



1- Faculty Profile:

Family Name: Mosavi

First Name: Mohammad Reza

Title: Professor

Contact Information:

Tel: 77240492

Fax: 77240490

Email: M_Mosavi@iust.ac.ir

2- Higher Education:

1. B.S: 1997, Electronic Engineering, Department of Electrical Engineering, Iran University of Science & Technology (First Rank, Honors).
2. M.S: 1998, Electronic Engineering, Department of Electrical Engineering, Iran University of Science & Technology (First Rank, Honors).
3. Ph.D: 2004, Electronic Engineering, Department of Electrical Engineering, Iran University of Science & Technology (First Rank, Honors).

3- Expertise:

Research areas:

1. Global Navigation Satellite Systems
2. Advanced Artificial Intelligent Systems
3. Design of Systems based on Microprocessors and Microcontrollers
4. Advanced Computers Architecture
5. Digital Signals Processing
6. Sensors

4- Taught Courses:

Undergraduate:

1. Electric Circuits
2. Basis of Electrical Engineering
3. Electronic Circuits
4. Machine Languages and Assembly
5. Logic Circuits Design
6. Computer Systems Architecture
7. Microprocessor I
8. Basis of Microcontrollers

Postgraduate:

1. Evolutionary Algorithms
2. Neural Networks
3. Microprocessor II
4. Advanced Computer Systems Architecture
5. Radio Frequency Integrated Circuits

5- Research and Industrial Projects:

1. **M. R. Mosavi**, "Design and Implementation of a Precise Positioning using Low Cost GPS Receivers", Iran University of Science and Technology, 2004.

2. **M. R. Mosavi**, "Prediction of DGPS Corrections using Neural Networks based on Wavelet", Iran University of Science and Technology, 2005.
3. **M. R. Mosavi**, "Accurate and On-Line Estimation of Single-Frequency GPS Receivers Positioning Errors using Parallel-Structure Neural Networks", Iran University of Science and Technology, 2006.
4. **M. R. Mosavi**, "Design and Implementation of an Accurate Timing Sensor based on Single-Frequency GPS Receivers", Iran University of Science and Technology, 2006.
5. **M. R. Mosavi**, "GPS Data Smoothing", Iran University of Science and Technology, 2007.
6. **M. R. Mosavi**, "GPS GDOP Approximation and Clustering and using Neural Networks", Iran University of Science and Technology, 2008.
7. **M. R. Mosavi**, "Modeling of Ionospheric Time-Delay in Single-Frequency GPS Receivers using Neural Networks", Iran University of Science and Technology, 2009.
8. **M. R. Mosavi**, "GPS Data Processing using Evolutionary Algorithms", Iran University of Science and Technology, 2010.
9. **M. R. Mosavi**, "GPS Cycle Slip Detection and Correction using Wavelet Transform", Iran University of Science and Technology, 2011.
10. **M. R. Mosavi**, "GPS Data Smoothing using Pseudo-Range and Carrier Phase Measurements", Aerospace Organization, 2011.
11. **M. R. Mosavi**, "Fault Location Techniques in Power Systems using GPS Timing", Iran Distribution Management Company, 2012.
12. **M. R. Mosavi**, "A PMU Placement Optimal Method in Power Systems using Modified ACO Algorithm", Iran Distribution Management Company, 2012.
13. **M. R. Mosavi**, "Design of a Mixed DLL with Low Jitter and Wide Frequency Range", Iran Microelectronic Industry, 2012.
14. **M. R. Mosavi**, "Improvement of Packet Loss and Delay in ADSL Lines of Telecommunication Company of Tehran", Iran Telecommunication Company, 2013.
15. **M. R. Mosavi**, "Design and Implementation of an Anti-Jamming Effect Method in Single-Frequency GPS Receiver", Iran University of Science and Technology, 2013.
16. **M. R. Mosavi**, "Software Simulation a Single-Frequency GPS Receiver", Iran University of Science and Technology, 2014.
17. **M. R. Mosavi**, "Design and Implementation of an Anti-Spoofing Method in Single-Frequency GPS Receiver", Iran University of Science and Technology, 2015.
18. **M. R. Mosavi**, "GPS and INS Integration using Intelligent Systems", Iran University of Science and Technology, 2016.
19. **M. R. Mosavi**, "Infrared Dim Target Detection", Iran University of Science and Technology, 2017.

