

Position:

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Professor of Control Engineering

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Research Interests:

- Nonlinear Control
- Fuzzy Control
- Robotics
- Intelligent Systems

Teaching Experiences:

1. Nonlinear Control
2. Fuzzy Control
3. Robot Control
4. Electric Motor Control
5. Linear Control
6. Robotics
7. Advanced Robotics
8. Robot Kinematics and Dynamics
9. Actuators
10. Robot Sensors
11. Robot Sensors and Calibration
12. Advanced Instrumentation
13. Power Electronics & Drives
14. Electrical Circuits

Awards:

Superior Researcher in Shahrood University of Technology

2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017

Superior academic member in University of Shahrood in 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018.

Contribution Award from International Journal of Control, Automation, and Systems

Professional & Scientific Membership:

Member of Center of Excellence in Robust and Intelligent Systems

Member of Editorial Board: Journal of Intelligent Systems in Electrical Engineering

Education

Ph.D.: Control Engineering (Robotics), 2001,

Department of Electronics and Computer Science,
University of Southampton, Southampton, U.K.
Supervisors: Prof. R.M. Crowder and Prof. P.H. Chappell
Thesis Title: End Effector Design and Control

M.Sc.: Electrical Engineering (Power System), 1991,

Department of Electrical Engineering,
Tarbiat Modarres University, Tehran, Iran.
Supervisor: Prof. Hosein Saifi
Project: Design of a Power System by Computer.

B.Sc.: Electrical Engineering, 1988,

Department of Electrical Engineering,
Isfahan University of Technology, Isfahan, Iran.
Supervisor: Dr. Akbar Ebrahimi
Project: Transient Analysis and Simulation of a Multi-Machine System.

Supervised Ph.D. Students

- [1] Dr. Seyed Mohammad Ahmadi, Ph.D. in Control Engineering, Thesis: Taylor series based control of robot manipulators, 2017.
- [2] Dr. Saeed Khorashadizadeh, Ph.D. in Control Engineering, Thesis: Uncertainty estimation in robust control of robot manipulators, 2015.
- [3] Dr. Siamak Azargoshasb, Ph.D. in Control Engineering, Thesis: Discrete adaptive fuzzy control of a robot manipulator, 2014.
- [4] Dr. Majid Moradi Zirkohi, Ph.D. in Control Engineering, Thesis: Designing an intelligent type 2 fuzzy controller for flexible-joint robots, 2013.
- [5] Dr. Alireza Izadbakhsh, Ph.D. in Control Engineering, Thesis: Robust control of flexible-joints robots in the task-space, 2013.
- [6] Dr. Mohammad Reza Soltanpour, Ph.D. in Control Engineering, Thesis: Robust nonlinear control of robot manipulators in the task-space, 2009.

Supervised M.Sc. Students

- [1] Yaser Zamandari, Optimization of robot control using intelligent algorithms based on voltage control strategy, 2017.
- [2] Aliasghar Rezaei, Adaptive control of a flexible-joints robotic manipulator using voltage control strategy, 2017.

