

Mohammad Ali Badamchizadeh (Ph.D.)
Professor of Control Engineering Department
Faculty of Electrical and Computer Engineering
University of Tabriz,
Tabriz, Iran
Office: Room 319
Tel: (+98-41) 33393729
Fax: (+98-41) 33300819
Home Page (Farsi): <https://faculty.tabrizu.ac.ir/badamchi/fa>
Home Page (English): <https://faculty.tabrizu.ac.ir/badamchi/en>
Scholar: <https://scholar.google.com/citations?user=edtNtXAAAAAJ&hl=en>
ORCID ID: 0000-0002-9999-1152

Dr. Mohammad Ali Badamchizadeh is Professor of Control Engineering Department, Faculty of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran. He received the B.S. degree in Electrical Engineering from University of Tabriz in 1988 and the M.Sc. degree in Control Engineering from University of Tabriz in 2001. He received the Ph.D. degree in Control Engineering from University of Tabriz in 2007. His major research interests include Adaptive Control, Fractional systems, Fuzzy Control and Stability of systems. He has published more than 104 articles in high impact journals and more than 55 conference papers.

Prof Badamchizadeh had received Young Researcher's Award (2010) of the Engineering Faculties of University of Tabriz and first Researcher's award (2012) and second Researcher's award (2016) of the Faculty of Electrical and Computer Engineering, University of Tabriz. He is also head of E-learning and off-campus learning of University of Tabriz. He has supervised many M.Sc. students and Ph.D. scholars till date and many are in progress. He is a member of editorial board and reviewer of many international journals.

He has developed and taught many undergraduate and graduate courses, including Signals & Systems, Linear Control Systems, Engineering Mathematics, Adaptive Control, Neural networks, Identification, Game theory and Chaos Control. He has served as director of the Adaptive Control and Identification Laboratory.

Book Chapter

1. Application of Sliding-Mode Control for Maximum Power Point Tracking of PV Systems", Book Chapter in: Solar Photovoltaic Power Plants: Advanced Control and Optimization Techniques, Springer, 2019

Journal papers:

1. M. A. Badamchizadeh, S. Khanmohammadi, G. Alizadeh, A. Aghagolzadeh, G. Karimian, "Using Sum of Squares Decomposition for Stability of Hybrid Systems," Special section on concurrent/Hybrid systems: Theory and Applications, IEICE Transaction on Fundamental of Electronics, Communications and Computer Science, 2007.

2. M. A. Badamchizadeh, S. Khanmohammadi, G. Alizadeh, A. Aghagolzadeh, "Stability of Nonlinear Hybrid Dynamical Systems with Time Delay via Sum of Squares Decomposition," *International Journal of Control, Automation and Systems* 7 (3), 331-339, 2009.
3. M. A. Badamchizadeh, I. Hassanzadeh, M. Abedinpour Fallah, "Extended and Unscented Kalman Filtering Applied to a Flexible-Joint Robot with Jerk Estimation," *Discrete Dynamics in Nature and Society*, Vol. 2010.
4. F. Sedaghati, A. Nahavandi, M. A. Badamchizadeh, S. Ghaemi, M. Abedinpour, "PV Maximum Power-Point Tracking by Using Artificial Neural Network," *Mathematical Problems in Engineering*, 1-10, Vol. 2012.
5. S. Eshaghi, H. Kharrati, M. A. Badamchizadeh, I. Hassanzadeh, "A Predictive Controller Based on Dynamic Matrix Control for a Non-Minimum Phase Robot Manipulator," *International Journal of Control, Automation, and Systems*, 10 (3):574-581, 2012.
6. S. Ghaemi, S. Khanmohammadi, M. A. Tinati, M. A. Badamchizadeh, "A Hierarchical Fuzzy System for Modeling Driver's Behavior," *International Journal of Control, Automation and Systems*, 10 (3):517-528, 2012.
7. J. Tavoosi, M. A. Badamchizadeh, "A Class of Type-2 Fuzzy Neural Networks for Nonlinear Dynamical System Identification," *Neural Computing and Applications* 23 (3-4), 707-717, 2013.
8. M. Alinia Ahandani, M. T. Vakil Baghmisheh, M. A. Badamchizadeh, S. Ghaemi, "Hybrid particle swarm optimization transplanted into a hyper-heuristic structure for solving examination timetabling problem," *Swarm and Evolutionary Computation* 7, 21-34, 2012.
9. M. Hosseinpour, P. Nikdel, M. A. Badamchizadeh, M. E. Akbari, "Modelling and control of flexible joint robot based on Takagi-Sugeno fuzzy approach and its stability analysis via sum of squares," *Mathematical and Computer Modelling of Dynamical Systems* 19 (3), 250-262, 2012.
10. M. Hosseinpour, P. Nikdel, M. A. Badamchizadeh, M.A. Poor, "Stabilizing of Subspaces Based on DPGA and Chaos Genetic Algorithm for Optimizing State Feedback Controller," *Mathematical Problems in Engineering*, Vol. 2012, 2012.
11. A. Jafarifarmand, M. A. Badamchizadeh, "Artifacts Removal in EEG Signal using a New Functional Link Neural Networks," *Neurocomputing* 103, 222-231, 2013.
12. M. A. Badamchizadeh, S. Ghaemi, S. Khanmohammadi, "A New method for Stabilization of uncertain time delay systems using fuzzy Lyapunov Krasovskii functional approach," *Transactions on Engineering, Computing and Technology*, 2004.