6- Journal Papers:

1. **M. R. Mosavi**, K. Mohammadi and M. H. Refan, "Adaptive Neurofuzzy and Positioning Accuracy", GIS Development Magazine, Vol.7, Issue.3, pp.19-20, March 2003.
2. **M. R. Mosavi**, K. Mohammadi and M. H. Refan, "A New Approach for Improving of GPS Positioning Accuracy using an Adaptive Neurofuzzy System, before and after S/A Is Turned off", Journal of Engineering Science, Iran University of Science and Technology, Vol.15, No.1, pp.101-114, 2004.
3. **M. R. Mosavi**, "A Wavelet Based Neural Network for DGPS Corrections Prediction", WSEAS Transactions on Systems, Greece, Vol.3, Issue.10, pp.3070-3075, December 2004.
4. **M. R. Mosavi**, "A Practical Approach for Accurate Positioning with L1 GPS Receivers using Neural Networks", Journal of Intelligent & Fuzzy Systems, USA, Vol.17, No.2, pp.159-171, March 2006. (ISI)
5. **M. R. Mosavi**, "Comparing DGPS Corrections Prediction using Neural Network, Fuzzy Neural Network and Kalman Filter", Journal of GPS Solutions, USA, Vol.10, No.2, pp.97-107, May 2006. (ISI)
6. **M. R. Mosavi**, "Real Time Prediction of GPS Receivers Timing Errors using Parallel-Structure Neural Networks", Journal of Geoinformatics, Vol.3, No.3, pp.53-61, September 2007.