- [3] Maryam Rasooli, Back-stepping control of a robotic manipulator using voltage control strategy, 2017.
- [4] Amir Kardgar, Supervisory fuzzy control of a robot manipulator using voltage control strategy, 2017.
- [5] Bahram Rahmati, Designing a sliding-mode adaptive fuzzy control of a robot manipulator based on the voltage control strategy, 2016.
- [6] Maral Goodarzi, Designing fuzzy control of a robotic manipulator based on guaranteed stability, 2016.
- [7] Alireza Banifatemi, Adaptive fuzzy terminal sliding mode discrete control of a robot manipulator, 2016.
- [8] Qholamreza Nazmara, Model reference adaptive impedance control of robot manipulators using voltage control strategy, 2016.
- [9] Hossain Hagiani, Intelligent adaptive impedance control of a robotic hand therapy, 2016.
- [10] Sareh Ahmadi, M.Sc. in Control Engineering, Thesis: Controlling a flexible-joint robot by compensating the flexibility effect, 2016.
- [11] Samane Adel, M.Sc. in Control Engineering, Thesis: Adaptive fuzzy control of a semi-active suspension system equipped by a magnetorheological damper, 2016.
- [12] Mohammad Ali Daneshpajouh, M.Sc. in Control Engineering, Thesis: Control of nonlinear dynamic interaction of robot manipulators, 2015.
- [13] Majid Moghtadaei, M.Sc. in Control Engineering, Thesis: Robust adaptive control of robotic manipulators using gradient descent method, 2015.
- [14] Hosein Asrari, M.Sc. in Control Engineering, Thesis: Adaptive fuzzy sliding mode control of a robotic manipulator in task-space using voltage control strategy, 2014.
- [15] Majid Abedinzadeh-Shahri, M.Sc. in Robotic Engineering, Thesis: Adaptive fuzzy tracking control of a wheeled mobile manipulator using voltage control strategy, 2014.
- [16] Seyyed-Reza Mohammadi, M.Sc. in Mechatronic Engineering, Impedance fuzzy control of a rehabilitation robot using voltage control strategy, 2014.
- [17] Mohammad Baradranfard, M.Sc. in Control Engineering, Thesis: Hybrid impedance control of robot manipulators using voltage control strategy, 2014.
- [18] Mostafa Akhiani, M.Sc. in Control Engineering, Thesis: Impedance adaptive fuzzy control of robot manipulator using voltage control strategy, 2014.

- [19] Javad Keighobadi, M.Sc. in Control Engineering, Thesis: Robust fuzzy control of an electrically driven single-wheel robot, 2014.
- [20] Ehsan Hoseini, M.Sc. in Control Engineering, Thesis: Impedance adaptive fuzzy control of an active suspension system, 2014.
- [21] Vahab Khoshdel, M.Sc. in Mechatronic Engineering, Thesis: Impedance control of a lower-limb rehabilitation robot, 2013.
- [22] Seyed Mohammad Ahmadi, M.Sc. in Mechatronic Engineering, Thesis: Robust position control of electrically driven robot manipulators using estimation and compensation of uncertainty, 2013.
- [23] Zohre Safarcharati, M.Sc. in Control Engineering, Thesis: Designing a fuzzy controller for a flexible-joint robot manipulator using a PSO algorithm, 2013.
- [24] Mahdi Souzanchikashani, M.Sc. in Control Engineering, Thesis: Adaptive fuzzy control of flexible-joint robot manipulators, 2013.
- [25] Ali Asghar Arab, M.Sc. in Control Engineering, Thesis: Robust tracking control of a mobile robot using voltage control strategy, 2013.
- [26] Atefe Sakaki, M.Sc. in Control Engineering, Thesis: Discrete nonlinear control of a hydraulic suspension system, 2013.
- [27] Hamidreza Parsinejad, M.Sc. in Mechatronic Engineering, Thesis: Fuzzy position control of robot manipulator driven by electric motors using voltage control strategy, 2013.
- [28] Mahdi Sadeghijaleh, M.Sc. in Control Engineering, Thesis: Position control of robot manipulators driven by permanent magnet synchronous motors, 2012.
- [29] Maryam Baluchzadeh, M.Sc. in Control Engineering, Thesis: Optimal repetitive control of robot manipulators using voltage control strategy, 2012.
- [30] Sara Fateh, M.Sc. in Control Engineering, Thesis: Adaptive fuzzy control of robot manipulators using voltage control strategy, 2012.
- [31] Mohammad Mohsen Neishabouri, M.Sc. in Control Engineering, Thesis: Fuzzy impedance control of a magnetic levitation system, 2012.
- [32] Mohaddeseh Amerian, M.Sc. in Control Engineering, Thesis: Fuzzy impedance control of elevator suspension system, 2012.
- [33] Saeed Khorashadizadeh, M.Sc. in Control Engineering, Thesis: Optimal nonlinear control of the spherical robot manipulator, 2011.

