

RESUME

Ali Khaki-Sedigh

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Education

1. B. Sc., Single Honors Mathematics, University of Newcastle Upon Tyne, England, 1983.
 2. M. Sc., Control System, UMIST, England, 1985.
 3. Ph. D., Control Engineering, University of Salford, England, 1988.
- M. Sc. Dissertation: *Analytical Evaluation of Diesel Engines Transfer Functions*
Supervisor: Prof. D. E. Winterbone
 - Ph. D. Dissertation: *Design of Robust Tunable and Adaptive Digital Set-Point Tracking Controllers for Linear Multivariable Plants*
Supervisor: Prof. B. Porter

Professional Experience

1. Academic Positions:
 - 1.1 Professor in the Department of Electrical and Computer Engineering, K. N. Toosi University of Technology, Tehran, Iran.
 - 1.2 Member of organizing committee of the first and second Conference of Electrical Engineering, K.N. Toosi University of Technology.
 - 1.3 Head of Control group 1992- 1994.
 - 1.4 Head of postgraduate studies, 1993- 1998.
 - 1.5 Head of Electrical Engineering Department 1990-1992 and 1998-1999.
 - 1.6 Chairman of the scientific committee of the 2nd International conference on Government, Industry and University for National development, May 2000.
 - 1.7 Visiting Professor in the University of Bremen, Germany, June-July 2000.
 - 1.8 Head of Control Group, Nov. 2000-2003.
 - 1.9 Visiting Professor in the University of Bremen, Germany, July-

August 2002.

- 1.10 Chairman of the scientific committee of the 2nd Conference on Machine Vision, Image Processing, K. N. Toosi University of Technology, Feb 2003.
- 1.11 Member of the International Scientific Committee of CONTROL 2006 Conference held in University of Glasgow, UK.
- 1.12 President of the K. N. Toosi University of Technology, From August 2003 for a duration of 4 years.
- 1.13 Member of the International Scientific Committee of CONTROL 2008 Conference held in University of Manchester, UK.
- 1.14 Member of the Scientific Committee of the Annual International Conference on Automotive Electronics Industry, University of Tehran and Iran Khodro, 2008.
- 1.15 President of the K. N. Toosi University of Technology, From 2013.

2. Teaching Experience:

Undergraduate	Linear Control Systems, Modern Control Systems, Engineering Mathematics
Postgraduate	Digital Control Systems, Multivariable Control, Optimal Control, Advanced Engineering Mathematics, Adaptive Control, Robust Control

3. Industrial Experience:

- 3.1 Supervisor of a research group working on Inertial Navigation Systems (INS), 1990-1995.
- 3.2 Collaborating with the Control Division of Electrical Power Research Center (EPRC) Ministry of Energy, 1989-1990.
- 3.3 Organizing a Course on Advanced Control Systems for Practical Engineers, EPRC 1989.
- 3.4 Supervisor of a research group working on the control of a 3-degrees of freedom turn table, 1993-1994.
- 3.5 Supervisor of a research group working on the adaptive temperature control in heating systems 1994-1996.
- 3.6 Supervisor of a research group working on the robust speed control for induction motors 1995-97.
- 3.7 Co-supervisor of a research group working on weather prediction for Tehran Metrological Center, 1997-1999.
- 3.8 Supervisor of a research group working on the prediction of share prices in Tehran Stock Market (1999-2000)
- 3.9 Supervising a research project on the determination of the status of modern control theories and applications with emphasis on control applications in Iran. This project was funded by the Iranian Ministry of Industry from 2001-2002.
- 3.10 Conducting a research project on the History of Control Engineering. This project was funded by the K. N. T. University of Technology from 2001-2002.
- 3.11 Supervising a research project on general purpose adaptive controllers. This project was funded by the Iranian Ministry of Industry from 2006-2008.

3.12 Supervising a research project on fault diagnosis in turbines. This project was funded by the Gas and energy departments from 2010-2014.