13. M. A. Badamchizadeh, A. Akbari Chianeh, "Security in IPv6: Past, Present, Future," WSEAS Transactions on Business and Economics 2 (3), 85-91, 2006.
14. M. A. Badamchizadeh, N. Nikdel, M. Kouzeghar, "Comparison of Genetic Algorithm and Particle Swarm Optimization for Data Fusion Method Based on Kalman Filter," International Journal of Artificial Intelligence™ 5 (A10), 67-78, 2010.
15. M. E. Akbari, G. Alizadeh, S. Khanmohammadi, I. Hassanzadeh, M. Mirzaei, M. A. Badamchizadeh, "Design and Implementation a Nonlinear H_{∞} Based Tracking Controller for Low Stiffness Flexible Joint Robot with Backlashes Nonlinearities," International Journal of Recent Trends in Engineering, 4 (3), 2010.
16. M. E. Akbari, G. Alizadeh, S. Khanmohammadi, I. Hassanzadeh, M. Mirzaei, M. A. Badamchizadeh, "Design and Implementation of a Nonlinear H_{∞} tracking Controller for high Elastic Joint Robot with Compensated Friction," International Journal of Engineering Science and Technology, 2 (12), 2010.
17. I. Hassanzadeh, N. Nikdel, N. Talebi Motlag, M. A. Badamchizadeh, "Design of Augmented EKF for Shape Memory Alloy Actuated Manipulator," International Journal of Engineering Science and Technology, 1 (2), 3188-3198, 2010.
18. A. Mohammadzadeh Gharehbaghi, M. A. Badamchizadeh, "An Improved Method for Fuzzy Congestion Control in IEEE 802.11 Wireless Local Area Networks", International Journal of Computer and Network Security, 2 (6), 2010.
19. M.A. Badamchizadeh, L. Ghosi, M. Hosseinpour, P. Nikdel, "Chaos Distributed Population Genetic Algorithm for PID Tuning," International Journal of Recent Trends in Engineering, 4 (3), 2010.
20. M. E. Akbari, G. Alizadeh, S. Khanmohammadi, I. Hassanzadeh, M. Mirzaei, M. A. Badamchizadeh, "Nonlinear H_{∞} controller for flexible joint robots with using feedback linearization," International Journal on Computer Science and Engineering, 3 (1), 2011.
21. R. Rangarangi Hokmabad, M. A. Badamchizadeh, S. Khanmohammadi, "Fault Diagnosis of Discrete Event Systems Using Hybrid Petri Nets," International Journal of Computer Theory and Engineering, 4 (2), 288-292, 2012.
22. S. Ghaemi, S. Khanmohammadi, M. A. Tinati, and M. A. Badamchizadeh, "Creating a Fuzzy Model for Stressful Driver's Behavior," International Journal of Computer Theory and Engineering, 4 (2), 278-282, 2012.
23. A. Haseltalab and M. A. Badamchizadeh, "Optimization of Distributed Control Systems Using Information Technology Assets," International Journal of Computer Theory and Engineering, 4 (2), 274-277, 2012.
24. M. Kouzeghar, M. A. Badamchizadeh, S. Khanmohammadi, "Fuzzy Petri Nets for Human Behavior Verification and Validation," International Journal of Advanced Computer Science and Applications, 2 (12), 106-114, 2011.

25. M. R. Shabgard, M.A. Badamchizadeh, G. Ranjbary, K. Amini, "Fuzzy approach to select machining parameters in electrical discharge machining (EDM) and ultrasonic-assisted EDM processes," *Journal of Manufacturing Systems*, 32 (1), 32-39 2012.
26. N. Nikdel, P. Nikdel, M. A. Badamchizadeh, I. Hassanzadeh, "Using neural network model predictive control for controlling shape memory alloy-based manipulator," *IEEE Transactions on Industrial Electronics* 61 (3), 1394-1401, 2014.
27. H. Haghshenas, M. A. Badamchizadeh, M. Baradarannia, "Containment control of heterogeneous linear multi-agent systems," *Automatica* 54, 210-216, 2015.
28. M. Sanatizadeh, M. A. Badamchizadeh, S. Khanmohammadi, D. Ashtiani Haghghi, "A New Method for Solving Dynamic Flexible Job Shop Scheduling Problems Integrating Genetic Algorithm and Priority Rules," *International Journal of Engineering works*, 1 (2), 26-31, 2014.
29. M. Kouzehgar, M. A. Badamchizadeh, M. R. Feizi-Derakhshi, "Ant-Inspired Fuzzily Deceptive Robots," *IEEE Transactions on Fuzzy Systems* 24 (2), 374 – 387, 2014.
30. N. Nikdel, M. A. Badamchizadeh, "Adaptive Backstepping Control for a 2-DOF Robot Manipulator: A State Augmentation Approach," *International Journal of Materials, Mechanics and Manufacturing*, 5 (2), 2017.
31. M. E. Akbari, M. A. Badamchizadeh, M. A. Poor, "Implementation of a fuzzy TSK controller for a flexible joint robot," *Discrete Dynamics in Nature and Society*, 1-21, 2012.
32. M. A. Badamchizadeh, M. E. Akbari, "Soft Switching MBC Controller for MIMO Linear Hybrid Systems" *Journal of Artificial Intelligence in Electrical Engineering*, 1 (4), 29-35, 2013.
33. S. Pezeshki, M. A. Badamchizadeh, S. Ghaemi, M. A. Poor, "Designing of adaptive model-free controller based on output error and feedback linearization," *Abstract and Applied Analysis*, 1-13, 2013.
34. P. Nikdel, M. Hosseinpour, M. A. Badamchizadeh, M. E. Akbari, "Improved Takagi–Sugeno fuzzy model-based control of flexible joint robot via Hybrid-Taguchi genetic algorithm," *Engineering Applications of Artificial Intelligence* 33, 12-20, 2014.
35. N. Nikdel, M. A. Badamchizadeh, "Design and implementation of neural controllers for shape memory alloy-actuated manipulator," *Journal of Intelligent Material Systems and Structures* 26 (1), 20-28, 2015
36. S. Pezeshki, M. A. Badamchizadeh, A. R. Ghiasi, S. Ghaemi, "Control of overhead crane system using adaptive model-free and adaptive fuzzy sliding mode

controllers,” *Journal of Control, Automation and Electrical Systems* 26 (1), 1-15, 2015.

37. H. Haghshenas, M. A. Badamchizadeh, M. Baradarannia, “Adaptive containment control of nonlinear multi-agent systems with non-identical agents,” *International Journal of Control* 88 (8), 1586-1593, 2015.

38. R. Behinfaraz, M. A. Badamchizadeh, A. R. Ghiasi, “An approach to achieve modified projective synchronization between different types of fractional-order chaotic systems with time-varying delays,” *Chaos, Solitons & Fractals* 78, 95-106, 2015.

39. M. R. Mojallizadeh, M. A. Badamchizadeh, “Adaptive Passivity-Based Control of a Photovoltaic/Battery Hybrid Power Source via Algebraic Parameter Identification,” *IEEE Journal of Photovoltaics* 6 (2), 532 – 539, 2016.

40. N. Nikdel, M. A. Badamchizadeh, V. Azimirad, M. Nazari, “Fractional-Order Adaptive Backstepping Control of Robotic Manipulators in the Presence of Model Uncertainties and External Disturbances,” *IEEE Transactions on Industrial Electronics* 63 (10), 6249 – 6256, 2016.

41. R. Behinfaraz, M. A. Badamchizadeh, “Optimal synchronization of two different in-commensurate fractional-order chaotic systems with fractional cost function,” *Complexity*, 21 (S1), 401-416, 2016.

42. R. Behinfaraz, M. A. Badamchizadeh, A. R. Ghiasi, “An adaptive method to parameter identification and synchronization of fractional-order chaotic systems with parameter uncertainty,” *Applied Mathematical Modelling* 40 (7), 4468-4479, 2016.

43. S. Pezeshki, A. R. Ghiasi, M. A. Badamchizadeh, K. Sabahi, “Adaptive Robust Control of Autonomous Underwater Vehicle,” *Journal of Control, Automation and Electrical Systems* 27 (3), 250-262, 2016.