- [34] Fatemeh Afsharnia, M.Sc. in Control Engineering, Thesis: Chattering reduction in sliding mode control of robot manipulators using filters, 2011.
- [35] Amir Alizadeh, M.Sc. in Control Engineering, Thesis: Design and nonlinear control of the spherical robot manipulator, 2011.
- [36] Hamid Esfidani, M.Sc. in Control Engineering, Thesis: PWM fuzzy control of robot manipulators, 2011.
- [37] Mansoore Qhooshe, M.Sc. in Control Engineering, Thesis: Adaptive fuzzy control of robot manipulators using gradient descent training, 2010.
- [38] Mehdi Ziaefar, M.Sc. in Control Engineering, Thesis: Fuzzy control of the gas metal arc welding system, 2009.
- [39] Azita Azarfar, M.Sc. in Control Engineering, Thesis: Adaptive fuzzy control of a Puma 560 Robot, 2009.
- [40] Arash Khatamianfar, M.Sc. in Control Engineering, Thesis: Sliding mode control of the gas metal arc welding system, 2008.
- [41] Shahab Shahrabi Farahani, M.Sc. in Control Engineering, Thesis: Nonlinear control of robotic gas metal arc welding system, 2008.
- [42] Majid Moradi Zirkuhi, M.Sc. in Control Engineering, Thesis: Adaptive impedance control of an active suspension system, 2008.
- [43] Mohammad Reza Hosaini Masoom, M.Sc. in Control Engineering, Thesis: Consideration of singularities in robot control, 2008.
- [44] Alireza Izadbakhsh, M.Sc. in Control Engineering, Thesis: Feedback linearization control of the Puma560 robot for transferring objects, 2007.
- [45] Majid Sehhati Yazdi, M.Sc. in Control Engineering, Thesis: Design, constructing and computed torque control of a laboratory SCARA robot, 2007.
- [46] Hasan Farhangfard, M.Sc. in Control Engineering, Thesis: Reducing the effect of Jacobian error in the robot control, 2006.
- [47] Seyyed Sina Alavi, M.Sc. in Control Engineering, Thesis: Fuzzy impedance control of an active suspension system, 2006.
- [48] Leila Fallah Iraqi, M.Sc. in Control Engineering, Thesis: Fuzzy control of a two-link robot, 2005.

- [49] Mazdak Teimoortashloo, M.Sc. in Control Engineering, Thesis: Fuzzy impedance control of a two-fingered robot hand, 2005.
- [50] Fateme Tahmasebi, M.Sc. in Control Engineering, Thesis: Modeling of inverse 2D Magneto telluric using artificial neural networks, 2004.
- [51] Alireza Maghsoodlo, M.Sc. in Control Engineering, Thesis: Design and simulation of the predictive control for antilock brake system, 2004.
- [52] Farnaz Sabahi, M.Sc. in Control Engineering, Thesis: Robot force control using neural networks, 2004.