4. Postgraduate Thesis Supervision:

Supervised and co-supervised up to 197 Master Dissertations and 24 PhD Thesis.

Current Research Interests

Robust multivariable and Adaptive Control Theory, Intelligent Control (Genetic Design and Neural Networks), Industrial applications, Predictability and prediction of system's behavior, History of Control. Research and Engineering Ethics.

Publications

Journal Publications

1. *Singular perturbation analysis of the step response matrices of a class of linear multivariable systems*, B. Porter, A. Khaki- Sedigh, International Journal of Systems Science, No. 2, pp 205- 211, 1987.
2. *Design of robust adaptive digital set point tracking PID controllers incorporating recursive step response matrix identifiers for gas turbines*, B. Porter, A. Khaki- Sedigh, Transactions of the Institute of the Measurement and Control, Vol. 10, pp 9-14, 1988.
3. *Robustness of tunable digital set point tracking PID controllers for linear multivariable plants*, B. Porter, A. Khaki- Sedigh, International Journal of Control, Vol. 49, No. 3, pp 777- 789, 1989.
4. *Design of tunable digital set point tracking controllers for linear multivariable type-one plants*, B. Porter, A. Khaki- Sedigh, International Journal of Systems Science, 1990, Vol. 21, No. 3, pp 447- 461.
5. *On-line identification of the first-Markov parameter of linear multivariable plants*, A. Khaki- Sedigh, J. Kamali, Journal of Engineering, Vol. 7, No. 4, pp 225- 227, 1994.
6. *Input-Output pairing using balanced realizations*, A. Khaki- Sedigh, M. Shahmansorian, Electronic Letters, Vol. 32, No. 21, pp 2027-2028, 1996.
7. *On the predictability of Tehran's share prices*, H. Khaloozadeh, A. Khaki- Sedigh, C. Lucas, Financial Research Journal, University of Tehran, Vol. 11-12, Summer- Fall 1996. (In Persian)
8. *Autopilot design for a ground-to- ground missile using multivariable time- varying models*, A. Khaki- Sedigh, M. Rashtian, Bavar Journal of Engineering, No. 4, pp 11-20, Summer 1997. (In Persian)
9. *Robust controller design for SVC to improve the dynamic behavior of 3-phase induction motors in the start- up period*, A. Taher, A. Abedi, H. Seifi, A. Khaki- Sedigh, Amirkabir Research Journal, Vol. 9, No. 35, Summer- Fall, 1997. (In Persian)
10. *Robust on-off control*, H. Momeni, G. Montazar, A. Khaki- Sedigh, Daneshvar Research Journal, Winter 1997. (In Persian)
11. *Overdesigns resulting from control-model ratio in QFT*, A. Khaki- Sedigh, A. Khayatian, Mashas University Research Journal, Vol. 10., No. 1, 1998. (In Persian)
12. *Robust reactive power compensation using H_∞ control theory*, Esteghlal Journal, Esfahan University of Technology, Vol. 17, No. 2, 1998. (In Persian)
13. *Modelling and prediction of share prices dynamics in Tehran's stock exchange*, H. Khaloozadeh, A. Khaki- Sedigh, Modaress Research Journal, Tarbiat Moddaress University, Vol. 21, No. 6. 1998. (In Persian)
14. *Controller design using mu-synthesis for static VAR compensator to enhance the voltage profile for remote induction motorloads*, M. Abedi, S. A. Taher, A. Khaki-Sedigh, H. Seifi, Electric Power

