri, M. Eftekhari Yazdi “Design and implementation of a novel two stage mechanical–magnetic variable stiffness actuator (M<sup>2</sup>-VSA)” Journal of Advanced Robotics, Dec2014, Vol. 28 Issue 24, p1677-1689. (IF: 0.56)
- M. Khodabandeh, and A. M. Shahri, "Uncertainty evaluation for an ultrasonic data fusion based target differentiation problem using Generalized Aggregated Uncertainty measure 2" Journal of Measurement, Volume 59, January 2015, Pages 139-144. (IF:1.339)
  - M. Khodabandeh, and A. M. Shahri, “Uncertainty Evaluation for a Dezert-Smarandache Theory based Localization Problem”, International Journal of General Systems, Volume 43, Issue 6, August 2014. (IJGS). (IF:0.733)
  - M. Mirkhani, and A. M. Shahri, “A Novel Efficient Algorithm for Mobile Robot Localization”, Journal of Robotics and Autonomous Systems, Volume 61 Issue 9, September, 2013, Pages 920-931. (IF: 1.056)
  - (accepted) M. Mohammadi, and A. M. Shahri, “Dynamic Modelling of a Quadrotor UAV”, Mechatronics Magazine, 2013. (IF: 1.255)
  - M. Mohammadi, A. M. Shahri, “Adaptive Nonlinear Stabilization Control of a Quadrotor UAV: Theory, Simulation and Experimentation”, Journal of Intelligent and Robotic Systems (JIRS), Volume 72, Issue 1, 2013, pp. 105-122. (IF: 0.829)
  - M. Mohammadi, A. M. Shahri, Z. Boroujeni, “Modelling and Adaptive Tracking Control of a Quadrotor UAV”, International Journal of Intelligent Mechatronics and Robotics (IJIMR), Vol. 2, no. 4, pp. 58-81, October-December 2012.

- K. Shojaei, and A. M. Shahri, “Design and Implementation of an Inverse Dynamics Controller for Uncertain Nonholonomic Robotic Systems”, Online published in the Journal of Intelligent and Robotic Systems, pp. 1-19, August 2012. (IF: 0.829)
- K. Shojaei, and A. M. Shahri, “Adaptive Robust Time-varying Control of Uncertain Non-holonomic Robotic Systems”, IET Control Theory and Applications, vol. 6, no. 1, pp. 90-102, 2012. (IF: 0.99)
- K. Shojaei, and A. M. Shahri, “Output Feedback Tracking Control of Uncertain Nonholonomic Wheeled Mobile Robots: A Dynamic Surface Control Approach”, IET Control Theory and Applications, vol. 6, no. 2, pp. 216-228, 2012. (IF: 0.99)
- M. Khodabandeh, and A. M. Shahri, “Two Generalizations of Aggregated Uncertainty Measure for Evaluation of Dezert-Smarandache Theory”, International Journal of Information Technology and Decision Making (IJITDM), vol. 11, no. 1, pp. 119-142, 2012. (H\_Index: 20)
- K. Shojaei, and A. M. Shahri, “Experimental Study of Iterated Kalman Filters for Simultaneous Localization and Mapping of Autonomous Mobile Robots”, Journal of Intelligent and Robotic Systems (JIRS), vol. 63, no. 3-4, pp. 575-594, 2011. (IF: 0.829)
- K. Shojaei, A. M. Shahri, A. Tarakameh, and B. Tabibian, “Adaptive Trajectory Tracking Control of a Differential Drive Wheeled Mobile Robot”, Robotica, vol. 29, no. 3, pp. 391-402, 2011. (IF: 1.032)
- K. Shojaei, A. M. Shahri, and A. Tarakameh, “Adaptive Feedback Linearizing Control of Nonholonomic Wheeled Mobile Robots in Presence of Parametric and Nonparametric Uncertainties”, Robotics and Computer-Integrated Manufacturing, vol. 27, no. 1, pp. 194-204, 2011. (IF: 1.173)
- H. Mirinejad, S. H. Sadati, S. Hasanzadeh, A. M. Shahri, and M. Ghasemian, “Design and Simulation of an Automated System for Greenhouse using LabVIEW”, American-Eurasian Journal of Agricultural and Environmental Sciences (JAES), vol. 3, no. 2, pp. 279-284, 2008.
- R. Keshmiri, and A. M. Shahri, “Intelligent ABS Fuzzy Controller for Diverse Road Surfaces”, International Journal of Mechanical Systems Science and Engineering, vol. 1, no. 2, pp. 62-68, 2007.