Journal Papers

- [1] G. Nazmara, M. M. Fateh, SM Ahmadi, [A model-reference impedance control of robot manipulators using an adaptive fuzzy uncertainty estimator](#), *Int. J. Comput. Intell. Syst.* 11, 979-990, 2018. [ISI](#), [Impact Factor: 1.89](#).
- [2] R. Gholipour, M. M. Fateh, [Adaptive task-space control of robot manipulators using the Fourier series expansion without task-space velocity measurements](#), *Measurement*, 123, 285-292, 2018. [ISI](#), [Impact Factor: 2.218](#).
- [3] S. Ahmadi, M. M. Fateh, Control of flexible joint robot manipulators by compensating flexibility, *Iranian Journal of Fuzzy Systems*, 15 (4), 57-71, 2018. [ISI](#), [Impact Factor: 1.27](#).
- [4] M. R. Shokoohinia, M. M. Fateh, [Robust dynamic sliding mode control of robot manipulators using the Fourier series expansion](#), *Transactions of the Institute of Measurement and Control*, 15 Oct 2018. [ISI](#), [Impact Factor: 1.579](#).
- [5]
- [6] S. M. Ahmadi, **M. M. Fateh**, Task-space asymptotic tracking control of robots using a direct adaptive Taylor series controller, *Journal of Vibration and Control*, Published online: 23 Feb 2018. [ISI](#), [Impact Factor: 2.101](#).
- [7] S. M. Ahmadi, **M. M. Fateh**, Task-space control of robots using an adaptive Taylor series uncertainty estimator, *International Journal of Control*, Published online: 31 Jan 2018. [ISI](#), [Impact Factor: 2.208](#).
- [8] M. Moradi Zirkohi, **M. M. Fateh**, Adaptive type-2 fuzzy estimation of uncertainties in the control of electrically driven flexible-joint robots, *Journal of Vibration and Control*, 23 (9), 1535-1547, 2017. [ISI](#), [Impact Factor: 2.101](#).
- [9] M. Sadeghijaleh, M.M. Fateh, Adaptive voltage-based control of direct-drive robots driven by permanent magnet synchronous motors, *International Journal of Engineering, Transactions A: Basics*, 30 (4), 507-515, 2017. [SCOPUS](#).

- [10] M. Souzanchi-K, A. Arab, M. Akbarzadeh-T., **M. M. Fateh**, Robust Impedance Control of Uncertain Mobile Manipulators Using Time-Delay Compensation, IEEE Transactions on Control Systems Technology, Published online: 30 August 2017. [ISI, Impact Factor: 3.882.](#)
- [11] S. Khorashadizadeh, **M. M. Fateh**, Uncertainty estimation in robust tracking control of robot manipulators using Fourier series expansion, *Robotica*, 35(2) 310-336, 2017, [ISI, Impact Factor: 1.554.](#)
- [12] Z. Ghassemi Zahan, A. AkbarZadeh Kalat, **M. M. Fateh**, Robust Adaptive Impedance Control in Scara Robot Manipulator for Robotic Cell Injection, *Journal of Modares Mechanical Engineering*, 16(12) 637-647, 2017 (in Persian), [ISC](#).
 زینب قاسمی زهان، علی اکبرزاده کلات، محمدمهدی فاتح، کنترل امپدانس تطبیقی مقاوم بازوی ربات اسکارا با رویکرد تزریق سلولی رباتیکی،
 مجله مهندسی مکانیک مدرس، دوره ۱۶، شماره ۱۲، اسفند ۱۳۹۵، صفحه ۶۳۷-۶۴۷
- [13] J. Esmaili, H.A. Tehrani, **M.M. Fateh**, Control of fractional periodic discrete-time linear systems by parametric state feedback matrices, *Nonlinear Dynamics*, 87 (2), 1413-1425, 2017, [ISI, Impact Factor: 2.489.](#)
- [14] S.M. Ahmadi, **M.M. Fateh**, Robust control of electrically driven robots using adaptive uncertainty estimation, *Computers & Electrical Engineering*, 56, 674-687, 2016, [ISI, Impact Factor: 1.084.](#)
- [15] S.M.H. Zadeh, S. Khorashadizadeh, **M.M. Fateh**, M. Hadadzarif, Optimal sliding mode control of a robot manipulator under uncertainty using PSO, *Nonlinear Dynamics*, 84 (4), 2227-2239, 2016. [ISI, Impact Factor: 2.489](#)
- [16] J. Esmaili, H. A. Tehrani, **M. M. Fateh**, Control of fractional periodic discrete-time linear systems by partial eigenvalue assignment of state feedback matrices, *International Journal of Applied and Computational Mathematics*, pp 1-13, First online: 18 April 2016.
- [17] **M. M. Fateh**, M. Baluchzadeh, Discrete-time repetitive optimal control: Robotic manipulators, *Journal of AI and Data Mining*, 4(1) 117-124, 2016, [ISC](#).
- [18] V. Khoshdel, **M. M. Fateh**, Robust impedance control of a lower limb rehabilitation robot using fuzzy parameters, *Journal of Solid and Fluid Mechanics*, 4(5) 83-95, 2016.
 وهاب خوشدل، محمد مهدی فاتح، کنترل امپدانس مقاوم ربات توانبخشی زانو با ضرایب فازی، مجله علمی پژوهشی مکانیک سازه ها و شاره ها،
 دوره ۵، شماره ۴، زمستان ۱۳۹۴، صفحه ۸۳-۹۵
- [19] **M. M. Fateh**, H. Asrari, S. Khorashadizadeh, Adaptive fuzzy sliding mode control of a robotic manipulator in task-space using voltage control strategy, *Journal of Solid and Fluid Mechanics*, 5(3) 17-26, 2015 (In Persian), [ISC](#)