- Systems Research, 46, pp 35-43, 1998.
15. *Gyrocompassing in INS with stable platform using Neural Networks*, H. Valipoor, A. Khaki- Sedigh, Engineering Faculty Research Journal. University of Tehran, Fall 1999. (In Persian)
 16. *On the predictability of price fluctuations in Tehran stock Exchange: A correlation dimension estimation approach*, H. Khaloozadeh, A. Khaki- Sedigh, C. Lucas, Esteghlal Journal of Engineering, Esfehan University of Technology, Vol. 18, No. 1, Sep 1999. (In Persian)
 17. *Optimal design of robust QFT controllers using random optimization techniques*, A. Khaki- Sedigh, C. Lucas, International Journal of Systems Sciences, Vol. 31, NO. 8, pp 1043-1052, Aug 2000.
 18. *Sufficient condition for the stability of decenarlisied control*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. J. Maralani, Electronic Letters, Vol. 36, No. 6, pp 588-589, March 2000.
 19. *Determination of relay switching time, evaluation of disturbance and noise affect and transient behavior in robust binary control*, H. Momeni, G. Montazar, A. Khaki- Sedigh, Esteghlal Journal of Engineering, Esfehan University of Technology, Vol. 18, No. 2, March 2000. (In Persian)
 20. *Leveling and Gyrocompassing of Stable platforms using Neural Networks*, A. Khaki-Sedigh, M. Nasiri Sarvi, Iranian Journal of Science and Technology, Transaction B, Vol. 25, No. B3, pp 475-482, 2001.
 21. *Design of Decentralized High-Gain Error-Actuated Controllers for Large Scale Systems*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. J. Maralani, International Journal of Modeling and Simulations, Vol. 21, No. 4, pp 282-287, 2001.
 22. *Design of Static Linear Multivariable Output Feedback Controllers using Random Optimization Techniques*, A. Khaki-Sedigh, Y. Bavafa-Toosi, Journal of Intelligent and Fuzzy Systems, Vol. 10, pp185-195, 2001.
 23. *Servo Control in the Quantitative Feedback Theory*, F. Esmaeel Azar, A. Khaki-Sedigh, Scientific Quaterly Journal of Science and Engineering, Islamic Azad University, Vol. 1, No. 1, Winter 2001. (In Persian)
 24. *Output Feedback Decentralized Control of Large Scale Systems using Weighted Sensivity Functions Minimizations*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. Jabedar Maralani, Systems and Control Letters, 47, pp 191-198, 2002.
 25. *Application of Measure Theory in The Design of Multivariable PID Controllers*, A. Zarre, A. Vahidian Kamyad, A. Khaki-Sedigh, Int. J. of Engineering Sciences, Vol. 13, No. 1, pp 162-176, 2002. (In Persian)
 26. *A Novel Method for the Decentralized Robust Stabilization of Large scale Systems*, B. Labibi, Y. Bavafa Toosi, A. Khaki-Sedigh, B. Lohmann, To be published by the Journal of Intelligent Automation and Soft Computing, Special Issue on Developments in Intelligent Adaptive and Robust Techniques for Automation and control Systems, 2003.
 27. *Emotional Learning as a New Tool for Development of Agent-based Systems*, M. Fatourechi, C. Lucas, A. Khaki-Sedigh, Informatica, Vol. 27, No. 2, 2003.
 28. *Robust decentralized stabilization of large scale systems via eigenstructure assignment*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. Jabedar Maralani, International Journal of Systems Sciences, 2003.
 29. *Robust decentralized control of large scale systems via H-infinity theory and using descriptor system representation*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. Jabedar Maralani, International Journal of Systems Sciences, 2003.
 30. *Decentralized Stabilization of Large Scale Systems via State-Feedback and using Descriptor Systems*, B. Labibi, B. Lohmann, A. Khaki-Sedigh, P. Jabedar Maralani, IEE Transactions on Systems, Man, and Cybernatics- Part A: Systems and Humans, Vol. 33, No. 6, pp 771- 776, November 2003.
 31. *Robust Tracking by Using Measure Theory*, A. Zarea, A. Khaki-sedigh, A. Vahidian Kamyad, Iranian Journal of Electrical and Computer Engineering, Vol. 2, No. 1, Spring-Summer 2003.
 32. *Model Based Method for Determining the Minimum Embedding Dimension from Chaotic Time Series-Univariate and Multivariate Cases*, M. Ataei, B. Lohmann, A. Khaki-Sedigh, C. Lucas, Nonlinear Phenomena in Complex Systems, Vol. 6:4, pp 842-851, 2004.
 33. *Adaptive calculation of Lyapunov exponents from time series observations of chaotic time varying dynamical systems*, A. Khaki-Sedigh, M. Ataei, B. Lohmann, C. Lucas, Nonlinear Dynamics and System Theory, An International Journal of Research and Surveys, Vol. 4, No.2, pp145-159, 2004.
 34. *Design of bearing only vision based tracking filters*, H. Ferdowsi, P. Jabbedar Maralani, A. Khaki Sedigh, Journal of Optical Engineering, Vol. 43, No. 2, Feb 2004.