44. K. Sabahi, S. Ghaemi, M. A. Badamchizadeh, “Designing an adaptive type-2 fuzzy logic system load frequency control for a nonlinear time-delay power system,” *Applied Soft Computing* 43, 97-106, 2016.

45. M. R. Mojallizadeh, M. A. Badamchizadeh, S. Khanmohammadi, M. Sabahi, “Chattering free full-order terminal sliding-mode control for maximum power point tracking of photovoltaic cells,” *IET Renewable Power Generation*, 11 (1), 85-91, 2017.

46. M. R. Mojallizadeh, M. A. Badamchizadeh, S. Khanmohammadi, M. Sabahi, “Designing a new robust sliding mode controller for maximum power point tracking of photovoltaic cells,” *Solar Energy* 132, 538-546, 2016.

47. S. Pashaei, M. A. Badamchizadeh, “A new fractional-order sliding mode controller via a nonlinear disturbance observer for a class of dynamical systems with mismatched disturbances,” *ISA Transactions* 63, 39-48, 2016.

48. D. Nojavanzadeh, M. A. Badamchizadeh, "Adaptive fractional-order non-singular fast terminal sliding mode control for robot manipulators," *IET Control Theory & Applications* 10 (13), 1565-1572, 2016.
49. A. Jafarifarmand, M. A. Badamchizadeh, S. Khanmohammadi, M. A. Nazari, B. Mozaffari Tazehkand, "Real-time ocular artifacts removal of EEG data using a hybrid ICA-ANC approach," *Biomedical Signal Processing and Control* 31, 199-210, 2017.
50. S. Barghandan, M. A. Badamchizadeh, M. R. Jahed-Motlagh, "Improved adaptive fuzzy sliding mode controller for robust fault tolerant of a Quadrotor," *International Journal of Control, Automation and Systems* 15 (1), 427-441, 2017.
51. N. Nikdel, M. A. Badamchizadeh, V. Azimirad, M. A. Nazari, "Adaptive backstepping control for an n-degree of freedom robotic manipulator based on combined state augmentation" *Robotics and Computer-Integrated Manufacturing* 44, 129-143, 2017.
52. M. Asghari, M. A. Badamchizadeh, M. E. Akbari, "The Intelligent Modeling of Human Hand Motion Using Magnetic Based Techniques" *Journal of Artificial Intelligence in Electrical Engineering* 1 (1), 40-47, 2012.
53. H. Shokouhi-Nejad, A. Ghiasi, M. A. Badamchizadeh, "Robust simultaneous finite-time control and fault detection for uncertain linear switched systems with time-varying delay" *IET Control Theory & Applications*, 11 (7) , 1041 – 10522, 2017.
54. Mohammad Rasool Mojallizadeh, Mohammad Ali Badamchizadeh, "Second-order fuzzy sliding-mode control of photovoltaic power generation systems" *Solar Energy*, 149, 332–340, 2017.
55. H. Shokouhi-Nejad, A. Ghiasi, M. A. Badamchizadeh, "Robust simultaneous fault detection and control for a class of nonlinear stochastic switched delay systems under asynchronous switching" *Journal of the Franklin Institute*, 354 (12), 4801-4825, 2017.
56. Shamisa Shoja, Mahdi Baradarannia, Farzad Hashemzadeh, Mohammad Ali Badamchizadeh, Peyman Bagheri, "Surrounding control of nonlinear multi-agent systems with non-identical agents" *ISA Transactions*, 70, 219-227, 2017
57. Kamel Sabahi, Sehraneh Ghaemi, Jianxing Liu, Mohammad Ali Badamchizadeh, "Indirect predictive type-2 fuzzy neural network controller for a class of nonlinear input - delay systems" *ISA Transactions*, 71(2), 185-195, 2017
58. N. Nikdel, Mohammad Ali Badamchizadeh, "Fractional-order adaptive backstepping control of a class of uncertain systems with external disturbances" *International Journal of Control*, 92(6), 1344-1353, 2019
59. Amir Aminzadeh Ghavifekr, Amir Rikhtehgar Ghiasi and Mohammad Ali Badamchizadeh, "Discrete-time control of bilateral teleoperation systems: a review" *Robotica*, 36, 552-569, April 2018

60. S. Pezeshki, M. A. Badamchizadeh, A. R. Ghiasi, S. Ghaemi, "Robust Tracking Control of a Class of Switched Nonlinear Systems with Input Delay Under Asynchronous Switching" *Journal of Dynamic Systems, Measurement and Control - ASME Journal*, 140(061013), 1-11, JUNE 2018.
61. Sehraneh Ghaemi, Kamel Sabahi, Mohammad Ali Badamchizadeh, "Lyapunov–Krasovskii stable T2FNN controller for a class of nonlinear time-delay systems" *Soft Computing*, 23(4), 1407–1419, Feb. 2019
62. Amir A. Ghavifekr, Amir R. Ghiasi, Mohammad Ali Badamchizadeh, Farzad Hashemzadeh, Paolo Fiorini, "Stability analysis of the linear discrete teleoperation systems with stochastic sampling and data dropout" *European Journal of Control* 41 63–71, May 2018
63. Aysa Jafarifarmand, Mohammad Ali Badamchizadeh, Sohrab Khanmohammadi, Mohammad Ali Nazari and Behzad Mozaffari Tazehkand, "A New Self-Regulated Neuro-Fuzzy Framework for Classification of EEG Signals in Motor Imagery BCI" *IEEE Transactions on Fuzzy Systems*, 26(3), 1485-1497, June 2018
64. M. Amiri, S. Khanmohammadi, M. A. Badamchizadeh, "Floating search space: A new idea for efficient solving the Economic and emission dispatch problem" *Energy*, 158, 564-579, September 2018
65. Reza Behinfaraz, Mohammad Ali Badamchizadeh, "Synchronization of different fractional order chaotic systems with time-varying parameter and orders" *ISA Transactions* 80, 399–410, September 2018.
66. Mohammad Rasool Mojallizadeh, Mohammad Ali Badamchizadeh, "Hybrid Control of Single-Inductor Multiple-Output Converters" *IEEE Transactions on Industrial Electronics*, 66(1), 451-458, January 2019
67. S. Rafatnia, H. Nourmohammadi, J. Keighobadi, M.A. Badamchizadeh, "In-move aligned SINS/GNSS system using recurrent wavelet neural network (RWNN)-based integration scheme" *Mechatronics*, 54, 155-165, October 2018
68. Hossein Shokouhi-Nejad, Amir Rikhtehgar Ghiasi, Mohammad Ali Badamchizadeh and Saeed Pezeshki, " H_∞/H - Simultaneous fault detection and control for continuous-time linear switched delay systems under asynchronous switching" *Transactions of the Institute of Measurement and Control*, 41(1), 263–275, January 2019.
69. A. Gheibi, A. R. Ghiasi, S. Ghaemi & M. A. Badamchizadeh, "Designing of robust adaptive passivity-based controller based on reinforcement learning for nonlinear port-Hamiltonian model with disturbance" *International Journal of Control*, 93(8), 1754-1764, 2020
70. S. Pezeshki, M. A. Badamchizadeh, A. R. Ghiasi, S. Ghaemi, "Stability analysis and robust tracking control for a class of switched nonlinear systems with uncertain input delay," *Transactions of the Institute of Measurement and Control*, 41(7), 2053-5063, 2019.

