

Conference Publications

1. *Design of robust adaptive digital set point tracking PID controllers for linear multivariable plants*, B. Porter, A. Khaki- Sedigh, Proceedings of the fifth Yale workshop on applications of adaptive system theory, Yale university, pp 96- 106, 1987.
2. *Design of digital set point tracking PID controllers for warships*, B. Porter, A. Khaki- Sedigh, IEE coll. On control in marine industry, pp 1- 3, 1988.
3. *Design of digital set point tracking PID controllers for hydrofoils*, B. Porter, A. Khaki- Sedigh, Proc. Of IEE International Conference on Control, Control 88, pp 660-665, 1988.
4. *Design of robust digital set point tracking PI controllers for non- minimum phase multivariable plants*, B. Porter, A. Khaki- Sedigh, IFAC workshop on robust adaptive control, Newcastle, Australia, 20-24 August, 1988.
5. *Design of adaptive digital set point controllers for linear multivariable type-one plants*, B. Porter, A. Khaki- Sedigh, IFAC Symposium on Adaptive Systems in Control and Signal Processing, pp 193-198, 1989.
6. *Design of tunable digital set point tracking controllers for linear multivariable mixed-type plants*, B. Porter, A. Khaki- Sedigh, International Conference on Modeling and Control, Tehran, Iran, 1990.
7. *Transmission zeros assignment for linear multivariable plants*, A. Khaki- Sedigh, IASTED International Symposium on Modeling Identification and Control, Austria, 1991.
8. *Design of high gain error actuated controllers for linear multivariable non-minimum phase plants*, A. Khaki- Sedigh, 1991 American Control Conference Boston, June 26-28, 1991.
9. *Building an expert system for turbogenerator fault diagnosis and repair*, A. Khaki- Sedigh, J. Sayad, S. Sayad, Italy, ISSMM., 1991.
10. *Design of multivariable adaptive fast sampling tracking systems*, A. Khaki- Sedigh, J. Kamali, Electrical Engineering Conference, K. N. Toosi University of Technology, Tehran, Iran, 1991. (In Persian)
11. *Design of fast sampling error actuated adaptive controllers for linear multivariable plants*, A. Khaki- Sedigh, J. Kamali, ICARCV'92, Second International Conference on Automation, Robotics and Computer Vision, 15-18 Sep. 1992, Singapore.
12. *An expert system for alarm processing in power system operation*, A. Khaki-Sedigh, J. Sayad, P. Hamidi, University of British Columbia, IASTED International Conference on Power System Engineering, Vancouver, Canada, 5-7 Aug., 1992.
13. *An expert system for alarm processing in power system operation (ALCON)*, A. Khaki-Sedigh, J. Sayad, P. Hamidi, S. Saltryan, International conference on fault diagnosis, Toulouse, France, April 5-7, 1993.
14. *Adaptive tuning of PID gains using Neural Networks*, A. Khaki- Sedigh, A. Sodagar, ICEE'93, Tehran, Iran, May 1993.
15. *An expert system for power transformers fault diagnosis (TRANTEX)*, A. Khaki-Sedigh, J. Sayad, P. Hamidi, A. P. Nanjappa, Cigre Symposium, Berlin, 1993.
16. *Modeling and implementation of alignment in inertial navigation systems*, B. Andisheh, A. Khaki- Sedigh, ICEE'93, Tehran, Iran, 1993. (In Persian)
17. *Design of multivariable power systems stabilizers using INA design technique*, A. Khaki- Sedigh, I. Rezaia, ICEE'93, Tehran Iran, 1993. (In Persian)
18. *Design of robust power system stabilizers using QFT and a comparison with classical and state- space methods*, ICEE'93, Tehran, Iran, 1993. (In Persian)
19. *Design of robust PSS using QFT*, A. Khaki- Sedigh, G. Alizahedi, IEE International Conference on Control 94, Coventry, England, 1994.
20. *On- line tuning of PID controllers using Neural Networks*, A. Khaki-Sedigh, H. Jula, ICARCV'94, Fourth International Conference on Automation, Robotics and Computer Vision, Singapore, 1994.
21. *Design of robust multivariable PSS using QFT and a comparison with LQR based PSS'S*, A. Khaki- Sedigh, G. Alizadeh, ICEE'94, Theran, Iran, 1994. (In Persian)
22. *Linear and nonlinear identification of 3- degree of freedom turn table*, N. Afshar, K. Haeri. A, Khaki- Sedigh, A. Mahdenfina, ICEE'94, Tehran, Iran, 1994.
23. *Tracking control for a 3- degree of freedom turn table*, K. Haeri, N. Afshar, A. Khaki- Sedigh, A. Mahdemina, ICEE'94, Tehran, Iran, 1994.