- A. M. Shahri, “Neuro-Fuzzy Impact Control (NFIS) for Anti-Personnel (AP) Mines Detection”, Asian Journal of Control, vol. 4, no. 2, pp. 127-137, 2002. (IF: 1.034)
- A. M. Shahri, “Neuro-Fuzzy Compliance Control of Peg-in-Hole Insertion”, International Journal of Engineering Science, vol. 13, no. 1, pp. 151-165, 2002.
- A. Talaie, A. M. Shahri, and F. Talaie, “Adaptive Spline Modeling of Observation Data (ASMOD): A Solution to the Problems in Conducting Polymer-based Sensors”, Synthetic Metals, vol. 79, no. 1, pp. 63-67, 1996. (IF: 1.829)

### **Books:**

- [B:01] R. Fathzadeh, V. Mokhtari, M. Mousakhani, and A. M. Shahri, “Coaching with Expert System implemented in Robocup Soccer Coach Simulation,” in A. Bredendfeld et al. (Eds.): RoboCup-2005: Robot Soccer World Cup IX, LNAI 4020, pp. 488-495, Springer Verlag, Berlin, 2006.

### **Conference Paper:**

- Parichehr Shahidi, Alireza Mohammad Shahri, Sina Rezazadeh “ LQG-I Control for Attitude Stabilization of V8 Octorotor Flying Robot ”, 6st joint conference of Robotics & AI and the 8th Robocup Iran Open International Symposium,, Tehran, Iran, April 2016 (Submitted).
- Raouf.Rasoulzadeh, Alireza Mohammad Shahri, “Implementation of A Low-Cost Multi- IMU Hardware by Using a Homogenous Multi-Sensor Fusion”, 4th International Conference on Control, Instrumentation, and Automation (ICCIA 2016), Qazvin, Iran, January 2016.
- Seyed Hossein Jenabi, Alireza Mohammad Shahri, Mohammad Reza Beyad, “Advanced Mechatronics Course based on Wheeled Mobile Robots and Real-Time Embedded Control Experimental Setups”, 4th International Conference on Control, Instrumentation, and Automation (ICCIA 2016), Qazvin, Iran, January 2016.
- Hamid Dolatshahi Pirooz, Alireza Mohammad Shahri, Mahjabin Seyed Sajadi, “An Intelligent Mechanism to Change the Stiffness of a Mechanical-Magnetic Variable Stiffness Actuator (M<sup>2</sup>-VSA)”, 4th International

Conference on Control, Instrumentation, and Automation (ICCIA 2016), Qazvin, Iran, January 2016.