7. **M. R. Mosavi**, "Precise Real-Time Positioning with a Low Cost GPS Engine using Neural Networks", *Journal of Survey Review*, UK, Vol.39, No.306, pp.316-327, October 2007. (ISI)
8. **M. R. Mosavi**, "GPS Receivers Timing Data Processing using Neural Networks: Optimal Estimation and Errors Modeling", *Journal of Neural Systems*, Vol.17, No.5, pp.383-393, October 2007. (ISI)
9. **M. R. Mosavi**, "High Performance Methods for GPS GDOP Approximation using Neural Networks", *Journal of Geoinformatics*, Vol.4, No.3, pp.9-16, September 2008.
10. **M. R. Mosavi**, "Recurrent Polynomial Neural Networks for Enhancing Performance of GPS in Electric Systems", *Journal of Wireless Sensor Network*, Vol.1, No.2, pp.95-103, July 2009.
11. **M. R. Mosavi**, "GPS Data Smoothing", *Journal of Remote Sensing*, Vol.22, pp.21-35, 2009.
12. **M. R. Mosavi**, "Neural Networks-based Single-Frequency GPS Receivers Ionospheric Time-Delay Modeling", *Asian Journal of Geoinformatics*, Vol.9, No.4, pp.35-40, December 2009.
13. **M. R. Mosavi**, "Infrared Counter-Countermeasure Efficient Techniques using Neural Network, Fuzzy System and Kalman Filter", *Iranian Journal of Electrical and Electronic Engineering*, Vol.5, No.4, pp.215-222, December 2009.
14. **M. R. Mosavi**, "Evolutionary Algorithms Approach for Errors High-Precision Modeling in Single-Frequency GPS Receivers", *Journal of Geoinformatics*, Vol.6, No.2, pp.17-25, June 2010.
15. **M. R. Mosavi**, "Knowledge-based Methods for Optimum Approximation of Geometric Dilution of Precision", *Journal of Computational Intelligence and Applications*, Vol.9, No.2, pp.153-170, June 2010.
16. **M. R. Mosavi** and M. Sarraf, "Precise Modeling of GPS GDOP using Neural Network", *International Review of Modelling and Simulations*, Vol.3, No.4, pp.665-671, August 2010.
17. **M. R. Mosavi**, "An Effective Method for GPS GDOP Clustering using Ant Colony Optimization Algorithm", *Asian Journal of Geoinformatics*, Vol.10, No.4, pp.3-9, December 2010.
18. **M. R. Mosavi**, "Estimation of Pseudo-Range DGPS Corrections using Neural Networks Trained by Evolutionary Algorithms", *Journal of Review of Electrical Engineering*, Vol.5, No.6, pp.2715-2721, December 2010. (ISI)
19. **M. R. Mosavi**, A. Nakhaei and Sh. Bagherinia, "Improvement in Differential GPS Accuracy using Kalman Filter", *Journal of Aerospace Science and Technology*, Vol.7, No.2, pp.139-150, 2010.
20. **M. R. Mosavi**, "Wavelet Neural Network for Corrections Prediction in Single-Frequency GPS Users", *Journal of Neural Processing Letters*, Vol.33, No.2, pp.137-150, 2011. (ISI)
21. **M. R. Mosavi**, "Applying Genetic Algorithm to Fast and Precise Selection of GPS Satellites", *Asian Journal of Applied Sciences*, Vol.4, No.3, pp.229-237, 2011.
22. **M. R. Mosavi**, A. Ayatollahi and I. EmamGolipour, "Noise Smoothing for GPS Receivers Positioning Data using Wavelet Transform", *International Review of Modelling and Simulations*, Vol.4, No.2, pp.661-667, 2011.
23. **M. R. Mosavi** and H. Nabavi, "Improving DGPS Accuracy using Neural Network Modeling", *Australian Journal of Basic and Applied Sciences*, Vol.5, No.5, pp.848-856, 2011.
24. M. Saraf, K. Mohammadi and **M. R. Mosavi**, "Classifying the Geometric Dilution of Precision of GPS Satellites utilizing Bayesian Decision Theory", *Journal of Computers & Electrical Engineering*, Vol.37, pp.1009-1018, 2011. (ISI)
25. **M. R. Mosavi**, "Error Reduction for GPS Accurate Timing in Power Systems using Kalman Filters and Neural Networks", *Journal of Electrical Review*, Vol.87, No.12, pp.161-168, 2011. (ISI)
26. **M. R. Mosavi** and M. Mirzaee Pour, "Optimal Clustering of GPS Satellites Set using Modified ACO Algorithm", *Australian Journal of Basic and Applied Sciences*, Vol.5, No.7, pp.1166-1173, 2011.
27. **M. R. Mosavi** and H. Azami, "Applying Neural Network for Clustering of GPS Satellites", *Journal of Geoinformatics*, Vol.7, No.3, pp.7-14, 2011.
28. S. Tafazoli and **M. R. Mosavi**, "Performance Improvement of GPS GDOP Approximation