24. *Identification of the dynamics of stable platforms using Neural Networks*, H. Khaloozadeh, , A. Khaki- Sedigh, R. Amjadi far, ICEE'94, Tehran, Iran, 1994.
25. *Adaptive control of stable platforms using Neural Networks*, H. Khaloozadeh, , A. Khaki- Sedigh, ICEE'94, Tehran, Iran, 1994.
26. *Robust Internal stability theorem for inversion- based sequential procedure of multivariable QFT*, F. Kazemi, A. Khaki- Sedigh, ICEE-96, University of Tehran, May 13-16, 1996.
27. *Decoupling of multivariable systems using inverse neuro-controllers*, A. Khaki- Sedigh, A. S. Mootab,

- International conference on intelligent and Cognitive Systems, ICIC 1996, Tehran, October 1996.
28. *Adaptive control of stable platforms using Neural Networks*, A. Khaki- Sedigh, H. Khaloozadeh, ICARCV 96, Fourth International Conference on control, Automation, Robotics and Vision, 3-6 December 1996, Singapore, Westin Stanford.
 29. *Uncertainty template generation in QFT using GA's*, M. Behbehani, A. Khaki- Sedigh, C. Lucas, ICEE 96, university of Tehran, May 13-16, 1996. (In Persian)
 30. *Decoupling and control of multivariable systems using Neural Networks*, A. Khaki- Sedigh, K. Family, C. Lucas, ICEE 96, May 13-16, 1996. (In Persian)
 31. *Design of robust SVC for improving dynamical behavior of induction motors using QFT and Kharitonov theory*, M. Abedi, A. Taher, A. Khaki- Sedigh, H. Seifi, ICEE 96, University of Tehran, May 13-16, 1996. (In Persian)
 32. *Design of robust controllers for compensating reactive power in industrial networks using LQG/LTR techniques*, A. Taher, H. Seifi, M. Abedi, A. Khaki- Sedigh, 11th International power system conference, Tehran, pp 308-317, Nov., 1996. (In Persian)
 33. *Design of robust controller using QFT for the control of the injection of anesthesia*, 8th Iranian conference on Biomedical Engineering, ICBME 96, Amirabir University of Technology, pp 151-158, Dec. 19-23, 1996. (In Persian)
 34. *Design and implementation of a predictive Fuzzy controller for an industrial furnace*, A. Khaki- Sedigh, N. Afshar, M. Afazelli, IFAC Symposium on AI in Real-time control, AIRTC 97, Malaysia, 1997. (In Persian)
 35. *Intelligent loopshaping in QFT*, A. Khaki- Sedigh, M. Behbehani, C. Lucas, ICEE 97, Sharif university of Technology, May 7-9, 1997. (In Persian)
 36. *Stabilization of on-off controllers using Fuzzy sets*, H. Momeni, G. Montazar, A. Khaki- Sedigh, ICEE 97, Sharif University of Technology, May 1-9, 1997. (In Persian)
 37. *Design of robust multivariable digital PID controllers using step- response matrices for a Drum- type 500 MW boiler*, R. Amjadi- Far, A. Khaki- Sedigh, 12th International power system conference, Tehran, 3-5 Nov., 1997. (In Persian)
 38. *H ∞ controller design for SVC in an industrial Power System*, M. Abedi, S.A. Taher, A. K. Sedigh, H. Seifi, ICEE 98, Tehran, Iran, May 1998.
 39. *Robust multivariable adaptive control in the presence of bounded disturbances and unmodelled dynamics*, A. Khaki- Sedigh, M. T. Khomiran, ICEE 98, Tehran, Iran, May 1998. (In Persian)
 40. *A new method for the design of robust relay controllers for robots*, H. Momeni, G. Montazar, A. Khaki- Sedigh, ICEE 98, Tehran, Iran, May 1998. (In Persian)
 41. *Design of an adaptive autopilot for a ground- to- air missile and the elimination of pressure sensor and rate gyro*, A. Khaki- Sedigh, S. K. H. Sani, ICEE 98, Tehran, Iran, May 1998. (In Persian)
 42. *Identification and adaptive control of induction motors using vector control and neural networks*, A. B. Khalili, A. Khaki- Sedigh, A. Afshar, ICEE 98, Tehran, Iran, May 1998. (In Persian)
 43. *Necessary and sufficient conditions for multivariable pole placement and entire eigenstructure assignment through output Feedback*, Y. B. Toosi, A. Khaki-Sedigh, The 3rd IMAC/IEEE Int. Conference, CSCC99, Greece, 1999.
 44. *Long term prediction of Tehran price index(TEPIX) using neural networks*, H. Khaloozadeh, A. Khaki- Sedigh, C. Lucas, Proceedings of the 2nd Irano-Armenian Workshop on Neural Networks, pp139,145,1999.