- Sina Rezazadeh, Alireza Mohammad Shahri, Mohammad Farrokhi, "Dynamical Modeling and Experimental Validation of a Novel V8 Octorotor Flying Robot", 4th International Conference on Control, Instrumentation, and Automation (ICCIA 2016), Qazvin, Iran, January 2016.
- Abolfazl Khorshidi, Alireza Mohammad Shahri, "GA-inspired Particle Filter for Mitigating Severe Sample Impoverishment", 4th International Conference on Control, Instrumentation, and Automation (ICCIA 2016), Qazvin, Iran, January 2016.
- M. Benhari, A. M. Shahri, A. Mohammadi, "Simultaneous Localization and Mapping (SLAM), using Sigma Point Particle Filter Based on Stereo Vision," 2nd International Conference on Robotics and Mechatronics (ICRoM 2014), Tehran, Iran, 15-17 October 2014.
- N. Nasiri, H. Sadjadian, A. M. Shahri, "Voltage-based Control of a Flexible-Joint Electrically Driven Robot Using Backstepping Approach," Power Electronics, Drive Systems and Technologies Conference (PEDSTC), pp. 541–546, 2013 , 27-29 August 2013.
- M. Mehranpour, A. M. Shahri, O. Imamgholi, M. Farrokhi, "A New Fuzzy Adaptive Control for a Quadrotor Flying Robot," 13th Iranian Conference on Fuzzy Systems (IFSC), 27-29 August 2013.
- M. Jafari, A. M. Shahri, S. H. Elyas, "Optimal Tuning of Brain Emotional Learning Based Intelligent Controller Using Clonal Selection Algorithm," 3th International Conference on Computer and Knowledge Engineering (ICCCKE), pp. 30-34, 31 October-1 November 2013.
- D. Khorrani, A. M. Shahri, B. Karasfi, "Mapping and Targets Localization using a Mono Camera," 14. International Workshop on Research and Education in Mechatronics – (REM), pp. 145-148, ISBN 978 390275 907-8, Vienna, 6-7 June 2013.
- M. Jafari, A. M. Shahri, S. Bagheri Shuraki, "Attitude Control of a Quadrotor Using Brain Emotional Learning Based Intelligent Controller," 13th Iranian Conference on Fuzzy Systems (IFSC), 27-29 2013.
- M. Jafari, A. M. Shahri, S. Bagheri Shuraki, "Speed control of a Digital Servo System using Brain Emotional Learning Based Intelligent Controller," 3rd International Confetence on Power Electronics, Drive Systems and

Technologies Conference (PEDSTC), 2013 4th , vol., no., pp.311,314, 13-14 Feb. 2013

- V. Khorani, and A. M. Shahri, “The True Role of Accelerometers in Quadrotors’ Inertial Navigation System,” 1st International Conference on Robotics and Mechatronics (ICRoM), 13-15 February 2013, pp. 474-480.
- M. Mohammadi, and A. M. Shahri, “Decentrized Adaptive Stabilization Control for a Quadrotor UAV,” 1st International Conference on Robotics and Mechatronics (ICRoM), 13-15 February 2013, pp. 288-292.
- M. Mohammadi, and A. M. Shahri, “Modelling and Decentrized Adaptive Traking Control of a Quadrotor UAV,” 1st International Conference on Robotics and Mechatronics (ICRoM), 13-15 February 2013, pp. 293-300.
- M. Shahri, H. Khoshravan, and A. Naebi, “Designing Ping-Pong Player Robot Controller with ANFIS,” Proc. 3rd International Conference on Computational Intelligence, Modelling and Simulation (CIMSIm), Langkawi, Malaysia, September 2011, pp. 165-169.
- Mohamadian, A. M. Shahri, and H. Barghlame, “A New Iterated Form of the Extended Kalman Filter for Simultaneous Localization and Mapping (IEKF-SLAM) Method in Multi-mobile Robots based on Divide and Conquer Algorithm,” Proc. 2nd World Conference on Information Technology (WCIT), Antalya, Turkey, November 2011.
- S. Darabi, and A. M. Shahri, “Iteration Effect on Vision based Simultaneous Localization and Mapping using Kalman Filters Family,” Proc. International Conference on Robotics and Biomimetics (ROBIO), Phuket Island, Thailand, December 2011, pp. 1084-1090.
- S. Darabi, and A. M. Shahri, “Vision based Simultaneous Localization and Mapping using Sigma Point Kalman Filter,” Proc. IEEE International Symposium on Robotic and Sensors Environments (ROSE), Montreal, Canada, September 2011, pp. 13-18.
- Vosughi, and A. M. Shahri, “Adaptive Trajectory Tracking Control of Wheeled Mobile Robot with an Inverted Pendulum,” Proc. 2nd International Symposium on Computing in Science and Engineering (ISCSE), Kusadasi, Turkey, June 2011, pp. 266-267.
- Z. Boroujeni, M. Mohammadi, S. Boroujeni, and A. M. Shahri, “Adaptive Feedback Linearizing Tracking Control of a Quadrotor Helicopter,” Proc. 2nd International Symposium on Computing in Science and Engineering (ISCSE), Kusadasi, Turkey, June 2011, pp. 241-243.