35. *Reconfigurable control system design using eigenstructure assignment: static, dynamic and robust approaches*, A. Esna Ashari, A. Khaki-sedigh, M. J. Yazdanpanah, International Journal of Control, Vol. 78, No. 13/ 10, Sept 2005.
36. *Observer based design of set-point tracking Adaptive Controllers for Nonlinear Chaotic Plants*, A. Khaki Sedigh, M. Yazdanpanah, Chaos solitons and Fractals, The Interdisciplinary Journal of Nonlinear Science Nano and Quantum Technology, 2005.
37. *Stock Price Modelling and Forecasting using Stochastic Differential Equations*, H. Khaloozadeh, A. Khaki-Sedigh, Tahgigat-E-Eghtesadi, University of Tehran, No. 69, pp 1-26, Summer 2005. (In Persian)
38. *Analysis of Gain Margin and Performance of Inverse Optimal Controllers*, A. Shahmansoorian, A. Khaki Sedigh, B. Moshiri, S. Mohammadi, Mediterranean Journal of Measurement and Control, Volume 1, No. 4, October 2005.
39. *Advanced HSVC tuning in multi-machine power systems for loadability improvements*, A. Akbari, H. Seifi, A. Khaki Sedigh, Electric Power Components and Systems, Vol. 34, No. 6, June 2006.
40. *Functional controllability of nonlinear systems by using measure theory*, A. Zare, A. Khaki Sedigh, A. Vahidian Kamyad, Journal of Technical Engineering, Islamic Azad University of Mashhad, Vol 1, Number 1, Summer 2006.
41. *Observer-based design of set-point tracking adaptive controllers for nonlinear chaotic systems*, A. Khaki Sedigh, Y. Yazdanpanah, Chaos, Solitons & Fractals, September 2006, Pages 1063-1072
42. *A Satellite Simulator for Photography and Characteristic Determination*, M. Nasirian, H. Bolandi, A. Khaki-Sedigh, A. R. Khogar, Asian Journal of Geoinformatics, Vol. 7, No. 1, January 2007.
43. *Reconfigurable Controller Design for Linear Multivariable Plants*, M. Moaveni, A. Khaki-Sedigh, International Journal of Modelling, Identification, and Control, Vol. 2, No. 2, pp 138-146, 2007.
44. *Improved Multivariable Quantitative Feedback Design for Tracking Error Specifications*, S. M. Mahdi Alavi, A. Khaki-Sedigh, B. Labibi, and M. J. Hayes, IET Control Theory Appl, Vol. 1, No. 4, pp 1046-1053, July 2007.
45. *Power System Voltage Stability enhancement by High Side Voltage Control*, A. Akbari, H. Seifi, A. Khaki-Sedigh, Modarres Technical and Engineering Scientific Research Journal, No. 26, pp 45-58, Winter 2007.
46. *Chaos Control in Delayed Chaotic Systems via Sliding Mode Based Delayed Feedback*, N. Vasegh, A. Khaki-Sedigh, Chaos, Solitons and Fractals, Vol. 40, Issue 1, pp 159-165, N. Vasegh, A. Khaki Sedigh, 15 April 2009 .
47. *A New Stabilizing Control Law with Respect to a Control Lyapunov Function and Construction of Control Lyapunov Function for Particular NonAffine Nonlinear Systems*, A. Shamansourian, B. Moshiri, A. Khaki-Sedigh, and S. Mohamadi, Journal of Dynamical and Control Systems, Vol. 13, No. 4, pp 563-576, October 2007.
48. *Further Theoretical Results on "Relative Gain Array for Norm-Bounded Uncertain Systems"*, B. Moaveni, A. Khaki-Sedigh, Ind. Eng. Chem. Research, Vol. 46, pp 8288-8289, 2007.
49. *Input-Output Pairing for Nonlinear Systems*, B. Moaveni, A. Khaki-Sedigh, Journal of Applied Sciences, Vol. 7, No. 22, pp 3492-3498, 2007.
50. *A New Approach to Compute the Cross-Grammian Matrix and its Application Input-Output Pairing for Linear Multivariable Plants*, B. Moaveni, A. Khaki-Sedigh, Journal of Applied Sciences, Vol. 8, No. 4, pp 608-614, 2008.
51. *Model Reference Adaptive Control for a Flexible Launch Vehicle*, A. Khoshnoos, J. Roshanian, and A. Khaki-Sedigh, Proc. IMech E, Vol. 22, Part I: J. of Systems and Control Engineering, pp 49-55, 2008.
52. *Adaptive Control of Nonlinear in Parameters Chaotic Systems*, M. Ayati, A. Khaki-Sedigh, Nonlinear Dynamics and Systems Theory, Vol. 8, No. 2, pp123-135, 2008.
53. *Contractive Predictive Control of Mixed Logical Dynamical Hybrid Systems*, J. Habibi, B. Moshiri, A. Khaki Sedigh, Int. J. of innovative Computing, Information and Control, Vol. 4, No. 6, pp 1283-1297, June 2008.
54. *Delayed Feedback Control of Time Delayed: Analytic Approach at Hopf Bifurcation*, N. Vasegh, A. Khaki-Sedigh, Physic Letter A, 372, pp5110-5114, 2008.
55. *A Modified Proportional Navigation Guidance for Range Estimation*, A. Moharampour, J. Poshtan, A. Khaki-Sedigh, Iranian Journal of Electrical and Electronic Engineering, vol. 4, No. 3, pp 115-120, 2008.