 45. *Output Feedback diagonal dominance via H ∞ theory*, A. Khaki- Sedigh, B. Labibi, ICEE99, Tehran, Iran, 1999.
 46. *H ∞ controller design for SVC to enhance the voltage profile in industrial networks*, A. Taher, A. Abedi, H. Seifi, A. Khaki- Sedigh, ICEE 99, Tehran, Iran, 1999.
 47. *Robust SVC design using QFT*, A. Taher, A. Abedi, H. Seifi, A. Khaki-Sedigh, ICEE 99, Tehran, Iran, May 1999. (In Persian)
 48. *Adaptive control of time delayed systems with variable delay*, A. Tehrani, A. Khaki- Sedigh, C. Lucas, ICEE 99, Tehran, Iran, May 1999. (In Persian)
 49. *Design of an adaptive multivariable autopilot for an anti-tank missile*, A. Baran-Zadeh, A. Khaki- Sedigh, ICEE 99, Tehran, Iran, May 1999. (In Persian)
 50. *Optimal control using measure theory*, A. Zareh, A. Khaki- Sedigh, First Conference on optimization and its applications, Mashad, Iran, 1999. (In Persian)
 51. *High Gain Decentralized Control of Large- Scale Systems*, Labibi, B., Lohmann, B., Khaki Sedigh, A. Jabedar Maralani, P. Proceedings of the IASTED Conference on Modeling, Identification and Control (MIC), Innsbruck 2000, pp. 105-108.
 52. *Decentralized Robust Control of Large- Scale Systems via Sensitivity Reduction to the Interactions*. Labibi, B., Lohmann, B., Khaki Sedigh, A. Jabedar Maralani, P. Accepted at IEEE American Control Conference 2000.
 53. *A New Sufficient Condition for Stability of Decentralised Control*, Labibi, B., Lohmann, B., Khaki Sedigh,

- A. Jabedar Maralani, P. Accepted at ICEE 2000 (Iran).
54. *Output Feedback Decentralized Control of Large- Scale Systems*, Khaki Sedigh, A., Jabedar Maralani, P., Lohmann, B., Labibi, B. Accepted at ICEE 2000 (Iran).
 55. *Genetic Methodology for Linear output Feedback Control Law Design*, Y. Bavafa, A. Khaki-Sedigh, Engineering Series, Signal Processing and Computer Science, World Scientific and Engineering Press, pp375-380, 2000.
 56. *Authoritative Seismic Excited Structural Control via Classical PID*, Y. Bavafa, A. Khaki-Sedigh, S. Ghasemzadeh, Signal Processing and Computer Science, World Scientific and Engineering Press, pp 370-373, 2000.
 57. *Robust Automotive Engine Speed Control: Tracking and Regulation via classical PID*, Y. Bavafa, A. Khaki-Sedigh, WAC, Intelligent Automation and Control, Vol. 9, TSI Press series, 2000.
 58. *Decentralized Robust Control of Large Scale Systems via Sensitivity Reduction to the Interactions*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. Jabbedar Maralani, ACC2000, Hyatt Regency Hotel, USA, June 28-30, 2000.
 59. *Reduction of Maximum Overshoot using Emotional Learning*, M. Fatourehchi, C. Lucas, A. Khaki-Sedigh, ICEE 2000, Isfahan, Iran, May 2000. (In Persian)
 60. **M. Fatourehchi, C. Lucas, A. Khaki-Sedigh, IASTED, Applied Simulation and Modelling, ASM 2001, Sept 4-7, Spain, 2001.**
 61. *Predictability and correlation and Correlation Analysis of the Dynamical behaviour of the Metrological Data*, A. Khaki-Sedigh, M. Zamanian, XIV International Conference on Systems Sciences, Wroclaw, Poland, Sept. 11-13, 2001.
 62. *An Agent Based Approach to Multivariable Control*, M. Fatourehchi, C. Lucas, and A. Khaki-Sedigh, IASTED International Conference on Artificial Intelligence and Applications, Marbella, Spain, pp 376-381, Sept 4-7, 2001.
 63. *Reduction of Control Effort using Emotional learning*, M. Fatourehchi, C. Lucas, A. Khaki-Sedigh, ICEE2001, PWIT, Tehran, Iran, May 2001. (In Persian)
 64. *Analysis of the Process of Generating of Share Prices in Tehran Stock Market*, H. Khaloozadeh, A. Khaki-Sedigh, C. Lucas, ICEE2001, PWIT, Tehran Iran, May 2001. (In Persian)
 65. *Predictability and Correlation Analysis of Weather Data*, A. Khaki-Sedigh, M. Zamanian, ICEE2001, PWIT, Tehran, Iran, May 2001. (In Persian)
 66. *Minimum Sensitivity in Linear Output Feedback Design*, Y. Bavafa-Toosi, A. Khaki-Sedigh, 5th World Automation Congress(WAC), USA, June 2002.