- V. Khorani, A. M. Shahri, and M. R. Mirfakhar, “Effects of Quadrotor Motions on its Accelerometers: Theory and Simulation Results,” Proc. 18th International Conference on Mechatronics and Machine Vision in Practice (M2VIP), Brisbane, Australia, December 2011, pp. 181-218.
- K. Keyvani, and A. M. Shahri, “Pedestrian Navigation System using IMU and Vision Sensors,” Proc. 19th Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2011 (in Persian).
- Behruzifar, A. M. Shahri, S. Karimi, H. Esmaeili, M. Haji Mohammadi and S. Hosseyni, “A Large Covered and Simple To Implement Local Positioning System,” 1st joint conference of Robotics & AI and the 3rd Robocup Iran Open International Symposium, Tehran, Iran, March 2011.
- J. Chegini, A. M. Shahri, A. Mashat, and M. Mashat, “A Rough-Train Mobile Robot with Innovative Triangular Flippers for Rescue Missions,” 1st joint conference of Robotics & AI and the 3rd Robocup Iran Open International Symposium, Tehran, Iran, March 2011.
- V. Khorani, A. M. Shahri, A. Shirخورshidi, and S. M. R. Mirfakhar, “Localization and Control of the Quadrotor Using IMU and Mono Camera,” 1st joint conference of Robotics & AI and the 3rd Robocup Iran Open International Symposium, Tehran, Iran, March 2011.
- S. Dadelahi, M. Jahed Motlagh, and A. M. Shahri, “Obstacle Displacement Prediction for Robot Motion Planning and Velocity Changes,” Proc. 3rd International Conference on Computer and Automation Engineering (ICCAE), Chongqing, China, January 2011, pp. 194-198.
- F. J. Harandi, V. Khorani, and A. M. Shahri, “Modeling, Simulation and Implementation of a Quadrotor,” RoboCup IranOpen Symposium, Tehran, Iran, March 2010.
- M. H. Korayem, A. Naebi, S. Esmaeilzadeha, and A. M. Shahri, “Tele-operated Nano-manipulation in Liquid Environment with Atomic Force Microscopy,” Proc. 4th Asia International Symposium on Mechatronics (AISM), Singapore, December 2010, pp. 213-218.
- M. Benhari, and A. M. Shahri, “Vision based Simultaneous Localization and Mapping using Sigmoid Particle Filter (SPPF-SLAM),” Proc. 3rd International Conference on Advanced Computer Theory and Engineering Conference (ICACTE), Chengdu, China, August 2010, pp. 492-497.