56. *Input-Output Pairing Analysis for Uncertain Multivariable Processes*, B. Moaveni, A. Khaki-Sedigh, *J. of Process Control*, vol. 18, pp527-532, 2008.
57. *Short Term Prediction of Air Pollution using MLP, Gamma, ANFIS, and Mixed Training Based Methods*, M. Aliyari, M. Teshnelab, A. Khaki Sedigh, *Journal of Control*, Vol. 2, no. 1, Fall 2008.
58. *Chaos Control via TDFC in Time-Delayed Systems: The Harmonic Balance Approach*, N. Vasegh, A. Khaki-Sedigh, *Physic Letter A*, 373, pp354-358, 2009.
59. *Training ANFIS as an Identifier with Intelligent Hybrid Stable Learning Based Algorithm Based on Particle Swarm Optimization and Extended Kalman Filter*, M. Aliyari, M. Teshnelab, and A. Khaki Sedigh, *Fuzzy Sets and Systems*, vol. 160, Issue 7, pp922-948, 2009.
60. *Identification using ANFIS with Intelligent Hybrid Stable Learning Approaches and Stability Analysis of Training Methods*, M. Aliyari, M. Teshnelab, and A. Khaki Sedigh, *Applied Soft Computing*, vol. 9, Issue 2, pp 833-850, 2009.
61. *Identification using ANFIS with Intelligent Hybrid Stable Learning Approaches*, M. Aliyari, M. Teshnelab, and A. Khaki Sedigh, *Neural Computing and Applications*, Vol 18, no. 2, pp 157-174 Feb 2009.
62. *Chaos Control in Delayed Chaotic Systems via Sliding Model Based Delayed Feedback*, N. Vasegh, A. Khaki-Sedigh, *Chaos, Solitons and Fractals*, 40, pp159-165, 2009.
63. *Optimal control of a nonlinear fed-batch fermentation process using model predictive approach*, A. Ashoori, B. Moshiri, A. Khaki-Sedigh, M. R. Bakhtiari *Journal of Process Control*, Vol. 19, Issue 7, pp 1162-1173, 2009.
64. *Adaptive Control of Nonlinear in Parameters chaotic Systems via Lyapunov Exponents Placement*, M. Ayati, A. Khaki-Sedigh, *Chaos, Solitons and Fractals*, 41, pp1980-1986, 2009.
65. *Observer-based adaptive control of chaos in nonlinear discrete-time systems using time-delayed state feedback*, Amin Yazdanpanah Goharrizi a, Ali Khaki-Sedigh b, Nariman Sepehri, *Chaos, Solitons and Fractals*, 41, pp2248-2455, 2009.
66. *Adaptive Vehicle Lateral-Plane Motion Control Using Optimal Tire Friction Forces With Saturation Limits Considerations*, J. Ahmadi, A. Khaki-Sedigh, M. Kabganian, *IEEE Transaction on Vehicle Technology*, Vol. 58, no. 8, pp 4098-4107, 10.1109/TVT.2009.2023660, 2009.