 67. *Stability is a Fuzzy Concept*, Y. Bavafa-Toosi, A. Khaki-Sedigh, 6th WSEAS CSCC, Crete, Greece, July 2002.
 68. *A Genetic Approach to the Design of linear Output Feedback Controllers*, Y. Bavafa-Toosi, A. Khaki-Sedigh, Invited Paper, SSGRR 2002s, L'Aquila, Rome, Italy, July 2002.
 69. *Decentralized Quantitative Feedback Design of Large Scale Systems*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. Jabbedar Maralani, IFAC 15th World Congress, BARCELONA, Spain, July 21-26, 2002.
 70. *Determining Embedding Dimension from Output Time Series of Dynamical systems: Scalar and Multiple output Cases*, M. Ataei, A. Khaki-Sedigh, B. Lohmann, C. Lucas, Second Int. Conf. On System Identification and Control Problems, Moscow, Russia, JAN 29-31, 2003.
 71. *Determination of Embedding dimension using multiple time series*, M. Ataei, A. Khaki-Sedigh, B. Lohmann, C. Lucas, 4th International Symposium On mathematical modeling, Vienna, 5-7 Feb. 2003.
 72. *Applying CBRL(Context Based Reinforcement Learning) to Multivariable Control of HVAC System*, F. Rashidi, C. Lucas, A. Khaki-Sedigh, International Conference on Intelligent Data Mining and Automated Learning, IDEAL 03, Hong Kong, March 2003.
 73. *Intelligent Control Based on Brain Emotional Learning Algorithm with Temporal Difference Learning and Context Study*, J. Abdi, F. Rashidi, C. Lucas, A. Khaki-Sedigh, D. Shahmirzadi, International Conference on Intelligent Data Mining and Automated Learning, IDEAL 03, Hong Kong, March 2003.
 74. *Solving Weighted Mixed Sensitivity H-inf Problem by Decentralized Output Feedback via Modifying Weighting Functions and using Descriptor System Representation*, B. Labibi, A. Khaki-Sedigh, P. Jabbedar Maralani, B. Lohmann, 4th IFAC Symposium on Robust Control Design, Milano, Italy, June 2003.
 75. *Estimating the Lyapunov Exponents of Chaotic Time Series Based on Polynomial Modelling*, M. Ataei, A. Khaki-Sedigh, B. Lohmann, 13th IFAC Symposium on System Identification, Rotterdam, Netherlands, August 2003.
 76. *Identification of the Dynamics of the Google's Ranking Algorithm*, A. Khaki-Sedigh, M. Roudaki, 13th IFAC Symposium on System Identification, Rotterdam, Netherlands, August 2003.
 77. *On the Predictability of Tehran Price Index (TEPIX)*, H. Khaloozadeh, A. Khaki-Sedigh, IEEE Conference on Control Applications, CCA2003, Turkey, June 23-25, 2003.

78. *Relative Gain Array Analysis of Uncertain Multivariable Plants*, A. Khaki-Sedigh, B. Moaveni, ECC2003, Cambridge, UK, Sep 2003.
79. *Solving Weighted Mixed Sensitivity H-infinity Problem by Decentralized Control Feedback*, B. Labibi, A. Khaki-Sedigh, P. Jabbedar Maralani, B. Lohmann, ECC2003, Cambridge, UK, Sep 2003.
80. *Estimating the Lyapunov Exponents of Chaotic Time Series: A Model Based Approach*, M. Ataei, A. Khaki-Sedigh, B. Lohmann, C. Lucas, ECC2003, Cambridge, UK, Sep 2003.
81. *Adaptive input-output pairing using on-line RGA identification*, A. Khaki-Sedigh, B. Moaveni, First African Control Conference, University of Cape Town, 3-5 December 2003.
82. *Automatic QFT controller design using LMI theory*, V. S. Bokharaie, A. Khaki-Sedigh, First African Control Conference, University of Cape Town, 3-5 December 2003.