71. Maryam Kouzehgar, Mohammad Ali Badamchizadeh, “Fuzzy signaling game of deception between ant-inspired deceptive robots with interactive learning,” *Applied Soft Computing* 75, 373-387, 2019.
72. S. Pezeshki, M. A. Badamchizadeh, A. R. Ghiasi, S. Ghaemi, “Stability Analysis and Robust Stabilization for a Class of Switched Nonlinear Systems with Input Delay,” *International Journal of Control*, 93(10), 2457-2468, 2020.
73. Mohammad Rasool Mojallizadeh; Mohammad Ali Badamchizadeh, “Switched linear control of quadratic-boost converters,” *IEEE Journal of Emerging and Selected Topics in Power Electronics*, 7(4), 2196-2203, Dec. 2019.
74. Mohammad Rasool Mojallizadeh; Mohammad Ali Badamchizadeh, “Switched linear control of interleaved boost converters,” *Electrical Power and Energy Systems* 109, 526–534, July 2019
75. Kamel Sabahi; Sehraneh Ghaemi; Mohammad Ali Badamchizadeh, “Feedback error learning-based type-2 fuzzy neural network predictive controller for a class of nonlinear input delay systems” *Transactions of the Institute of Measurement and Control*, 41(13), 3651-3665, September 2019.
76. Arezoo Jahani, Leyli Mohammad Khanli, Mehrdad Tarafdar Hagh, Mohammad Ali Badamchizadeh, “Green virtual network embedding with supervised self-organizing map” *Neurocomputing*, 351, 60-76, July 2019.
77. Arezoo Jahani, Leyli Mohammad Khanli, Mehrdad Tarafdar Hagh, Mohammad Ali Badamchizadeh, “EE-CTA: Energy Efficient, Concurrent and Topology-Aware virtual network embedding as a multi-objective optimization problem” *Computer Standards & Interfaces*, 66, 103351, October 2019.
78. Aysa Jafarifarmand, Mohammad Ali Badamchizadeh “EEG Artifacts Handling in a Real Practical Brain–Computer Interface Controlled Vehicle” *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 27(6), 1200-1208, June 2019.
79. A. Afaghi, S. Ghaemi, A. R. Ghiasi, M. A. Badamchizadeh, “Adaptive fuzzy observer-based cooperative control of unknown fractional-order multi-agent systems with uncertain dynamics” *Soft Computing*, 24(5), 3737–3752, March 2020
80. S. Pezeshki, M. A. Badamchizadeh, A. R. Ghiasi, S. Ghaemi, “ H_∞ tracking control for a class of asynchronous switched nonlinear systems with uncertain input delay” *Journal of the Franklin Institute*, 356(12), 5927–5943, August 2019.
81. Mostafa Asadollahi, Amir Rikhtehgar Ghiasi. Mohammad Ali Badamchizadeh, “Adaptive synchronization of chaotic systems with hysteresis quantizer input” *ISA Transactions*, 98, 137-148, March 2020.

82. Mostafa Asadollahi, Amir Rikhtehgar Ghiasi, Mohammad Ali Badamchizadeh, "Adaptive control for a class of nonlinear chaotic systems with quantized input delays" *Journal of the Franklin Institute*, 357(1), 254-278, January 2020.
83. A. Jafarifarmand, M. A. Badamchizadeh, "Real-time multiclass motor imagery brain-computer interface by modified common spatial patterns and adaptive neuro-fuzzy classifier," *Biomedical Signal Processing and Control* 57, 1-8, March 2020.
84. A. Gheibi, A. R. Ghiasi, S. Ghaemi, M. A. Badamchizadeh, "Interconnection and damping assignment control based on modified actor-critic algorithm with wavelet function approximation," *ISA Transactions*, 101, 116-129, June 2020.
85. Majid Khak Pour, Sehraneh Ghaemi, Mohammad Ali Badamchizadeh, "A Systematic Design of Stabilizer Controller for Interval Type-2 TSK Fuzzy Logic Systems" *Fuzzy Information and Engineering*, 2020, 1-21, Jun. 2020
86. Shabnam Pashaei, Mohammad Ali Badamchizadeh, "Control of a class of fractional-order systems with mismatched disturbances via fractional-order sliding mode controller" *Transactions of the Institute of Measurement and Control*, 42(13), 2423-2439, Sep. 2002.
87. Vahid Pourmostaghimi, Mohammad Zadshakoyan, Mohammad Ali Badamchizadeh, "Intelligent model-based optimization of cutting parameters for high quality turning of hardened AISI D2" *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, 2020, 1-9, March 2020
88. Amir A. Ghavifekr, Amir R. Ghiasi, Mohammad Ali Badamchizadeh, Farzad Hashemzadeh "Exponential stability of bilateral sampled-data teleoperation systems using multirate approach" *ISA Transactions* 105, 190–197, Oct. 2020
89. Reza Behinfaraz, Sehraneh Ghaemi, Sohrab Khanmohammadi, Mohammad Ali Badamchizadeh, "Fuzzy-Based Impulsive Synchronization of Different Complex Networks with Switching Topology and Time-Varying Dynamic" *International Journal of Fuzzy Systems*, 22, 2565–2576, Nov. 2020
90. Behzad Sinafar, Hamed Kharrati, Mohammad Ali Badamchizadeh, Mahdi Baradarannia, "Distributed adaptive switching control of uncertain switched affine multi-agent systems" *Nonlinear Analysis: Hybrid Systems* 38 (2020) 100941, Nov. 2020
91. Reza Behinfaraz, Sehraneh Ghaemi, Sohrab Khanmohammadi, Mohammad Ali Badamchizadeh, "Time-varying parameters identification and synchronization of switching complex networks using the adaptive fuzzy-impulsive control with an application to secure communication" *Asian Journal of Control*, 24(1), 377-387, Jan. 2022
92. Abbas Zabihi Zonouz, Mohammad Ali Badamchizadeh, Amir Rikhtehgar Ghiasi, "A new control approach for a class of linear switched systems with time-varying delay," *Transactions of the Institute of Measurement and Control*, 43(10), 2213-2228, 2021.