67. *PH Control of Penicillin fermentation Process Using Predictive Approach*, A. Ashoori, B. Moshiri, A. Ramezani, M. R. Bakhtiari, A. Khaki Sedigh, *System Sciences*, Vol. 35, No. 1, 2009.
68. *Generalized Predictive control and tuning of Industrial Process with Second Order Plus Dead time models*, A. R Neshastehriz, A. Khaki-Sedigh, H. Sajadian, *Journal of Process Control*, Vol. 20, Issue 7, pp63-72, 2010.
69. *A Modified Proportional Navigation Guidance for Accurate Target Hitting*, A. Moharampour, J. Poshtan, and A. Khaki Sedigh, *Iranian Journal of Electrical 20 & Electronic Engineering*, Vol. 6, No. 1, Mar. 2010.
70. *Flight control of a launch vehicle using an L1 adaptive controller*, M Zareh, M Rezaei, J Roshanian, and A. Khaki-Sedigh, *Proc. IMechE Vol. 224 Part I: J. Systems and Control Engineering*, 2010.
71. *An ANOVA Based Analytical Dynamic Matrix Controller Tuning Procedure for FOPDT Models*, P. Bagheri, A. Khaki-Sedigh, Amirkabir, *MICS*, Vol. 42, No. 2, pp55-64, 2010.
72. *An Adjustable Model Reference Adaptive Control for a Flexible Launch Vehicle*, A. M. Khoshnood, J. Roshanian, A. A. Jafari, A. Khaki-Sedigh, *Journal of Dynamic Systems, Measurement, and Control*, Vol. 132, 2010.
73. *Variable structure control of linear time invariant fractional order systems using a finite number of state feedback law*, S. Baloochian, A. Khaki-Sedigh, A. Zare, *Commun Nonlinear Sci Numer Simulat* Vol. 16, pp 1433-1442, 2011.
74. *Descriptive vector, relative error matrix, and interaction analysis of multivariable plants*, N. Monshizadeh-Naini, A. Fatehi, A. Kahki-Sedigh, *Automatica*, Vol. 47, pp108-114, 2011.
75. *Stabilization of multi-input hybrid fractional-order systems with state delay*, S. Balochian, A. Khaki Sedigh, A. Zare, *ISA Transactions*, Vol. 50, pp 21-27, 2011.
76. *Identification and robust water level control of horizontal steam generators using quantitative feedback theory*, O. Safarzadeh, A. Khaki-Sedigh, A.S. Shirani, *Energy Conversion and Management* 52, 3103-3111, 2011.
77. *Improved dead zone modification for robust adaptive control of uncertain systems described by input-output models with actuator faults*, B. A. Charandabi, F. R. Salmasi, A. Khaki Sedigh, *IEEE Transactions on Automatic Control*, Vol. 56, No. 4, pp 863-867, April 2011.