83. *Chemical Data Fusion and X-Ray imaging in the Fruit Quality Control*, M. Seddighi Anaraki, A. Khaki-Sedigh, and B. Moshiri, The 2nd Iranian Conference on Machine Vision & Image Processing, K. N. Toosi University of Technology, Tehran, Feb 13-15, 2003. (In Persian)
84. *Design of Emotional Learning Controllers Based on Context Study for Multi-Objective Control systems*, F. Rashidi, C. Lucas, A. Khaki-Sedigh, ICEE2003, University of Shiraz, Iran, May 2003. (In Persian)
85. *QFT and EEAS Robust controller design using GA*, A. Khaki-Sedigh, M. Hadian, 5th Conference of Intelligent Systems, Ferdowsi University of Mashad, Iran, 14-16 October 2003. (In Persian)
86. *A New Method for Automatic QFT Loop-Shaping Using Genetic Algorithm and Linear Programming*, V. S. Bokharaei, A. Khaki-Sedigh, 5th Conference of Intelligent Systems, Ferdowsi University of Mashad, Iran, 14-16 October 2003. (In Persian)
87. *Reconfigurable Output Feedback Design using Eigenstructure Assignment*, A. Esna Ashari, A. Khaki-Sedigh, SICE2004, Japan, 2004.
88. *Relationship Between Inverse Optimality and Gain Margin Concepts*, A. Shahmansourian, B. Moshiri, A. Khaki-Sedigh, S. Mohammadi, Mechatronics and Robotics04, Aachen, Germany, Sept 13-15, 2004.
89. *Inverse Optimal Control Design using Quadratic Approximation of CLF*, A. Shahmansourian, A. Khaki-Sedigh, B. Moshiri, S. Mohammadi, Mechatronics and Robotics04, Aachen, Germany, Sept 13-15, 2004.
90. *Short-Term Prediction of Air Pollution using Multi-Layer Perceptron and Gamma Neural Networks*, M. A. Shoorehdeli, M. Teshnehlab, A. Khaki-Sedigh, CONTROL 2004, University of Bath, UK, Sept 6-9, 2004.
91. *Stabilization of Multivariable Time-Delayed Plants using Continuous Pole-Placement*, N. Vasegh, A. Khaki Sedigh, ICEE 2004, May 11-13, 2004. (In Persian)
92. *A Novel Design Approach for Tracking Error Specifications in SISO-QFT: A Minimum Phase Case*, S. M. Mahdi Alavi, A. Khaki-Sedigh, and B. Labibi, MED'04, 2004.
93. *A New Algorithm in Satellite Attitude Determination*, M. Nasirean, H. Bolandi, A. Khaki-Sedigh, and A. R. Khogar, 5th IAA Symposium on Small Satellites for Earth Observation, Berlin, Germany, April 4-8, 2005.
94. *Decentralized Controller Design In MIMO-QFT for Tracking Error Specifications*, S. M. Mahdi Alavi, A. Khaki-Sedigh, and B. Labibi, The 1st International Conference on Control and Optimization with Industrial Applications, Baku, Azerbaijan, May 22-25, 2005.
95. *Modification of the Guidance system of a Typical Missile by the Multiple Model Method*, A. Vahabian Tehrani, A. Khaki-Sedigh, ICEE2005, May 10-12, University of Zanjan, 2005 (In Persian)
96. *A New Method in Reconfigurable Controller Design Using Eigenstructure Assignment*, A. Esna Ashari, A. Khaki-Sedigh, ICEE2005, May 10-12, University of Zanjan, 2005 (In Persian)
97. *Nonlinear Optimization Using Particle Filters in GPS/INS Under Critical Situations*, A. Asadi, B. Moshiri, and A. Khaki-Sedigh, ICEE2005, May 10-12, University of Zanjan, 2005 (In Persian)
98. *Optimal Design of Robust Adaptive Controllers: A QFT-EEAS based approach using Random Optimization Techniques*, A. Khaki Sedigh, O. Namaki-Shoushtari, and B. N. Araabi, Proc. 5th International Conference on Control and Automation, Hungary, June 2005.
99. *Reconfigurable Sliding-Mode Control Design Using Genetic Algorithms and Eigenstructure Assignment*, A. Esna Ashari, M. J. Yazdanpanah, and A. Khaki Sedigh, Proc. 5th International Conference on Control and Automation, Hungary, June 2005.
100. *Output Feedback Reconfigurable Controller Design Using Eigenstructure Assignment: Post-Fault Order Change*, A. Esna Ashari, and M. J. Yazdanpanah, A. Khaki Sedigh, Proc. 5th International Conference on Control and Automation, Hungary, June 2005.
101. *Adaptive Control of Chaos in Nonlinear Discrete-Time Systems Using Time-Delayed State Feedback*, A. Yazdanpanah, A. Khaki-Sedigh, International Conference PhysCon 2005, Saint Petersburg, RUSSIA, August 24-26, 2005.
102. *Adaptive Control of Chaos in Nonlinear Chaotic Discrete-Time Systems*, A. Yazdanpanah, A. Khaki-Sedigh, A. Yazdanpanah, International Conference PhysCon 2005, Saint Petersburg, RUSSIA, August 24-26, 2005.