محمد مهدی فاتح، حسین اسراری، سعید خراشادی زاده، کنترل حالت لغزشی فازی تطبیقی بازوی رباتیک در فضای کار با راهبرد کنترل ولتاژ،
مجله علمی پژوهشی مکانیک سازه ها و شاره ها، دوره ۵، شماره ۳، پاییز ۱۳۹۴، صفحه ۱۷-۲۶.

[20] A. Arab, **M. M. Fateh**, An uncertainty compensator for robust control of wheeled mobile robots, *Advanced Robotics*, 29(20), 1303-1313, 2015. [ISI](#), [Impact Factor: 0.572](#).

[21] **M. M. Fateh**, M. Sadeghijaleh, Voltage control strategy for direct-drive robots driven by permanent magnet synchronous motors, *IJE TRANSACTIONS B: Applications* 28(5), 709-716, (May 2015). [SCOPUS](#).

[22] **M. M. Fateh**, S. Azargoshasb, Discrete time robust control of robot manipulators in the task space using adaptive fuzzy estimator, *Journal of AI and Data Mining*, 3(1), 113-120, 2015. [ISC](#).

[23] **M. M. Fateh**, M. Abedinzadeh Shahri, Adaptive fuzzy control of a mobile manipulator, *Journal of Solid and Fluid Mechanics*, 5(2) 17-27, 2015 (In Persian), [ISC](#).

محمد مهدی فاتح، مجید عابدین زاده شهری، کنترل فازی تطبیقی بازوی رباتیک سیار، مجله علمی پژوهشی مکانیک سازه ها و شاره ها، دوره ۵، شماره ۲، تابستان ۱۳۹۴، صفحه ۱۷-۲۷.

[24] **M. M. Fateh**, V. Khoshdel, Voltage-based adaptive impedance force control for a lower-limb rehabilitation robot, *Advanced Robotics*, 29(15) 961-971, 2015. [ISI](#), [Impact Factor: 0.572](#).

[25] **M. M. Fateh**, J. Keighobadi, R. Rezvanian Noqondar, Adaptive fuzzy control of an electrical single-wheel robot, *Journal of Solid and Fluid Mechanics*, 5(1) 61-75, 2015 (In Persian), [ISC](#).

محمد مهدی فاتح، جواد کیقبادی، رضا رضوانیان نقندر، کنترل فازی تطبیقی ربات تک چرخ الکتریکی، مجله علمی پژوهشی مکانیک سازه ها و شاره ها، دوره ۵، شماره ۱، بهار ۱۳۹۴، صفحه ۶۱-۷۵.

[26] **M. M. Fateh**, A. Sakaki, Model-free control for a vehicle hydraulic suspension system, *Journal of Solid and Fluid Mechanics*, 4(4) 13-21, 2015 (In Persian), [ISC](#).