78. *Design of supervisory Based Switching Controllers with Bumpless Transfer*, O. Namaki Shoushtari, A. Khaki Sedigh, Journal of Control, Vol. 4, No. 4, pp51-61, 2011.
79. *Adaptive neural network control of bilateral teleoperation with constant time delay*, A. Forouzentabar, H. A. Talebi, A. Khaki Sedigh, DOI 10.1007/s11071-011-0057-8, Nonlinear Dynamics, 2011.
80. *Bilateral control of master–slave manipulators with constant time delay*, A. Forouzentabar a, H. A. Talebi, A. Khaki Sedigh, ISA Transactions 51, pp 74-80, 2012.
81. *Stabilization of fractional order systems using a finite number of state feedback laws*, S. Balochian, A. Khaki Sedigh, M. Haeri, Nonlinear Dynamics, Vol. 66, pp141–152, DOI 10.1007/s11071-010-9916-y, 2011.
82. *Sufficient condition for stabilization of linear time invariant fractional order switched systems and variable structure control stabilizers*, S. Balochian, A. Khaki Sedigh, ISA Transactions 51, pp 65–73, 2012.
83. *Stabilization of chaos systems described by nonlinear fractional-order polytopic differential inclusion*, S. Balochian, A. Khaki Sedigh, Chaos 22, 013120 (2012); doi: 10.1063/1.3683487.
84. *Predictive controlled GSP performance improvement with an integrated H_2/H_∞* , M. Rezaei Darestani, A. A. Nikkhah, A. Khaki Sedigh, International Journal of Engineering, Transactions B: Applications, 2013: <http://www.ije.ir/Vol26/No11/B/4.pdf>
85. *Robust water level control of the U-tube steam generator*, O. Safarzadeh, A. Khaki-Sedigh, A. S. Shirani, Journal of Energy Engineering, vol. 139, Issue 3, pp 161–168, 2013
86. *On the structural optimization of a neural network model predictive controller*, M. Sadeghassadi, A. Fatehi, A. Khaki Sedigh, S. Hosseini, *Industrial and Engineering Chemistry Research, Ind. Eng. Chem. Res.*, Vol. 52, Issue 1, pp 394–407, DOI: 10.1021/ie201815r, 2013
87. *Two new methods for DNA splice site prediction based on neuro-fuzzy network and clustering*, Neural Computing and Applications, Volume 23, Issue 1 Supplement, pp 407-414, December 2013
88. *Analytical approach to tuning of model predictive control for first-order plus dead time models*, P. Bagheri, A. Khaki Sedigh, IET Control Theory and Applications, Vol. 7, No. 14, pp. 1806-1817, 2013
89. *New practical design of disturbance rejection control scheme for dfig with wind energy conversion systems*, A. Tohidi, A. Shamsaddinlou, O. Abedinia, A. Khaki Sedigh, K. Abbaszadeh, International Review of Electrical Engineering, Vol. 8, No. 3, 2013
90. *Short-term traffic flow forecasting: Parametric and nonparametric approaches via emotional temporal difference learning*, J. Abdi, B. Moshiri, B. Abdulhai, A. Khaki Sedigh, Neural Computing and Applications, 2013
91. *Automatic model bank selection in multiple model identification of gas turbine dynamics*, S. M. Hosseini, A. Fatehi, A. Khaki Sedigh, T. A. Johansen, Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering, 2013
92. *Selection of sensors for hydro-active suspension system of passenger car with input-output pairing considerations*, E. Sarshari, E., A. Khaki Sedigh, Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013
93. *Application of augmented UD identification with selective forgetting in an adaptive control loop*, P. Sarhadi, P., K. Salahshoor, A. Khaki-Sedigh, International Journal of Modelling, Identification and Control, 2014
94. *Non-linear generalised minimum variance control state space design for a second-order Volterra series model*, M. Maboodi, E. F. Camacho, A. Khaki-Sedigh, International Journal of Systems Science, DOI:10.1080/00207721.2013.874509, 2014
95. *A comparison of alternative strategies for optimal utilization of tyre friction forces aimed at vehicle lateral-plane motion control*, J. Ahmadi, A. Khaki Sedigh, Int. Journal of Vehicle Design, vol 66, no. 2, pp 166-192, 2014.
96. *A Review on the Present Status and Future Trends in the Analysis and Design of Control Systems*, A. Khaki Sedigh, Iranian Journal of Engineering Education, Number 62, Vol. 16, Summer 2014.
97. *An analytical tuning approach to multivariable model predictive controllers*, P Bagheri, A Khaki-Sedigh, Journal of Process Control 24 (12), 41-54, 2014.
98. *Control of Cardiac Arrhythmia by Nonlinear Spatiotemporal Delayed Feedback*, FR Boroujeni, N Vasegh, A. Khaki Sedigh, International Journal of Bifurcation and Chaos, 24 (11), 1450140, 2014.