93. Behzad Sinafar, Mohammad Ali Badamchizadeh, Hamed Kharrati, Mahdi Baradarnia, "Distributed min-projection control: A switching consensus protocol for switched affine multi-agent systems," *Journal of Vibration and Control*, 28(1-2), 17-29, Jan. 2022.
94. Mohammad Javad Mirzaei, Ehsan Aslmostafa, Mostafa Asadollahi, Mohammad Ali Badamchizadeh, "Robust adaptive finite-time stabilization control for a class of nonlinear switched systems based on finite-time disturbance observer" *Journal of the Franklin Institute* 358, 3332–3352, May 2021.
95. Ali Afaghi, Sehraneh Ghaemi, AmirRikhtehgar Ghiasi, Mohammad Ali Badamchizadeh, "Type-2 fuzzy consensus control of nonlinear multi-agent systems: An LMI approach" *Journal of the Franklin Institute* 358, 4326–4347, May 2021.
96. Ehsan Aslmostafa, Mohammad Javad Mirzaei, Mostafa Asadollahi, Mohammad Ali Badamchizadeh, "Synchronization problem for a class of multi-input multi-output systems with terminal sliding mode control based on finite-time disturbance observer: Application to Chameleon chaotic system" *Chaos, Solitons & Fractals* 150, 1-11, Sep. 2021.
97. Mohammad Javad Mirzaei, Ehsan Aslmostafa, Mostafa Asadollahi, Mohammad Ali Badamchizadeh, "Finite-time synchronization control for a class of perturbed nonlinear systems with fixed convergence time and hysteresis quantizer: applied to Genesio–Tesi chaotic system" *Nonlinear Dynamics*, 10, 2327–2343, February 2022.
98. Ehsan Aslmostafa, Sehraneh Ghaemi, Mohammad Ali Badamchizadeh, Amir Rikhtehgar Ghiasi, "Adaptive backstepping quantized control for a class of unknown nonlinear systems" *ISA Transactions*, 125, 146-155, 2022.
99. Ehsan Aslmostafa, Mohammad Javad Mirzaei, Mostafa Asadollahi, Mohammad Ali Badamchizadeh, "Stabilization Problem for a Class of Nonlinear MIMO Systems Based on Prescribed-Time Sliding Mode Control" *Arabian Journal for Science and Engineering*, 47, 15083-15094, June 2022
100. Ali Kazemi, Hamed Kharrati, Mohammad Ali Badamchizadeh, Amir Rikhtehgar Ghiasi, "Distributed control reconfiguration of nonlinear interconnected systems in the presence of actuator faults" *International journal of robust and nonlinear control*, 32(14), 7967-7986, Sep. 2022
101. Ehsan Aslmostafa, Mohammad Javad Mirzaei, Mostafa Asadollahi, Mohammad Ali Badamchizadeh, "Free-will arbitrary time stabilization problem for a class of nonlinear strict-feedback systems based on the backstepping method" *International Journal of Control*, 96(11), 2749-2761, 2023
102. Vahid Pourmostaghimi, Mohammad Zadshakoyan, Saman Khalilpourazary, Mohammad Ali Badamchizadeh, "A hybrid particle swarm optimization and recurrent dynamic neural network for multi performance optimization of hard turning operation", *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, 36, 1-12, 2022

103. Helaleh Badrno, Mahdi Baradarannia, Peyman Bagheri, Mohammad Ali Badamchizadeh, "Distributed Predictive Consensus Control of Uncertain Linear Multiagent Systems with Heterogeneous Dynamics", *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, 47, 255-267, 2023
104. Amir Arslan Haghrah, Sehraneh Ghaemi, Mohammad Ali Badamchizadeh, "Fuzzy-SIRD model: Forecasting COVID-19 death tolls considering governments intervention" *Artificial Intelligence in Medicine*, 134, 102422, 2022
105. M. Bala Seyed Ghasir, A. Heydari, M. A. Badamchizadeh, "A Method for Solving Nonsmooth Pseudoconvex Optimization" *International Journal of Mathematical Modelling & Computations*, 12(1), 15-25, 2022
106. Mona Saber Gharamaleki, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, Reza Behinfaraz, "Synchronization of time-varying fractional-order chaotic systems in the presence of unknown disturbance using a fast disturbance identification" *Transactions of the Institute of Measurement and Control*, 46(1), 144-154, 2024.
107. Behzad Sinafar, Mohammad Ali Badamchizadeh, Hamed Kharrati, Mahdi Baradarannia, "Current sharing and voltage regulation of parallel DC-DC buck converters: Switching control approach" *ISA Transactions*, 140, 490-502, September 2023.
108. Mohammad Javad Mirzaei, Sehraneh Ghaemi, Mohammad Ali Badamchizadeh, Mahdi Baradarannia, "Adaptive super-twisting control for leader-following consensus of second-order multi-agent systems based on time-varying gains" *ISA Transactions*, 140, 144-156, September 2023
109. Ashkan Safari, Mohammad Ali Badamchizadeh, "Stock index forecasting using DACLAMNN: A new intelligent highly accurate hybrid ACLSTM/Markov neural network predictor" *Cognitive Computation and Systems*, 5(3), 181-194, 2023.
110. Babak Zareinia, Amir Rikhtehgar Ghiasi, Mohammad Ali Badamchizadeh, "A resilient approach for simultaneous fault detection and control for a class of nonlinear systems" *International Journal of Control*, 97(10), 2202-2212, 2024
111. Babak Zareinia, Amir Rikhtehgar Ghiasi, Mohammad Ali Badamchizadeh, "A new integrated fault detection and control scheme of islanded DC microgrids: A resilient approach" *ISA Transactions*, 146, 165-174, March 2024.
112. Mohammad Javad Mirzaei, Mostafa Asadollahi, Ehsan Aslmostafa, Mohammad Ali Badamchizadeh, "Continuous Robust Control Based on Fixed-Time Super-Twisting Disturbance Observer" *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 54(1), 426-435, Jan. 2024
113. Othman M. Hussein Anssari, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, "Designing of a PSO-Based Adaptive SMC with a Multilevel Inverter for MPPT of PV Systems Under Rapidly Changing Weather Conditions" *IEEE Access*, 12, 41421-41435, March 2024.