103. *Pre-Filter Design for Tracking Error Specifications in MIMO-QFT*, S.M. Mahdi Alavi, Ali Khaki-Sedigh, and Batool Labibi, CDC-ECC, Spain, 2005.

104. *Design of a Novel Sattelite Attitude Determination Algorithm*, M. Nasirian, H. Bolandi, A. Khaki-Sedigh, and R. Khoghar, International Conference on Engineering Education, Siliesian University of Technology, Poland, July 25-29, 2005.
105. *Design of Satellite Attitude Control Simulator*, M. Nasirian, H. Bolandi, A. Khaki-Sedigh, and A. R. Khoogar, 1st International Symposium on Systems and Control in Aerospace and Astronautics, Jan 19-21, Harbin, China, 2006.
106. *Predictive Control of Earth Station Antenna with Friction Compensation*, I. Mohammadzaman, A. Khaki-Sedigh, and M. Nasirian, ICMA2006, IEEE International Conference on Mechatronics and Automation, Luoyang, Henan, China, June 25-28, 2006.
107. *Predictive Control of Non-minimum Phase Motor with Backlash in an Earth Station Antenna*, I. Mohammadzaman, A. Khaki-Sedigh, and M. Nasirian, The 25th Chinese Control Conference, Harbin, China, August 7-11, 2006.
108. *Predictive Control of Earth Station Antenna with Backlash Compensation*, I. Mohammadzaman, A. Khaki-Sedigh, and M. Nasirian, IEEE International Conference on Control Applications, IEEE International Symposium on Computer Aided Control Systems Design, IEEE International Symposium on Intelligent Control, Munich, Germany, October 4-6, 2006.
109. *A Novel Design Approach for Multivariable Quantitative Feedback Design with Tracking Error Specifications*, S M M Alavi, A. Khaki-Sedigh, B. Labibi, International Control Conference 2006, Glasgow, UK, 30th Aug to 1st Sep, 2006.
110. *On-Line Input/Output Pairing for Linear and Nonlinear Multivariable Plants using Neural Networks* M. Moaveni, A. Khaki-Sedigh, International Control Conference 2006, Glasgow, UK, 30th Aug to 1st Sep, 2006.
111. *An LMI Approach to Automatic Loop-Shaping of QFT Controllers*, V S Bokharaie, A. Khaki-Sedigh, International Control Conference 2006, Glasgow, UK, 30th Aug to 1st Sep, 2006.
112. *A New Input-Output Pairing Analysis of the Quadruple-Tank*, B. Moaveni, A. Khaki-Sedigh, ICEE2006, Amir Kabir University, 2006.
113. *Three Dimensional Adaptive Guidance*, A. Moharam Pour, J. Poshtan, and A. Khaki-Sedigh, 6th Conference of Iranian Aerospace Society, K. N. Toosi University of Technology, Tehran, Iran, Feb 24-25, 2007.
114. *Stability Analysis of Gain Scheduling Missile Guidance using Root-Locus and Kharitanov Methods*, A. Mohammadi Nejad Rashti, A. Khaki-Sedigh, J. Roshanian, M. Sherbafi, and A. Mehrabian, 6th Conference of Iranian Aerospace Society, K. N. Toosi University of Technology, Tehran, Iran, Feb 24-25, 2007.
115. *Modeling and Analysis of Free Gyros using Linear Systems Analysis*, A. Arvan, J. Nobari, and A. Khaki-Sedigh, 6th Conference of Iranian Aerospace Society, K. N. Toosi University of Technology, Tehran, Iran, Feb 24-25, 2007.
116. *Simulation of Bending Vibration Effects on Attitude Control of a Flexible Launch Vehicle*, J. Roshanian, A. Khaki-Sedigh, A. Khoshnood, IASTED Asian Conference, Modelling, Simulation, Beijing, China, October 8-10, 2007.
117. *A QFT/EEAS Design of Multivariable Robust Adaptive Controllers*, O. Namaki Shoushtari, A. Khaki-Sedigh, and B. N. Araabi, Proceedings of the IFAC 17th World Congress, Korea, July 6-11, 2008.
118. *Disturbance Rejection in Neural Network Model Predictive Control*, A. Jazayeri, A. Fatehi, H. Sajjadian, and A. Khaki-Sedigh, Proceedings of the IFAC 17th World Congress, Korea, July 6-11, 2008.
119. *Stable Learning Approaches for ANFIS as an Identifier*, A. Aliyari, M. Teshnehlab, and A. Khaki-Sedigh, Proceedings of the IFAC 17th World Congress, Korea, July 6-11, 2008.
120. *Delayed Feedback Control of Delayed Chaotic Systems: Numerical Analysis of Bifurcation*, N. Vasegh, A. Khaki. Sedigh, ENOC, St. Petersburg, Russia, 2008.