- A. Tarakameh, K. Shojaei, B. Tabibian, and A. M. Shahri, “Experimental Study of Kinematic Control of Differential Drive Wheeled Mobile Robot,” Proc. 18th Annual International Iranian Mechanical Engineering Conference (ISME), Tehran, Iran, May 2010.
- K. Shojaei, A. M. Shahri, and B. Tabibian, “Adaptive-robust Feedback Linearizing Control of a Nonholonomic Wheeled Mobile Robot,” Proc. IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), Montreal, Canada, July 2010, pp. 497-502.
- M. Khodabandeh, and A. M. Shahri, “Data Fusion of Cameras' Images for Localization of an Object; DSMT-based Approach,” Proc. 1st International Symposium on Computing in Science and Engineering (ISCSE), Kusadasi, Turkey, June 2010, pp. 479-485.
- M. Khodabandeh, and A. M. Shahri, “Uncertainty Measurement based Supervision in a Hierarchical Decision Making Problem,” Proc. 1st International Symposium on Computing in Science and Engineering (ISCSE), Kusadasi, Turkey, June 2010, pp. 526-531.
- B. Bader, and A. M. Shahri, “Design and Implementation of Hot Box and Train Wheel Temperature Measurement System,” Proc. 1st International Conference on Control, Instrumentation and Automation (ICCIA), Tehran, Iran, June 2010 (in Persian).
- Tarakameh, K. Shojaei, and A. M. Shahri, “Adaptive Control of Wheeled Mobile Robot in Presence of Slip and Dynamic Uncertainty,” Proc. 1st International Conference on Control, Instrumentation and Automation (ICCIA), Tehran, Iran, June 2010 (in Persian).
- M. Khodabandeh, and A. M. Shahri, “Uncertainty Measure for Ultrasonic Sensor Data Fusion to Identify Objects,” Proc. 1st International Conference on Control, Instrumentation and Automation (ICCIA), Tehran, Iran, June 2010 (in Persian).
- M. Noorbad, A. M. Shahri, and K. Shojaee, “Tracking of a Nonholonomic Mobile Robot based on Disturbance Observer,” Proc. 18th International Conference on Electrical Engineering (ICEE), Isfahan, Iran, May 2010 (in Persian).
- A. Tarakameh, K. Shojaei, and A. M. Shahri, “Adaptive Control of Nonholonomic Wheeled Mobile Robot in Presence of Lateral Slip and Dynamic Uncertainties,” Proc. 18th Iranian Conference on Electrical Engineering (ICEE), Isfahan, Iran, May 2010, pp. 592-598.

- Tarakameh, Kh. Shojaei, B. Tabibian, A. M. Shahri, “Experimental Study of Kinematic Control of Differential Drive Wheeled Mobile Robot,” Proc. 18th Annual International Iranian Mechanical Engineering Conference (ISME), Tehran, Iran, May 2010.
- K. Shojaei, A. Tarakameh, and A. M. Shahri, “Trajectory Tracking Control of Nonholonomic Mechanical Systems in Presence of Model Uncertainties,” Proc. 18th Annual International Iranian Mechanical Engineering Conference (ISME), Tehran, Iran, May 2010.
- M. Khodabandeh, and A. M. Shahri, “Experimental Study of Uncertainty Measure with Sensor Fusion Techniques,” Proc. 2nd International Asia Conference on Informatics in Control, Automation and Robotics (CAR), Wuhan, China, March 2010, pp. 151-154.
- M. Noorbad, A. M. Shahri, K. Shojaei and B. Tabibian, "A passivity based stability analysis of disturbance observer based trajectory tracking control of nonholonomic wheeled mobile robot," 2010 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Montreal, ON, 2010, pp. 477-482.
- M. Mirkhani, A. M. Shahri, and A. R. Soleimani, “Mobile Robot Localization based on Harmony Search Algorithm,” Proc. 1st RoboCup Iran Open Symposium (RIOS), Qazvin, Iran, April 2009.
- Tarakameh, K. Shojaie, and A. M. Shahri, “Modeling of a Differential Drive Wheeled Mobile Robot by Newton–Euler Method,” Proc. 1st RoboCup Iran Open Symposium (RIOS), Qazvin, Iran, April 2009.
- R. Taherkhani, Z. Marzi, S. Karimi, and A. M. Shahri, “Local Positioning System using Simple Ultrasonic Sensors,” Proc. 10th International Workshop on Research and Education in Mechatronics (REM), Glasgow, UK, September 2009.
- K. Shojaei, A. Tarakameh, and A. M. Shahri, “Adaptive Trajectory Tracking of WMRs based on Feedback Linearization Technique,” Proc. IEEE International Conference on Mechatronics and Automation (ICMA), Changchun, China, August 2009, pp. 729-734.
- S. Hasanzadeh, H. Nikkhah, and A. M. Shahri, “Model Predictive Control of Greenhouse Climate Control,” Proc. 9th International Workshop on Research and Education in Mechatronics (REM), Bergamo, Italy, September 2008.