114. Behzad Sinafar, Mohammad Ali Badamchizadeh, "Voltage regulation of DC-DC boost converter with input filter: hybrid and embedded PWM control approaches" *Nonlinear Dynamics*, 112, 14291-14307, June 2024.
115. Ashkan Safari, Mohammad Ali Badamchizadeh, "Stock Market Predictions with a Sequence-Oriented BiLSTM Stacked Model – A Dataset Case Study of AMZN" *Intelligent Systems with Applications*, 24, 1-13, December 2024.
116. Ashkan Safari, Mohammad Ali Badamchizadeh, "NeuroQuMan: Quantum Neural Network-based Consumer Reaction Time Demand Response Predictive Management" *Neural Computing & Applications*, 36, 19121–19138, October 2024.
117. Farnaz Rahimi, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, Alessandro Del Vecchio, "Simultaneous Estimation of Digit Tip Forces and Hand Postures in a Simulated Real-Life Condition With High-Density Electromyography and Deep Learning" *IEEE Journal of Biomedical and Health Informatics*, 28(10), 5708-5717, October 2024.
118. Soheil Sheikh Ahmadi, Farzad Hashemzadeh, Mohammad Ali Badamchizadeh, "Reduced order state estimation for a class of impulsive switched systems with unknown inputs" *ISA Transactions*, 155, 171-183, December 2024.
119. Amir Arslan Haghrah, Sehraneh Ghaemi, Mohammad Ali Badamchizadeh, "Modeling and Solving Multi-Objective Path Planning Problem for Cooperative Cable-Suspended Load Transportation Considering the Time Variable Risk" *IEEE Access*, 12, 11702– 11709, Jan. 2025.
120. Amir Arslan Haghrah, Sehraneh Ghaemi, Mohammad Ali Badamchizadeh, "PyIT2FLS: An open-source Python framework for flexible and scalable development of type 1 and interval type 2 fuzzy logic models" *SoftwareX*, 30, 102146, May 2025.
121. Amir Arslan Haghrah, Sehraneh Ghaemi, Mohammad Ali Badamchizadeh, "An incremental learning-based fuzzy control scheme for a class of uncertain Euler-Lagrange systems" *Iranian Journal of Fuzzy Systems*, 22(2), 147-170, April 2025.
122. Mohammad Ali Badamchizadeh, Behzad Sinafar, "Consensus-Based Distributed Switching Control for Current Sharing of Parallel DC-DC Buck Converters" *International journal of robust and nonlinear control*, July 2025, online
123. Nazanin Soleimani, Mahdi Baradarannia, Mohammad Ali Badamchizadeh, Milad Mousavi, Hamidreza Ashrafi, "A multi-agent system sweeping coverage algorithm for paths with uncertain workload and borders" *International Journal of Dynamics and Control*, 13(283), 1-13, July 2025
124. Soheil Sheikh Ahmadi, Farzad Hashemzadeh, Mohammad Ali Badamchizadeh, "Observer design for switching signal and states for a class of nonlinear impulsive switching systems" *International Journal of Dynamics and Control*, 14(45), 1-14, 2026.

125. Othman M. Hussein Anssari, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, "Modeling and Simulation of a Variable Irradiance Particle Swarm Optimization Algorithm for Maximum Power Point Tracking in Photovoltaic Systems" *Journal of Sustainable Development of Energy, Water and Environment Systems*, 14(2), 1-24, 2026

126. Mahdi Mansoury Mohammad Ali Badamchizadeh, Peyman Roozafzoon Bashsiz, Sina Pakkhesal, Elaheh Rahimpour, Abolghasem Jouyban, "Evaluating machine learning models for accurate solubility prediction ofazole drugs in binary solvents at various temperatures" *Fluid Phase Equilibria*, 605, 1-13, June 2026.

127. Farnaz Rahimi, Mohammad Ali Badamchizadeh, Raul C. Simpetru, Sehraneh Ghaemi, Bjorn M. Eskofier, Alessandro Del Vecchio, "Simultaneous Control of Human Hand Joint Positions and Grip Force via HD-sEMG and Deep Learning" *IEEE Access*, 14, 79400-79410, May 2026.

Conference papers:

1. S. Khanmohammadi, A. Aghagolzadeh, M. A. Badamchizadeh, S. Ghaemi "Application of fuzzy linguistic geometry on robot path planning," 12th International symposium on measurement & control in robotics (ISMRC'02), 20-21 June 2002, Bourges, France.

2. S. Khanmohammadi, A. Aghagolzadeh, M. A. Badamchizadeh, S. Ghaemi "Application of Linguistic Geometry to Real Time Navigation of Multiple Robots," 12th International symposium on measurement & control in robotics (ISMRC'02), 20-21 June 2002, Bourges, France.

3. S. Khanmohammadi, A. Aghagolzadeh, M. A. Badamchizadeh, S. Ghaemi "Application of fuzzy linguistic geometry on robot 3D path planning," 10th IEEE Mediterranean Conference on Control and Automation (MED2002), 9-12 July 2002, Lisboa, Portugal.

4. S. Khanmohammadi, A. Aghagolzadeh, M. A. Badamchizadeh, S. Ghaemi "Application of Linguistic Geometry to Real Time 3D Navigation of Multiple Robots," 10th IEEE Mediterranean Conference on Control and Automation (MED2002), 9-12 July 2002, Lisboa, Portugal.

5. M. A. Badamchizadeh, A. Aghagolzadeh "Comparative Study of Unsharp Masking Methods for Image Enhancement," *Image and Graphics (ICIG'04)*, Third International Conference on, 27-30, 2004, Hong Kong, China

6. S. H. Hosseini, M. A. Badamchizadeh "A Fuzzy Power Control for Three Phase PWM Rectifier with Active Filtering Function," *International Conference on Control, Automation and Systems (ICCAS2005)* June 2-5, 2005, Gyeong Gi, Korea

7. M. Zalloi, S. Barghandan, M. A. Badamchizadeh "Thermodynamic Model of One of the Super Heaters and the Related Spray in the Nekka Power Plant and Presenting

SCO Method to Control Boiler Temperature,” International Conference on Control, Automation and Systems (ICCAS2005) June 2-5, 2005, Gyeong Gi, Korea

8. M. A. Badamchizadeh “A New method for Stabilization of uncertain time delay systems using fuzzy Lyapunov Krasovskii functional approach,” International Conference on Computational Intelligence 2004 (ICCI 2004) 17-19 December 2004 Istanbul, Turkey .

9. S. Khanmohammadi, M.A. Tinati, S. Ghaemi, M.A. Badamchizadeh, “Fuzzy and PSO Based Algorithm for driver’s behavior modeling,” International Fuzzy Systems Association European Society for Fuzzy Logic and Technology, 1270-1275, 2009, Portugal.

10. M. A. Badamchizadeh, N. Nikdel, M. Kouzeghar, “Optimization of Data Fusion Method Based on Kalman Filter using Genetic Algorithm and Particle Swarm Optimization,” The 2nd International Conference on Computer and Automation Engineering, Feb. 2010, Singapore.

11. M. A. Badamchizadeh, K. Madani, “Applying Modified Discrete Particle Swarm Optimization Algorithm and Genetic Algorithm for System Identification,” Computer and Automation Engineering (ICCAE), 2010 The 2nd International Conference on, 5, 354-358, 2010, Singapore.