محمد مهدی فاتح، عاطفه سکاکی، کنترل آزاد از مدل برای سیستم تعلیق روغنی خودرو، مجله علمی پژوهشی مکانیک سازه ها و شاره ها، دوره ۴، شماره ۴، زمستان ۱۳۹۳، صفحه ۱۳-۲۱.

[27] **M. M. Fateh**, V. Khoshdel, Robust impedance control of a lower-limb rehabilitation robot using fuzzy parameters, *Journal of Solid and Fluid Mechanics*, Accepted 2015 (In Persian), [ISC](#).

محمد مهدی فاتح، وهاب خوشدل، کنترل امپدانس مقاوم ربات توان بخش زانو با ضرایب فازی، مجله علمی پژوهشی مکانیک سازه ها و شاره ها، پذیرش ۱۳۹۳-۱۰-۰۲.

- [28] S. Khorashadizadeh, **M. M. Fateh**, Robust task-space control of robot manipulators using Legendre polynomials, *Nonlinear Dynamics*, 79(2) 1151-1161, 2015. [ISI](#), [Impact Factor: 2.489](#).
- [29] H. Ahmadi, H. Esmaeeli, **M. M. Fateh**, Slip compensation of grasped objects in robot gripper, *Modares Mechanical Engineering*, 15(1) 151-162, 2015 (In Persian), [ISC](#).
حبيب احمدی، هانیه اسماعیلی، محمد مهدی فاتح، جبران سازی لغزش رخ داده در گرفتن اجسام توسط پنجه ربات، مجله مهندسی مکانیک مدرس، دوره ۱۵، شماره ۱، فروردین ۱۳۹۴، صفحه ۱۵۱-۱۶۲.
- [30] **M. M. Fateh**, M. Soozanchikashani, Indirect adaptive fuzzy control for flexible-joint robot manipulators using voltage control strategy, *Journal of Intelligent and Fuzzy Systems*, 28(3)1451-1459, 2015. [ISI](#), [Impact Factor: 1.812](#).
- [31] S. M. Alavinia, M. A. Sadrnia, M. J. Khosrowjerdi, H. Kheiri, **M. M. Fateh**, An algebraic approach to fault detection for surge avoidance in turbo compressor, *Journal of Engineering for Gas Turbines and Power*, 137(2): 022601-8 pages, FEBRUARY 2015, [ISI](#), [Impact Factor: 0.804](#).
- [32] **M. M. Fateh**, A. A. Arab, Robust control of a wheeled mobile robot by voltage control strategy, *Nonlinear Dynamics*, 79(1) 335-348, 2015. [ISI](#), [Impact Factor: 2.489](#).
- [33] F. Solaimannouri; M. Haddad Zarif, **M. M. Fateh**, Designing an adaptive fuzzy control for robot manipulators using PSO, *Journal of AI and Data Mining*, 2(2) 31-39, 2014, [ISC](#).
- [34] **M. M. Fateh**, S. M. Ahmadi, Robust control of robotic manipulators using an adaptive neural network estimator of uncertainty, *Journal of Solid and Fluid Mechanics*, 4(2) 1-12, 2014 (In Persian), [ISC](#).
محمد مهدی فاتح، سید محمد احمدی، کنترل مقاوم بازوهای رباتیک با بکارگیری تخمین گر تطبیقی عصبی عدم قطعیت، مجله علمی پژوهشی مکانیک سازه ها و شاره ها، دوره ۴، شماره ۲، تابستان ۱۳۹۳، صفحه ۱-۱۲.
- [35] **M. M. Fateh**, S. Azargoshasb, Discrete-time indirect adaptive fuzzy control for robot manipulators, *International Journal of Intelligent Computing and Cybernetics*, 7(4) 382-396, 2014. [SCOPUS](#).
- [36] **M. M. Fateh**, E. Hoseini, Impedance adaptive control of an active suspension system, *Journal of Solid and Fluid Mechanics*, 4(3) 11-21, 2014 (In Persian). [ISC](#),
محمد مهدی فاتح، احسان حسینی، کنترل تطبیقی امیدانس سیستم تعلیق فعال خودرو، مجله علمی پژوهشی مکانیک سازه ها و شاره ها، دوره ۴، شماره ۳، پاییز ۱۳۹۳، صفحه ۱۱-۲۱.
- [37] A Izadbakhsh, **M. M. Fateh**, Real-time robust adaptive control of robots subjected to actuator voltage constraint, *Nonlinear Dynamics*, 78(3) 1999-2014, 2014. [ISI](#), [Impact Factor: 2.419](#).