- using Recurrent Wavelet Neural Network”, Journal of Geographic Information System, Vol.3, No.4, pp.318-322, 2011.
29. S. Tafazoli, **M. R. Mosavi** and N. Rahemi, “Comparing GPS GDOP Approximation Accuracy using Recurrent Wavelet Neural Network and ARMA Modeling”, Journal of Information and Communication Technologies, Vol.1, Issue.5, pp.1-6, 2011.
 30. **M. R. Mosavi**, M. Sadeghian and S. Saeidi, “Increasing DGPS Navigation Accuracy using Kalman Filter Tuned by Genetic Algorithm”, Journal of Computer Science Issues, Vol.8, Issue.6, pp.246-252, 2011.
 31. **M. R. Mosavi**, A. Rahmati and A. Khoshsaadat, “An ANFIS-Based Neuro-Fuzzy Controller with Supervisory Learning for Speed Control of Brushless DC Motor”, International Review of Modelling and Simulations, Vol.4, No.5, pp.2246-2254, 2011.
 32. **M. R. Mosavi**, A. Rahmati and A. Khoshsaadat, “Design of Efficient Adaptive Neuro-Fuzzy Controller based on Supervisory Learning Capable for Speed and Torque Control of BLDC Motor”, Journal of Electrical Review, Vol.88, No.1a, pp.238-246, 2012. (ISI)
 33. **M. R. Mosavi** and M. Shiroie, “Efficient Evolutionary Algorithms for GPS Satellites Classification”, Arabian Journal for Science and Engineering, Vol.37, No.7, pp.2003-2015, 2012. (ISI)
 34. F. Nakhaei, A. Sam, **M. R. Mosavi** and A. Nakhaei, “Prediction of XRF Analyzers Error for Elements On-Line Assaying using Kalman Filter”, Journal of Mining Science and Technology, Vol.22, Issue.4, pp.595-601, 2012.
 35. F. Nakhaei, **M. R. Mosavi**, A. Sam and Y. Vaghei, “Recovery and Grade Accurate Prediction of Pilot Plant Flotation Column Concentrate: Neural Network and Statistical Techniques”, Journal of Mineral Processing, Vol.110-111, pp.140-154, 2012. (ISI)
 36. M. Pashaian and **M. R. Mosavi**, “Accurate Intelligent Map Matching Algorithms for Vehicle Positioning System”, Journal of Computer Science Issues, Vol.9, Issue.2, No.3, pp.114-119, 2012.
 37. M. Ranjbar and **M. R. Mosavi**, “Simulated Annealing Clustering for Optimum GPS Satellite Selection”, Journal of Computer Science Issues, Vol.9, Issue.3, No.3, pp.100-104, 2012.
 38. A. Tabatabaei, **M. R. Mosavi** and A. Rahmati, “Fault Location Techniques in Power System based on Traveling Wave using Wavelet Analysis and GPS Timing”, Journal of Electrical Review, Vol.88, No.6, pp.347-350, 2012. (ISI)
 39. **M. R. Mosavi**, A. A. Akhyani and A. Rahmati, “A PMU Placement Optimal Method in Power Systems using Modified ACO Algorithm and GPS Timing”, Journal of Electrical Review, Vol.88, No.8, pp.346-349, 2012. (ISI)
 40. M. Ahmadi and **M. R. Mosavi**, “Precise Solution of Position Equations in GPS Receivers using Neural Networks”, Journal of Soft Computing and Information Technology, Vol.1, No.1, pp.35-45, 2012. (in Persian)
 41. F. Nakhaeie, A. Sam and **M. R. Mosavi**, “Concentrate Grade Prediction in an Industrial Flotation Column using the Artificial Neural Network”, Arabian Journal for Science and Engineering, Vol.38, No.5, pp.1011-1023, 2013. (ISI)
 42. H. Azami, **M. R. Mosavi** and S. Sanei, “Classification of GPS Satellites using Improved Back Propagation Training Algorithms”, Journal of Wireless Personal Communications, Vol.71, No.2, pp.789-803, 2013. (ISI)
 43. F. Nakhaei, **M. R. Mosavi** and A. Sam, “Recovery and Grade Prediction of Pilot Plant Flotation Column Concentrate by Hybrid Neural Genetic Algorithm”, Journal of Mining Science and Technology, Vol.23, Issue.1, pp.69-77, 2013.
 44. **M. R. Mosavi** and A. A. Akhyani, “PMU Placement Methods in Power Systems based on Evolutionary Algorithms and GPS Receiver”, Iranian Journal of Electrical and Electronic Engineering, Vol.9, No.2, pp.76-87, 2013.
 45. S. Y. Alchekh Yasin, A. R. Yrfanean, **M. R. Mosavi** and A. Mohammadi, “Modeling and Simulation of the Active Jammer Effect in the Crossed Array Detectors Infrared Seeker”, Journal of Computer Applications, Vol.72, No.4, pp.15-22, 2013.
 46. A. R. Yrfanean, **M. R. Mosavi**, A. Mohammadi and S. Y. Alchekh Yasin, “Improving the Target Position Detection in the Crossed Array Detectors Seeker by Categorizing the FOV up