12. M. A. Badamchizadeh, Y. Alipouri, M. Baradarnnia, “Average Gene Method for Increasing the Convergence Speed of Discrete Genetic Algorithms,” The 2nd International Conference on Computer and Automation Engineering, 2010, Singapore.

13. S. Khanmohammadi, M. A. Badamchizadeh, K. Rezvani, M. Mirnia, “Multi agv hybrid path planning using Fuzzy Inference Systems,” The 2nd International Conference on Computer and Automation Engineering, 2010, Singapore.

14. S. Ghaemi, S. Khanmohammadi, M. A. Badamchizadeh, “Using Genetic Fuzzy Algorithm for Robot path planning,” The 2nd International Conference on Computer and Automation Engineering, 2010, Singapore.

15. M. A. Badamchizadeh, M. Joroughi, “Deterministic and stochastic Petri net for urban traffic systems,” Computer and Automation Engineering (ICCAE), 2010 The 2nd International Conference on, Vol.5, 364-368, 2010, Singapore.

16. R. M. Asl, F. Hashemzadeh, M. A. Badamchizadeh, “A new adaptive neural network based observer for robotic manipulators,” Robotics and Mechatronics (ICROM), 2015 3rd RSI International Conference on, 663-668, 2015, Iran.

17. I. Hassanzadeh, K. Madani, M. A. Badamchizadeh, “Mobile Robot Path Planning Based on Shuffled Frog Leaping Optimization Algorithm,” Automation Science and Engineering (CASE), 2010 IEEE Conference on, 680-685, 2010, Canada.

18. M. A. Badamchizadeh, A. Haseltalab, "Optimization of Distributed Control Systems Using Information Technology Assets," International Conference on Information and Computer Applications, 2011, Dubai.
19. S. Ghaemi, S. Khanmohammadi, M.A. Tinati, M. A. Badamchizadeh, "Creating a Fuzzy Model for stressful Driver's Behavior," International Conference on Information and Computer Applications, 2011, Dubai.
20. M. A. Badamchizadeh, S. Khanmohammadi, and R. Rangarangi Hokmabad, "Fault Diagnosis of Discrete Event Systems Using Hybrid Petri Nets," International Conference on Information and Computer Applications, 2011, Dubai.
21. Z. Bayat, E. Babaei, M. A. Badamchizadeh, "Low Order Harmonics Elimination in Multilevel Inverters Using Fuzzy Logic Controller Considering the Variations of DC Voltage Sources," International Conference on Electrical Machines and Systems, 2011, China.
22. D. Ashtiani Haghghi, M. Sanatizadeh, S. Khanmohammadi, M. A. Badamchizadeh, S. Ghaemi, "Modeling and Scheduling of Flexible Manufacturing System Using Petri Net and Fuzzy MCDM Approach," The 16th symposium on Artificial Intelligence & Signal Processing, 2012, Iran.
23. M. A. Soltani, M. A. Badamchizadeh, Sh. Soltani, D. Javanray, "Investigation on Revolution Operator in Imperialist Competitive Algorithm," 4th International Conference on Computer and Electrical Engineering, Singapore, 255- 263
24. M. A. Badamchizadeh, S. M. Anvar, "A Real-Time Extended Kalman Filter Based Fast Selective Harmonic Detection," 11th International conference on control. Automation and systems, 785-789, Korea, 2011.
25. S. Barghandan, M. A. Badamchizadeh, "A new approach for designing robust adaptive fuzzy sliding mode controller," Electrical Engineering (ICEE), 2013 21st Iranian Conference on, 1-6, Iran.
26. A. A. Ghavifekr, M. A. Badamchizadeh, G. Alizadeh, A. Arjmandi, "Designing inverse dynamic controller with integral action for motion planning of surgical robot in the presence of bounded disturbances," Electrical Engineering (ICEE), 2013 21st Iranian Conference on, 1-6, Iran.
27. S. Badalkhani, M. A. Badamchizadeh, "A modified technique for 3D camera calibration," Industrial Electronics (ISIE), 2014 IEEE 23rd International Symposium on , 1914-1919, Turkey.
28. A. Jafarifarmand, M. A. Badamchizadeh, H. Seyedarabi, "Evaluation criteria of biological artifacts removal rate from EEG signals," Industrial Electronics (ISIE), 2014 IEEE 23rd International Symposium on, 123-128, Turkey.
29. M. Kouzehgar, M. A. Badamchizadeh, "Fuzzy deception game using ant-inspired meta-heuristics," Industrial Electronics (ISIE), 2014 IEEE 23rd International Symposium on, 134-138, Turkey.

30. N. Nikdel, S. Hassanpour, M. A. Badamchizadeh, "A control approach for five bar linkage manipulator based on imperialist competitive algorithm," Robotics and Mechatronics (ICRoM), 2014 Second RSI/ISM International Conference on, 846-851, 2015, Iran.
31. R. Behinfaraz, M. A. Badamchizadeh, "New approach to synchronization of two different fractional-order chaotic systems," Artificial Intelligence and Signal Processing (AISP), 2015 International Symposium on, 149-153, Iran.
32. R. Behinfaraz, M. A. Badamchizadeh, "Synchronization of different fractional-ordered chaotic systems using optimized active control," Modeling, Simulation, and Applied Optimization (ICMSAO), 6th International Conference on, 1-6, 2015.
33. M. R. Mojallizadeh, M. A. Badamchizadeh, "Fuzzy Terminal Sliding Mode Control for Maximum Power Point Tracking of PV Cells" 30th International Conference on Control, Automation, Robotics and Vision Engineering, 1-5, Rome, Italy 2016.
34. A. A. Ghavifekr, M. A. Badamchizadeh, A.R. Ghiasi, "Evaluation of Three Different Null Space Joint Velocities for a Redundant 5-bar Linkage Manipulator," RW- 58th International Conference on Power Control and Embedded System (ICPCES), 1-5, August 2016, Netherlands.
35. M. Kouzehgar, M. A. Badamchizadeh, "Deceptive Robots- A Fuzzy Approach" 14th Iranian Conference on Fuzzy Systems, 104-110, 2014, Iran.
36. N. Razizadeh, M. A. Badamchizadeh, M. S.G. Ghasempour, "A New GA Based Method for Improving Hybrid Clustering" Electrical Engineering (ICEE), 2013 21st Iranian Conference on, 1-6, Iran.
37. M. A. Badamchizadeh and Y. Shabbouei Hagh, R. Mohammadi Asl," An Approach on Unscented Kalman Filter Based Feedback Linearization Control Method", 6th International Conference on Modeling, Simulation and Applied Optimization, 1-6, Istanbul, Turkey
38. A. Mahmoodi Motlagh, S. Ghasemzadeh, B. Fazli Azar, E. Babaei, M. A. Badamchizadeh, "Design of Nonlinear Adaptive Power Systems Stabilizer Based on Back-Stepping Technique," The 9th International Conference on Technical and Physical Problems of Electrical Engineering, 126-132, Turkey
39. Shabnam Pashaei, Mohammad Ali Badamchizadeh, "Design Fractional-Order Terminal Sliding Mode Control for Synchronization of a Class of Fractional-Order Chaotic Systems with Uncertainty and External Disturbances" The 19th International Conference on Control, Automation and Robotics, 2115-2119, Switzerland
40. Shabnam Pashaei, Mohammad Ali Badamchizadeh, "Design Optimal fractional-order PD controller for a class of fractional-order MIMO systems" The 2nd International Conference on Electrical Engineering, 1-8, Tehran, Iran, 2017