121. *A Disturbance Rejection Supervisor in Multiple-Model Based Control*, E. Peymani Foroushani, A. Fatehi, and A. Khaki Sedigh, International Control Conference 2008, Manchester, UK, Sep 2008.
122. *Automatic Learning in Multiple Model Adaptive Control*, E. Peymani Foroushani, A. Fatehi, and A. Khaki Sedigh, International Control Conference 2008, Manchester, UK, Sep 2008.
123. *Low Complexity Control of Hybrid Systems with Application to Control of Step-down DC-DC Converters*, J. Habibi, B. Moshiri, and A. Khaki Sedigh, International Control Conference 2008, Manchester, UK, Sep 2008.
124. *Improved FOPDT model estimation with Delayed-relay feedback for constant time dominant processes*, Z. Tehrani Zamani, B. Moshiri, A. Khaki Sedigh, and A. Fatehi, International Control Conference 2008, Manchester, UK, Sep 2008.
125. *Relay feedback based monitoring and autotuning of processes with gain nonlinearity*, Z. Tehrani Zamani, B. Moshiri, A. Khaki Sedigh, and A. Fatehi, International Control Conference 2008, Manchester, UK, Sep 2008.

126. *A New Approach to Input-Output Pairing Analysis for Uncertain Multivariable Plants*, B. Moaveni and A. Khaki Sedigh, International Control Conference 2008, Manchester, UK, Sep 2008.
127. *Neural Predictive Control for Wide Range of Process Systems*, S. A. Jazayeri Moghadas, A. Fatehi, H. Sadjadian, A. Khaki-Sedigh, International Control Conference 2008, Manchester, UK, Sep 2008.
128. *Suboptimal control of hybrid systems using approximate multi-parametric MILP*, Habibi, J., A. Khaki Sedigh, CDC 2008, 47th IEEE Conference on Decision and Control, pp 2129-2134, 9-11 Dec. 2008.
129. *Generalized Predictive Control of a Multivariable pH Neutralization Process Using Independent Model Approach*, P. Bagheri, A. Khaki-Sedigh, and B. A. Neshastehriz, Proceedings of 2009 CACS International Automatic Control Conference, National Taipei University of Technology, Taiwan, Nov. 27-29, 2009.
130. *Study of Multiple Model Predictive Controllers on a pH Neutralization Plant*, A. Shamsoddinlou, A. Fatehi, A. Khaki-Sedigh, Proceedings of 2009 CACS International Automatic Control Conference, National Taipei University of Technology, Taiwan, Nov. 27-29, 2009.
131. *Active Vibration Control using Switching Based Multi Objective Control*, L. Soltanian, A. Khaki-Sedigh, O. Namaki-Shoushtarim, Proceedings of 2009 CACS International Automatic Control Conference, National Taipei University of Technology, Taiwan, Nov. 27-29, 2009.
132. *Enhancement of Multi Objective Control Performance via Switching*, L. Soltanian, A. Khaki-Sedigh, O. Namaki-Shoushtarim, CCDC2009, China, 2009.
133. *Multi Objective Control of an Active Vibration System via Switching*, L. Soltanian, A. Khaki-Sedigh, O. Namaki-Shoushtarim, The 7th International Conference on Control & Automation, New Zealand, Dec. 9-11, 2009.
134. *Delayed feedback control of delayed chaotic systems*, N. Vasegh, A. Khaki Sedigh, PHYSCON, 4th International Scientific Conference on Physics and Control, Italy, Sep 1-4 2009.
135. *Design of Decentralized Supervisory Based Switching QFT Controller for Uncertain Multivariable Plants*, O. Namaki-Shoushtari, A. Khaki Sedigh, Joint 48th IEEE Conference on Decision and Control and 28th Chinese Control Conference, Shanghai, P.R. China, December 16-18, 2009.
136. *Control Loop performance Diagnosis Based on The Dempster Shafer Theory*, M. Kharaziha, A. Khaki Sedigh, B. Moshiri, 24th Symposium of Malaysian Chemical Engineers /1st International Conference on Process Engineering and Advanced Materials, KL, Malaysia, 2010.
137. *A New Method to Obtain Maximum Power from a Dual Induction Generator using Sliding Mode Controllers*, S. Roozdehiani, A. Towhidi, A. Khaki-Sedigh, K. Abbas-Zadeh, 25th Int. Power Conference, Tehran, Iran, 2010.
138. *Neural Network Model-Based Predictive Control for Multivariable Nonlinear Systems*, Bahareh Vatankeh Alamdari, Alireza Fatehi, and Ali Khaki-Sedigh, 2010 IEEE International Conference on Control Applications, Part of 2010 IEEE Multi-Conference on Systems and Control, Yokohama, Japan, September 8-10, 2010.