- F. Gharibnezhad, A. M. Shahri, and M. Fegghi, “Speed Control of an Ultrasonic Motor using Fuzzy Inverse Model,” Proc. 9th International Workshop on Research and Education in Mechatronics (REM), Bergamo, Italy, September 2008.
- M. Jдалиha, and A. M. Shahri, “A New Pedestrian Navigation System based on Low-Cost IMU,” Proc. 5th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI), Seoul, Korea, November 2008.
- S. Hasanzadeh Barani, and A. M. Shahri, “Greenhouse Climate Modeling using Fuzzy Clustering and Gradient Descent Algorithm,” Proc. 2nd Joint Congress on Intelligent and Fuzzy Systems (ISFS), Tehran, Iran, August 2008.
- F. Gharibnezhad, and A. M. Shahri, “Elliptec Piezoelectric Electric Modeling using GMDH and FUZZY-GMDH and Comparison,” Proc. 2nd Joint Congress on Intelligent and Fuzzy Systems (ISFS), Tehran, Iran, August 2008.
- A. Mohammadian, and A. M. Shahri, “The Effect of Number of Landmarks in Memory Management Methods on Simulation of Mobile Robot's Simultaneous Localization and Map Building,” Proc. 2nd Joint Congress on Intelligent and Fuzzy Systems (ISFS), Tehran, Iran, August 2008.
- K. Shojaie, and A. M. Shahri, “Iterated Unscented SLAM Algorithm for Navigation of an Autonomous Mobile Robot,” Proc. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Nice, France, September 2008, pp. 1582-1587.
- Valinejad, A. M. Shahri, and M. Arabiha, “Design and Implementation of a Fertilizer for Irrigating System of a Hydroponics Greenhouse,” Proc. 5th National Congress on Agricultural Machinery Engineering and Mechanization, Mashhad, Iran, August 2008.
- R. Sabzevari, A. M. Shahri, and A. R. Fasih, “Object Detection and Localization System based on Neural Networks for Robo-Pong,” Proc. 5th International Symposium on Mechatronics and its Applications (ISMA), Amman, Jordan, May 2008, pp. 1-6.
- F. Gharibnezhad, and A. M. Shahri, “Elliptec Piezo Electric Motor: Modeling and Control using Fuzzy Approaches,” Proc. 5th International Symposium on Mechatronics and its Applications (ISMA), Amman, Jordan, May 2008, pp. 1-9.

- S. Hasanzadeh Barani, and A. M. Shahri, “Model Predictive Control of Greenhouse Climate Control,” Proc. 16th Annual International Iranian Mechanical Engineering Conference (ISME), Tehran, Iran, May 2008.
- M. R. Zaheri, P. Moghadam, and A. M. Shahri, “Calibrating Compass for Mobile Robot and its Experimental Results on Arian Robot,” Proc. International Conference on Robotics, Vision, Information and Signal Processing (RoViSP), Penang, Malaysia, November 2007, pp. 883-885.
- M. Shahri, and A. Mirzabeigi, “Comparison and Implementation of Different Control Strategy for a Mobile Robot Guidance,” Proc. 15th Annual International Iranian Mechanical Engineering Conference (ISME), Tehran, Iran, May 2007.
- M. Khodabandeh, M. Analoui and A. M. Shahri, “Target Differentiation using Sonar Data for Robot Applications; Neural Network Approach,” Proc. International Conference on Control, Automation and Systems (ICCAS), Seoul, Korea, October 2007, pp. 1958-1961.
- K. Shojaie, K. Ahmadi, and A. M. Shahri, “Effects of Iteration in Kalman Filters Family for Improvement of Estimation Accuracy in Simultaneous Localization and Mapping,” Proc. IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), Zurich, Switzerland, September, 2007, pp. 1-6.
- K. Ahmadi, and A. M. Shahri, “Comparison of Different Sensory Data Fusion Strategy in Map Building by Mobile Robots Equipped with Ring of Sonar,” Proc. 8th Conference on Intelligent Systems and 7th Iranian Conference on Fuzzy Systems (ISFS), Mashhad, Iran, August 2007.
- A. Mohammadian, and A. M. Shahri, “A New Approach for Multi-robot SLAM,” Proc. 8th Conference on Intelligent Systems and 7th Iranian Conference on Fuzzy Systems (ISFS), Mashhad, Iran, August 2007.
- A. Saderzadeh, M. M. Sanaatiyan, and A. M. Shahri, “Inertial Measurement Unit Error Handling for Mobile Robot: Expert Algorithms Approach,” Proc. 8th International Workshop on Research and Education in Mechatronics (REM), Tallinn, Estonia, June 2007, pp. 75-82.
- A. M. Shahri, and M. Ramezani, “Design of Intelligent Controller for Mobile Robot Collision Avoidance in an Unknown Dynamic Environment,” Proc. 15th Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2007.