41. Shabnam Pashaei, Mohammad Ali Badamchizadeh, Hamed Kharrati, "Design fractional-order terminal sliding mode controller for a class of fractional-order matched uncertain systems" The 2nd International Conference on Electrical Engineering, 1-15, Tehran, Iran, 2017
42. A.A. Ghavifekr, M.A. Badamchizadeh, A. R. Ghiasi, F. Hasehmzadeh, "Passivity Analysis of Discrete-time Counterparts of the Bilateral Controlled Teleoperation Systems" International Conference On Electrical and Electronics Engineering (ICEEE), 1-5, Istanbul, Turkey, Nov 2017
43. Sara Motarabbesoun, Mohammad Ali Badamchizadeh, Ebrahim Babaei, Mohammad Rasool Mojallizadeh, "Adaptive Passivity-Based Control for Output Voltage Tracking of Single-Inductor Dual-Output Buck Converters" IEEE International Conference on Industrial Technology (IEEE ICIT 2018), 46-50, Lyon, France, Feb. 2018.
44. M.A. Badamchizadeh, F. Jani, "Wavelet-Based Optimal Sliding Mode Controller for Structural Control" International Conference on Power Control and Embedded System, 5-9, Oslo, Norway, Aug. 2018.
45. Aysa Jafarifarmand; Mohammad Ali Badamchizadeh, "Real-time cardiac artifact removal from EEG using a hybrid approach" 12th International Conference BIOMDLORE 2018, 1-5, Bialystok, Poland, June 2018.
46. Haleh Babazadeh; Mohammad Ali Badamchizadeh; Farzad Hashemzadeh, "Switching adaptive controller for regulation of a class of uncertain cascade nonlinear systems" 5th International Conference Electrical Electronics and Industrial Automation, 171-179, Montreal, Canada, August 2019.
47. Reza Behinfaraz, Sehraneh Ghaemi, Sohrab Khanmohammadi, Mohammad Ali Badamchizadeh, "Secure Communication using the synchronization of time-varying complex networks by fuzzy impulsive method" 2019 IEEE East-West Design & Test Symposium (EWDTS), 1-4, Batumi, Georgia, September 2019
48. Nazila Nikdel, Mohammad Ali Badamchizadeh, "Finite-Time Control of a Parallelogram Five-Bar Manipulator Based on Fractional-Order Approach" 9th International Conference on Computer and Knowledge Engineering (ICCKE 2019), Mashhad, Iran, October 2019.
49. Ehsan Aslmostafa, Sehraneh Ghaemi, Mohammad Javad Mirzaei, Mohammad Ali Badamchizadeh, Amir Rikhtegar Ghiasi, "Fuzzy Adaptive Sliding Mode Controller for A Chaotic System with Uncertainties and Disturbances" 6th Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS), Mashhad, Iran, Dec. 2020
50. Mohammad Javad Mirzaei, Ehsan Aslmostafa, Mostafa Asadollahi, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, "Fuzzy Terminal Sliding Mode Control for Finite-time Synchronization of Electrostatic and Electromechanical Transducers" 6th Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS), Mashhad, Iran, Dec. 2020

51. Mohammad Javad Mirzaei, Sehraneh Ghaemi, Ehsan Aslmostafa, Mohammad Ali Badamchizadeh, Mahdi Baradarannia, “Optimal Control for Stochastic 4D Hamiltonian Hyper-chaotic Systems with Periodic and Quasi-periodic Chaos” 6th Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS), Mashhad, Iran, Dec. 2020
52. Sakineh Zeynali Goldar, Amir Rikhtehgar Ghiasi, Mohammad Ali Badamchizadeh, Manouchehr khoshbaten “An ANFIS-PSO Algorithm for Predicting Four Grades of Non-Alcoholic Fatty Liver Disease” 2020 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, June 2020
53. Mohammad Javad Mirzaei, Sehraneh Ghaemi, Ehsan Aslmostafa, Mohammad Ali Badamchizadeh, Mahdi Baradarannia, “Fuzzy Finite-time Consensus Control for Nonlinear Second-order Multi-agent Systems with Disturbances by Integral Sliding Mode” The 7th international conference on Control, Instrumentation and Automation (ICCIA 2020), Tabriz, Iran, Feb. 2020
54. Marzieh Asadi, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, “Continuous nonsingular terminal sliding mode control for mismatched uncertain nonlinear systems using algebraic parameter identification” The 7th international conference on Control, Instrumentation and Automation (ICCIA 2020), Tabriz, Iran, Feb. 2020
55. Ehsan Aslmostafa, Mohammad Javad Mirzaei, Mostafa Asadollahi, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, “Tracking of Two Connected Inverted Pendulum on Carts by Using a Fast Terminal Sliding Mode Control with Fixed-time Convergence” The 7th international conference on Control, Instrumentation and Automation (ICCIA 2020), Tabriz, Iran, Feb. 2020
56. Mahdieh Samadi, Hamed Kharrati, Mohammad Ali Badamchizadeh, Hossein Hassani, Soodeh Nikan, “Diagnosing Faults in Smart Grids Using Liquid Time-Constant Network” the 9th International Conference on Engineering and Emerging Technologies (ICEET), Istanbul, Turkey, Oct. 2023.
57. Arvin Attar, Mohammad Ali Badamchizadeh, Sehraneh Ghaemi, “Designing of Type-2 Fuzzy Formation Controller for A Class Of Nonlinear Multiagent System Using JAYA Algorithm” 32nd International Conference on Electrical Engineering (ICEE 2024), Tehran, Iran, May. 2024
58. Mahdi Mansoury , Mohammad Ali Badamchizadeh , Hamed Kharrati, “Stochastic model predictive control based on online learning for a class of nonlinear constrained systems” 32nd International Conference on Electrical Engineering (ICEE 2024), Tehran, Iran, May. 2024
59. Soheil Sheikh Ahmadi, Farzad Hashemzadeh, Mohammad Ali Badamchizadeh, “Observer-Based Controller for impulsive switched systems with uncertain inputs” 33rd International Conference on Electrical Engineering (ICEE 2025), Isfahan, Iran, May. 2025