- [38] **M. M. Fateh**, S. Azargoshasb, Discrete adaptive fuzzy control for asymptotic tracking of robotic manipulators, *Nonlinear Dynamics*, 78(3), 2195-2204, 2014. [ISI, Impact Factor: 2.419.](#)
- [39] A. A. Arab, **M. M. Fateh**, S.M.R. Yazdanparast, Design and implement of fuzzy control of a robotic camera for target tracking, *Journal of Solid and Fluid Mechanics*, 4(1) 1-10, 2014 (In Persian), [ISC](#).
 علی اصغر عرب، محمد مهدی فاتح، سید محمد رضا یزدان پرست، طراحی و پیاده سازی کنترل فازی دوربین رباتیک جهت ردگیری هدف، مجله علمی پژوهشی مکانیک سازه ها و شماره ها، دوره ۴، شماره ۱، بهار ۱۳۹۳، صفحه ۱-۱۰.
- [40] S. M. Alavinia, M. A. Sadrnia, M. J. Khosrowjerdi, **M. M. Fateh**, Stable and efficient operation of gas compressor with improving of surge detection system, *Journal of Engineering for Gas Turbines and Power*, 136(10) 102602-10 pages, 2014. [ISI, Impact Factor: 0.788.](#)
- [41] S. M. Alavinia, M. A. Sadrnia, M. J. Khosrowjerdi, **M. M. Fateh**, Robust fault detection to determine compressor surge point via dynamic neural network-based subspace identification technique, *Journal of Engineering for Gas Turbines and Power*, 136(8), 082602-8 pages, 2014. [ISI, Impact Factor: 0.788.](#)
- [42] S. M. Alavinia, M. A. Sadrnia, M. J. Khosrowjerdi, **M. M. Fateh**, Fault tolerant control system design based on virtual sensor for determining of surge point in industrial compressors, *Journal of Solid and Fluid Mechanics*, 4(3) 93-108, 2014, [ISC](#). In Persian.
 سید مهدی علوی نیا، محمد علی صدر نیا، محمد جواد خسروجردی، محمد مهدی فاتح، طراحی سیستم کنترل تحمل پذیر عیب مبتنی بر حسگر مجازی جهت تعیین دقیق نقطه سرج در کمپرسور های صنعتی، مجله علمی پژوهشی مکانیک سازه ها و شماره ها، دوره ۴، شماره ۳، پاییز ۱۳۹۳، صفحه ۹۳-۱۰۸.
- [43] **M. M. Fateh**, A. A. Arab, Voltage control strategy for an uncertain mobile robot, *International Journal of Intelligent Computing and Cybernetics*, 7(4) 436-452, 2014, [SCOPUS](#).
- [44] A. Izadbakhsh, **M. M. Fateh**, Robust Lyapunov-based control of flexible-joint robots using voltage control strategy, *Arabian Journal for Science and Engineering*, 39(4) 3111 – 3121, 2014. [ISI, Impact Factor: 0.367.](#)
- [45] **M. M. Fateh**, S. M. Ahmadi, S. Khorashadizadeh, Adaptive RBF network control for robot manipulators, *Journal of AI and Data Mining*, 2(2) 65-72, 2014. [ISC](#).
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