- to the Pulses Distribution”, Journal of Computer Applications, Vol.72, No.4, pp.28-36, 2013.
47. **M. R. Mosavi** and I. EmamGolipour, “De-noising of GPS Receivers Positioning Data using Wavelet Transform and Bilateral Filtering”, Journal of Wireless Personal Communications, Vol.71, No.3, pp.2295-2312, 2013. (ISI)
 48. **M. R. Mosavi** and M. R. Azarbad, “Multipath Error Mitigation Based on Wavelet Transform in L1 GPS Receivers for Kinematic Applications”, International Journal of Electronics and Communications, USA, Vol.67, No.10, pp.875-884, 2013. (ISI)
 49. **M. R. Mosavi**, M. Soltani Azad and I. EmamGholipour, “Position Estimation in Single-Frequency GPS Receivers using Kalman Filter with Pseudo-Range and Carrier Phase Measurements”, Journal of Wireless Personal Communications, Vol.72, No.4, pp.2563-2576, 2013. (ISI)
 50. M. Rafei and **M. R. Mosavi**, “A New 0.25-12.5 GHz High Quality Factor Low Power Active Inductor using Local RC Feedback to Cancel Series-Loss Resistance”, Arabian Journal for Science and Engineering, Vol.38, No.11, pp.3125-3132, 2013. (ISI)
 51. S. Y. Alchekh Yasin, A. R. Yrfanean, **M. R. Mosavi** and A. Mohammadi, “The Flare Detection in the Two Color Crossed Array Detectors Infrared Seeker”, Journal of Computer Applications, Vol.81, No.4, pp.34-42, 2013.
 52. S. Y. Alchekh Yasin, A. R. Yrfanean, **M. R. Mosavi** and A. Mohammadi, “Countermeasure Detection in the Two-Color Pulsed Infrared Seekers using Pulse Number”, Journal of Scientific & Engineering Research, Vol.4, No.12, pp.751-759, 2013.
 53. **M. R. Mosavi**, M. Abedi and M. J. Rezaei, “A New Method for Jamming Mitigation in JTIDS/Link16 Navigation Systems”, Iranian Journal of Marine Technologies, Vol.1, No.1, pp.1-10, 2013. (in Persian)
 54. A. R. Bazyar, M. Moazedi, **M. R. Mosavi** and S. Z. Ghaffari, “A New GPS Spoofing Detection Method for Marine Navigation Systems based on Pseudo-Range Measurements”, Iranian Journal of Marine Technologies, Vol.1, No.2, pp.1-13, 2013. (in Persian)
 55. A. R. Bazyar, **M. R. Mosavi**, A. R. Rahmati and M. Moazedi, “A New GPS Spoofing Method for Protection of Marine Navigation Systems”, Iranian Journal of Marine Technologies, Vol.2, No.1, pp.1-12, 2015. (in Persian)
 56. F. Nakhaei, A. Sam, **M. R. Mosavi** and A. Nakhaei, “On-Line Prediction and Correction of XRF Analyzer Error in Elements Continuous Assaying using Optimal Estimator”, Journal of Analytical and Numerical Methods in Mining Engineering, Vol.2, No.4, pp.1-10, 2013. (in Persian)
 57. H. Alimohammadi and **M. R. Mosavi**, “A Sub-Optimal Algorithm for Radar Interference Resource Allocation”, Journal of Electronics and Cyber Defense, Vol.1, No.3, pp.33-41, 2014. (in Persian)
 58. B. Norouzi, S. M. Seyedzadeh, S. M. Kuchaki and **M. R. Mosavi**, “A Novel Image Encryption based on Hash Function with Only Two-Round Diffusion Process”, Journal of Multimedia Systems, Vol.20, No.1, pp.45-64, 2014. (ISI)
 59. M. Niazi, A. Amirkhani and **M. R. Mosavi**, “Investigation and Simulation of a Two-Channel Drop Filter with Tunable Double Optical Resonators”, Journal of Superconductivity and Novel Magnetism, Vol.27, No.3, pp.827-834, 2014. (ISI)
 60. **M. R. Mosavi**, H. Nabavi and A. Nakhaei, “Neural Technologies for Precise Timing in Electric Power Systems with a Single-Frequency GPS Receiver”, Journal of Wireless Personal Communications, Vol.75, No.2, pp.925-941, 2014. (ISI)
 61. **M. R. Mosavi**, S. Azarshahi, I. EmamGholipour and A. A. Abedi, “Least Squares Techniques for GPS Receivers Positioning Filter using Pseudo-range and Carrier Phase Measurements”, Iranian Journal of Electrical and Electronic Engineering, Vol.10, No.1, pp.18-26, 2014.
 62. S. Y. Alchekh Yasin, A. R. Yrfanean, **M. R. Mosavi** and A. Mohammadi, “Design and Simulation a New Unique-Slit Reticle for Pulsed Infrared Seekers”, Journal of the Optical Society of Korea, Vol.18, No.1, pp.1-8, 2014. (ISI)
 63. M. Rafei, S. E. Sorkhabi and **M. R. Mosavi**, “Multiobjective Optimization by Means of Multidimensional MLP Neural Networks”, Journal of Neural Network World, Vol.25, No.1, pp.31-56, 2014. (ISI)