139. *An Analysis of Variance Approach to Tuning of Generalized Predictive Controllers for Second Order plus Dead Time Models*, A. R. Neshastehriz, A. Khaki-Sedigh, and H. Sadjadian, 2010 8th IEEE International Conference on Control and Automation, Xiamen, China, June 9-11, 2010.
140. *Input-output Pairing Based on the Control Performance Assessment Index*, S. Choobkar, A. Khaki Sedigh, A. Fatehi, IEEE, 978-1-4244-5848-6/10, pp 492-496, 2010.
141. *Neural network model-based predictive control for multivariable nonlinear systems*, Alamdari, B.V. , Fatehi, A., Khaki-Sedigh, A., Proceedings of the IEEE International Conference on Control Applications, Japan, Article number 5611265, Pages 920-925, 2010.
142. *Design of Supervisory Based Switching QFT Controllers for Improved Closed Loop Performance*, O. Namaki-Shoushtari, A. Khaki-Sedigh, ICEE2010, May 11-13, 978-1-4244-6760-0/10, Isfahan, Iran, 2010.
143. *Traffic state variables estimating and predicting with extended Kalman filtering*, J. Abdi, , B. Moshiri, E. Jafari, A. Khaki Sedigh, International Conference on Power, Control and Embedded Systems, ICPCES 2010; Allahabad; 28 November 2010 through 1 December 2010; Category number CFP1009L-ART; Code 83832, 2010.
144. *Comparison of RBF and MLP neural networks in short-term traffic flow forecasting*, J. Abdi, , B. Moshiri, A. Khaki Sedigh, International Conference on Power, Control and Embedded Systems, ICPCES 2010; Allahabad; 28 November 2010 through 1 December 2010; Category number CFP1009L-ART; Code 83832, 2010.
145. *Optimal Control of Ride Comfort of a Passenger Car: Comparison between the Hydro Active and the Fully Active Suspension Systems*, E. Sarshari, A. Khaki Sedigh, H. Sadati, SAE International, DOI: 10.4271/2010-01-1913, 2010.
146. *Traffic state variables estimating and predicting with neural network via extended Kalman filter algorithm with estimated parameters as offline*, 8th IEEE International Symposium on Intelligent Systems and Informatics, SIISY 2010; Subotica; 10 September 2010 through 11 September 2010; Category number 10EX4484; Code 83090, 2010.

147. *Robust Control of a pH Neutralization Process Plant Using QFT*, R. Shabani, A. Khaki Sedigh, and K. Salahshoor, International Conference on Control, Automation and Systems 2010, KINTEX, Gyeonggi-do, Korea, Oct. 27-30, 2010.
148. *A Hybrid EKF-Fuzzy Approach to Fault Detection and Isolation of Industrial Gas Turbines*, A. Salar, A. Khaki Sedigh, S M. Hosseini, H. Khaledi, ASME Turbo Expo 2011 GT2011, June 6-10, 2011, Vancouver, British Columbia, Canada.
149. *Robust Gas Turbine Speed Control Using QFT*, Z. Abollahi Biron, A. Khaki Sedigh, R. Abdollah Biron, ASME Turbo Expo 2011 GT2011, June 6-10, 2011, Vancouver, British Columbia, Canada.
150. *Design of Switching Control Systems Using Control Performance Assessment Index*, A. Moridi, S. Armaghan, A. Khaki Sedigh and S. Choobkar, Proceedings of the World Congress on Engineering 2011 Vol II, WCE 2011, July 6 - 8, 2011, London, U.K.
151. *Design of a Switching PID Controller for a Magnetically Actuated Mass Spring Damper*, A. Moridi, S. Armaghan, A. Khaki Sedigh, Proceedings of the World Congress on Engineering 2011 Vol III, WCE 2011, July 6 - 8, 2011, London, U.K.
152. *Tuning of Dynamic Matrix Controller for FOPDT Models using Analysis of Variance*, P. Bagheri, A. Khaki-Sedigh, 18th IFAC World Congress Milano (Italy) August 28 - September 2, 2011.
153. *A Switched Based Control Strategy for Target Tracking of Autonomous Robotic Vehicles using Range-only Measurements*, O. Namaki-Shoushtari, A. Pedro Aguiar, A. Khaki Sedigh, 18th IFAC World Congress Milano (Italy) August 28 - September 2, 2011.
154. *A Decomposition Procedure to Linearize the Nonaffine State Space Average Model of STATCOM*, M. Moradpour, M. Tavakoli Bina, A. Khaki Sedigh, M. Ayati, IEEE Symposium on Industrial Electronics and Applications (ISIEA2011), Langkawi, Malaysia, September 25-28, 2011.