99. *Analysis of a Chaotic Memristor Based Oscillator*, F Setoudeh, A Khaki Sedigh, M Dousti, *Abstract and Applied Analysis*, Vol. 2014, Article ID 628169, <http://dx.doi.org/10.1155/2014/628169>, 2014.
100. *Switching-Tuning Adaptive Multiple Model Predictive Control*, A Shamsaddinlou, A Fatehi, A Khaki Sedigh, *Journal of Control Engineering and Technology* 4 (2), 2014.
101. *Review of Model Predictive Control Tuning Methods and Modern Tuning Solutions*, A. Khaki Sedigh, P. Bagheri, *Journal of Control*, Vol. 8, No. 3, pp 69-87, 2014.
102. *X–Y pedestal: partial quasi-linearization and cascade-based global output feedback tracking control*, Mehdi Tavan, Ali Khaki-Sedigh, Mohammad Reza Arvan, Ahmad Reza Vali, *Nonlinear Dyn*, DOI 10.1007/s11071-015-2081-6, 2015
103. *A Novel Alignment Repulsion Algorithm for Flocking of Multi-Agent Systems Based on the Number of Neighbours per Agent*, R. Kahani, A. Khaki Sedigh & M. Gh. Mahjani, *International Journal of Control*, DOI: 10.1080/00207179.2015.1052986, 2015.
104. *An indirect adaptive predictive control for the pitch channel autopilot of a flight system*, Karim Salahshoor, Ali Khaki-Sedigh, Pouria Sarhadi, *Aerospace Science and Technology*, 45, 78–87, 2015.
105. *Control of multi-chaotic systems using the extended OGY method*, E. Nobakhti, A. Khaki Sedigh, *International Journal of Bifurcation and Chaos*, Vol. 25, No. 8, DOI: 10.1142/S0218127415500960, 2015.
106. *Robust tuning of dynamic matrix controllers for first order plus dead time models*, P. Bagheri, A. Khaki Sedigh, *Applied Mathematical Modelling*, doi:10.1016/j.apm.2015.02.035, 2015.
107. *Closed form tuning equations for model predictive control of first-order plus fractional dead time models*, Peyman Bagheri, Ali Khaki-Sedigh, *International Journal of Control, Automation and Systems*, Vol. 13, Issue 1., pp 73-80, 2015.
108. *A modified independent component analysis-based fault detection method in plant-wide systems*, M. Teimoorashloo, . A. Khaki Sedigh, *Control and Cybernetics*, vol. 44, No. 2, pp 1-23, 2015.
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