64. M. Saraf, **M. R. Mosavi** and K. Mohammadi, "Novel Radial Basis Function Neural Networks based on Probabilistic Evolutionary and Gaussian Mixture Model for Satellites Optimum Selection", *Journal of Aerospace Science and Technology*, Vol.9, No.2, pp.71-81, 2012.
65. M. R. Azarbad and **M. R. Mosavi**, "A New Method to Mitigate Multipath Error in Single-Frequency GPS Receiver based on Wavelet Transform", *Journal of GPS Solutions*, Vol.18, No.2, pp.189-198, 2014. (ISI)
66. A. Amirkhani, **M. R. Mosavi**, F. Mohammadzadeh and S. B. Shokouhi, "Classification of Intraductal Breast Lesions Based on the Fuzzy Cognitive Map", *Arabian Journal for Science and Engineering*, Vol.39, No.5, pp.3723-3732, 2014. (ISI)
67. A. Amirkhani, M. Niazi and **M. R. Mosavi**, "Heterostructure Photonic Crystal Multichannel Drop Filter Based on Microcavities and Ring Resonators", *Journal of Optica Applicata*, Vol.44, No.1, pp.5-15, 2014. (ISI)
68. N. Rahemi, **M. R. Mosavi**, A. A. Abedi and S. Mirzakuchaki, "Accurate Solution of Navigation Equations in GPS Receivers for Very High Velocities using Pseudo-range Measurements", *Journal of Advances in Aerospace Engineering*, Vol.2014, pp.1-8, 2014.
69. A. Tabatabaei and **M. R. Mosavi**, "Rapid and Precise GLONASS GDOP Approximation using Neural Networks", *Journal of Wireless Personal Communications*, Vol.77, No.4, pp.2675-2685, 2014. (ISI)
70. B. Norouzi, S. M. Kuchaki, S. M. Seyedzadeh and **M. R. Mosavi**, "A Simple, Sensitive and Secure Image Encryption Algorithm based on Hyper-Chaotic System with Only One Round Diffusion Process", *Journal of Multimedia Tools and Applications*, Vol.71, No.3, pp.1469-1497, 2014. (ISI)
71. A. Amirkhani, M. Niazi and **M. R. Mosavi**, "An Ultra-Small Heterostructure Wavelength Division Multiplexer (WDM) with the Ability to Select Two Wavelengths from the s-Band", *Journal of Optical and Quantum Electronics*, Vol.46, No.7, pp.897-909, 2014. (ISI)
72. **M. R. Mosavi** and A. Tabatabaei, "Wavelet and Neural Network Based Fault Location in Power Systems using Statistical Analysis of Traveling Wave", *Arabian Journal for Science and Engineering*, Vol.39, No.8, pp.6207-6214, 2014. (ISI)
73. S. Y. Alchekh Yasin, A. R. Yrfanean, **M. R. Mosavi** and A. Mohammadi, "An Effective Approach for Simulating the Two-Color Infrared Seekers", *Journal of Infrared Physics & Technology*, Vol.67, No.3, pp.73-83, 2014. (ISI)
74. **M. R. Mosavi**, M. J. Rezaei, N. Hosseinzadeh and R. A. Kiaamiri, "New Intelligent Methods for Detection and Mitigation of Spoofing Signal in GPS Receivers", *Journal of Electronics and Cyber Defense*, Vol.2, No.1, pp.71-81, 2014. (in Persian)
75. A. Khoshsaadat, **M. R. Mosavi**, J. S. Moghani and A. Khoshooei, "Design of a Controller with ANFIS Architecture Attendant Learning Ability for SSSC-Based Damping Controller Applied in Single Machine Infinite Bus System", *Iranian Journal of Electrical and Electronic Engineering*, Vol.10, No.3, pp.212-222, 2014.
76. A. R. Yrfanean, **M. R. Mosavi**, A. Mohammadi and S. Y. Alchekh Yasin, "Improving the Target Position Detection in the Crossed Array Trackers Seeker using the Pulses Number Distribution in the FOV", *Journal of Infrared and Millimeter Waves*, Vol.33, No.5, pp.451-459, 2014. (ISI)
77. M. T. Hajjali, **M. R. Mosavi** and K. Shahanaghi, "Estimation of Project Completion Time-based on a Mixture of Expert in an Interactive Space", *Journal of Modern Applied Science*, Vol.8, No.6, pp.229-237, 2014.
78. M. Rafei and **M. R. Mosavi**, "Design of an Ultra-High-Speed CMOS D-Latch", *Journal of Electronics Industries*, Vol.5, No.1, pp.27-33, 2014. (in Persian)
79. **M. R. Mosavi**, A. Bazyar and M. Moazedi, "A New Wavelet based Method for Reduction of Spoofing Effect on Single-Frequency GPS Receivers", *Journal of Soft Computing and Information Technology*, Vol.3, No.3, pp.59-68, 2014. (in Persian)
80. **M. R. Mosavi** and N. Rahemi, "Positioning Performance Analysis using RWLS Algorithm based on Variance Estimation Methods", *Journal of Aerospace Science and Technology*, Vol.42, pp.88-96, 2015. (ISI)
81. B. Norouzi, S. M. Kuchaki, S. M. Seyedzadeh and **M. R. Mosavi**, "A Novel Image Encryption