- A. M. Shahri, and K. Shojaei, “A Comparison on Kalman Filter Families to Improve SLAM Algorithm on a Mobile Robot,” Proc. 15th Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2007.
- A. M. Shahri, and M. Jadaliha, “A Novel Decomposed Modeling Approach for a Nonlinear Complicated System,” Proc. 14th Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2006.
- A. M. Shahri, and M. Ramezani, “A Supervisory Fuzzy Collision Avoidance in a Dynamic Environment,” Proc. 14th Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2006.
- A. Fasih, and A. M. Shahri, “Implementation of Three Dimensional Virtual Robots and Environments for Telerobotic Systems,” Proc. 6th International Workshop on Research and Education in Mechatronics (REM), Annecy, France, June-July 2005.
- R. Fathzadeh, V. Mokhtari, and A. M. Shahri, “On-line Learning with Rule based Expert System,” Proc. 2nd International Conference Language and Technology (ICLT), Poznan, Poland, April 2005, pp. 419-422.
- A. M. Shahri, B. Bader, and A. Naghdi, “Virtual Instrument based Control e-Laboratory (VICL),” Proc. 3rd IFAC Symposium on Mechatronic Systems, Sydney, Australia, September 2004.
- A. M. Shahri, “Advanced Control e-Laboratory (ACeL) based on Virtual Instrumentation,” Proc. IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), Montreal, Canada, May 2003, pp. 1-4.
- A. M. Shahri, and R. Asgari, “Adaptive Fuzzy Force Control of an Anti-Personnel (AP) Mine Detector Robot”, Proc. IEEE Canadian Conference on Electrical and Computer Engineering Conference (CCECE), Toronto, Canada, May 2001, pp. 99-104.
- A. M. Shahri, F. Naghdy, and M. Reslan, “Interactive Multimedia Tools for Teaching Automatic Control Systems”, Proc. World Internet and Electronic Cities Conference (WIECC), Kish Island, Iran, May 2001, pp. 101-107.
- R. Asgari, A. M. Shahri, and M. Farrokhi, “Adaptive Fuzzy Control of a Mine Detector Arm”, Proc. 9th Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2001, pp. 161-168.

- A. M. Shahri, and F. Naghdy, “Anti-Personnel Mine Detection Algorithm based on a Multi Probe Robotics Arm”, Proc. IARP Workshop on Robotics for Humanitarian Demining, Toulouse, France, September 1998, pp. 77-85.
- A. M. Shahri, and F. Naghdy, “Neuro-Fuzzy Impact Control (NFIC) for Anti-Personnel (AP) Mines Detection”, Proc. 5th International Conference on Control, Automation, Robotics and Vision (ICARCV), Singapore, December 1998, pp. 714-718.
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