- based on Row-Column, Masking and Main Diffusion Processes with Hyper Chaos”, Journal of Multimedia Tools and Applications, Vol.74, No.3, pp.781-811, 2015. (ISI)
82. **M. R. Mosavi**, N. Rahemi and S. Mirzakoouchaki, “Precise Positioning of High-Speed GPS Receivers using LMS Algorithm Combined with Fuzzy Logic”, Journal of Space Science and Technology, Vol.7, No.4, pp.63-72, 2014. (in Persian)
 83. **M. R. Mosavi**, M. Khishe and H. Hardani, “Classification of Sonar Targets using OMKC”, Iranian Journal of Marine Science and Technology, Vol.72, No.4, pp.25-35, 2014. (in Persian)
 84. **M. R. Mosavi** and H. Nabavi, “Accurate Prediction of DGPS Correction using Neural Network Trained by Imperialistic Competition Algorithm”, Journal of Advances in Computer Research, Vol.6, No.2, pp.73-82, 2015.
 85. **M. R. Mosavi**, M. Moazedi and A. R. Baziar, “GPS Delay Spoofing Compensation by Mitigation Tracking Error based on Neural Networks”, Journal of Electronics Industries, Vol.6, No.1, pp.67-78, 2015. (in Persian)
 86. A. Baharmast, S. J. Azhari, M. Rafei and **M. R. Mosavi**, “Design of Four Quadrant Analog Multiplier with High Robustness against PVT Variations using Genetic Algorithm”, Journal of Soft Computing and Information Technology, Vol.3, No.4, pp.38-47, 2015.
 87. S. M. Seyedzadeh, B. Norouzi, **M. R. Mosavi** and S. M. Kuchaki, “A Novel Color Image Encryption Algorithm based on Spatial Permutation and Quantum Chaotic Map”, Journal of Nonlinear Dynamics and Chaos in Engineering Systems, Vol.81, Issues 1-2, pp.511-529, 2015. (ISI)
 88. M. Bagheri, **M. R. Mosavi** and K. Mohammadi, “Improvement of Performance in Design of Digital Combinational Circuits using Evolvable Hardware”, Journal of Intelligent Automation Systems, Shahroodut University, Vol.1, No.1, pp.1-11, 2014.
 89. **M. R. Mosavi**, F. Farabi and S. Karami, “Optimal Choice of Random Variables in D-ITG Traffic Generating Tool using Evolutionary Algorithms”, Iranian Journal of Electrical and Electronic Engineering, Vol.11, No.2, pp.101-108, 2015.
 90. **M. R. Mosavi**, M. Pashaian, M. J. Rezaei and K. Mohammadi, “Jamming Mitigation in GPS Receivers using Wavelet Packet Coefficients Thresholding”, IET Signal Processing, Vol.9, No.5, pp.457-464, 2015. (ISI)
 91. A. R. Baziar, M. Moazedi and **M. R. Mosavi**, “Analysis of Single Frequency GPS Receiver under Delay and Combinig Spoofing Algorithm”, Journal of Wireless Personal Communications, Vol.83, No.3, pp.1955-1970, 2015. (ISI)
 92. **M. R. Mosavi**, M. Khishe, M. Aghababaie and F. Mohammadzadeh, “Statistical Parameters Approximation of Active Sonar Clutter using Effective Beam of Array Width”, Iranian Journal of Marine Science and Technology, Vol.73, No.1, pp.11-22, 2015. (in Persian)
 93. A. Mirmahdavi, A. Amirkhani-Shahraki, A. Ahmadyfard and **M. R. Mosavi**, “Random Texture Defect Detection by Modelling the Extracted Features from the Optimal Gabor Filter”, Journal of Advances in Computer Research, Vol.6, No.3, pp.65-85, 2015.
 94. F. Shafiee, **M. R. Mosavi** and A. A. Abedi, “Interference Mitigation in GPS using Multi-Layer Neural Network”, Journal of Soft Computing and Information Technology, Vol.4, No.3, pp.109-117, 2015. (in Persian)
 95. A. Tabatabaei and **M. R. Mosavi**, “A Fast GLONASS FDMA Acquisition Algorithm using Multi-Satellite Search Strategy”, Journal of Wireless Personal Communications, Vol.84, No.4, pp.2665-2678, 2015. (ISI)
 96. N. Shafiee, **M. R. Mosavi** and M. Moazedi, “Detection of Delay Spoofing Attack base on Multi-Layer Neural Network in Single-Frequency GPS Receiver”, Journal of Electronics and Cyber Defense, Vol.3, No.1, pp.69-80, 2015. (in Persian)
 97. **M. R. Mosavi** and Z. Shokhmzan, “Spoofing Mitigation of GPS Receivers using Normalized Least Mean Squares”, Iranian Journal of Electrical and Electronic Engineering, Vol.11, No.3, pp.1-11, 2015.
 98. A. Ebrahimi Ghahnavieh, A. A. Raie, A. Amirkhani and **M. R. Mosavi**, “Car License Plate Recognition using Color Features of Persian License Plates”, Journal of Advances in Computer Research, Vol.6, No.4, pp.27-38, 2015.
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77. A. Najafi, A. Amirkhani, E. I. Papageorgiou and **M. R. Mosavi**, “Medical Decision Making based on Fuzzy Cognitive Map and a Generalization Linguistic Weighted Power Mean for Computing with Words”, IEEE Conference on Fuzzy Systems, Naples, Italy, 9-12 July 2017.
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8- Books:

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2. **M. R. Mosavi**, “Design of Digital Interface Circuits based on 16-bit 80196 Microcontroller”, Iran University of Science and Technology, 2009.
3. **M. R. Mosavi**, “Data Processing on Single-Frequency GPS Receivers”, Iran University of Science and Technology, 2010.
4. H. Sh. Shahhoseini, **M. R. Mosavi** and M. Molla Jafari, “Evolutionary Algorithms: Principle, Applications and Implementation”, Iran University of Science and Technology, 2012.
5. **M. R. Mosavi**, M. Aghababaie, M. J. Naseri, “Introduction to SonoBuoy and Its Performance”, Noshahr University of Marine Science and Technology, 2014.
6. **M. R. Mosavi**, M. Moazedi, M. J. Rezaei and A. Tabatabaei, "Interference Mitigation in GPS Receivers", Iran University of Science and Technology, 2015.
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9- Professional Activities:

Academic Positions:

Professional Employment:

1. 2001-2003 : Instructor
2. 2004-2007 : Assistant Professor
3. 2008-2012: Associate Professor
4. 2013-Now: Professor