

TITLE	YEAR
<p>Robust H_{∞} Controller design based on Generalized Dynamic Observer for Uncertain Singular system with Disturbance</p> <p>SM Saeed Jalali, A Akbarzadeh Kalat Journal of Control 15 (1), 51-66</p>	2021
<p>An adaptive back-stepping control for blood glucose regulation in type 1 diabetes</p> <p>S Sepasi, AA Kalat, M Seyedabadi Biomedical Signal Processing and Control 66, 102498</p>	2021
<p>Performance analysis of a DC microgrid as a virtual synchronous machine in grid frequency and voltage control</p> <p>F Shourkeshti, M Banjaad, M Hoseintabar Marzebali, A Akbarzadeh Kalat Computational Intelligence in Electrical Engineering 12 (1), 15-36</p>	2021
<p>Observer-based adaptive control for HIV infection therapy using the Baskakov operator</p> <p>A Izadbakhsh, AA Kalat, S Khorashadizadeh Biomedical Signal Processing and Control 65, 102343</p>	2021
<p>Robust output feedback adaptive sliding mode control for a class of uncertain nonlinear systems using robust adaptive fuzzy observer</p> <p>A Akbarzadeh Kalat, V Mokhtari Iranian Journal of Fuzzy Systems 18 (1), 171-183</p>	2021
<p>A robust state estimation for a class of uncertain linear time-invariant descriptor systems</p> <p>SM Saeed Jalali, A Akbarzadeh Kalat Asian Journal of Control</p>	2020
<p>An Observer-Based Robust Adaptive Fuzzy Back-Stepping Control of Ball and Beam System</p> <p>F Rahbar, AA Kalat Arabian Journal for Science and Engineering 45 (3), 1397-1409</p>	2020
<p>Adaptive back-stepping cancer control using Legendre polynomials</p> <p>S Khorashadizadeh, A Akbarzadeh Kalat IET systems biology 14 (1), 8-15</p>	2020
<p>Radial pole path approach for fast response of affine constrained nonlinear systems with matched uncertainties</p> <p>M Kaheni, M Hadad Zarif, A Akbarzadeh Kalat, L Chisci International Journal of Robust and Nonlinear Control 30 (1), 142-158</p>	2020
<p>Indirect adaptive fuzzy control of nonlinear descriptor systems</p> <p>NF Shamloo, AA Kalat, L Chisci European Journal of Control 51, 30-38</p>	2020
<p>Radial pole paths SVSC for linear time invariant multi input systems with constrained inputs</p> <p>M Kaheni, M Hadad Zarif, A Akbarzadeh Kalat, MS Fadali Asian Journal of Control 22 (1), 547-555</p>	2020
<p>Pole Path Assignment of Constrained SISO Affine Nonlinear Systems</p> <p>M Kaheni, MH Zarif, AA Kalat, MS Fadali Iranian Journal of Science and Technology, Transactions of Electrical ...</p>	2019
<p>Direct Adaptive Fuzzy Control of Nonlinear Descriptor Systems</p> <p>NF Shamloo, AA Kalat, L Chisci International Journal of Fuzzy Systems 21 (8), 2588-2599</p>	2019

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A robust direct adaptive fuzzy control for a class of uncertain nonlinear MIMO systems AA Kalat Soft Computing 23 (19), 9747-9759	2019
Synchronization adaptive fuzzy gain scheduling PID controller for a class of MIMO nonlinear systems HF Ghavidel, AA Kalat International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems ...	2019
Tracking Error-Based Self-tuning Controller AA Kalat Iranian Journal of Science and Technology, Transactions of Electrical ...	2019
Soft variable structure control of linear systems via desired pole paths M Kaheni, MH Zarif, AA Kalat, MS Fadali Information Technology and Control/Informacinės technologijos ir valdymas 47 ...	2018
Primary control design based on capacity curves for inverter-based microgrids HH Kordkheili, M Banejad, JM Guerrero, AA Kalat Electric Power Components and Systems 46 (10), 1147-1159	2018
Robust feedback linearization for input-constrained nonlinear systems with matched uncertainties M Kaheni, MH Zarif, AA Kalat, L Chisci 2018 European Control Conference (ECC), 2947-2952	2018
Hybrid control strategy applied to chaos synchronization: new control design and stability analysis A Alfi, AA Kalat, F Farrokhnejad International Journal of Dynamics and Control 6 (2), 809-816	2018
Direct-lyapunov-based control scheme for voltage regulation in a three-phase islanded microgrid with renewable energy sources HH Kordkheili, M Banejad, AA Kalat, E Pouresmaeil, JPS Catalão Energies 11 (5), 1161	2018
Adaptive fuzzy back-stepping control of drug dosage regimen in cancer treatment H Nasiri, AA Kalat Biomedical Signal Processing and Control 42, 267-276	2018
Improved Hierarchical Multi-loop Voltage Control based on droop control for Inverter-based DG Units in an Islanded Microgrid H Hosseini Kordkheili, M Banjaad, A Akbarzadeh Kalat Computational Intelligence in Electrical Engineering 8 (4), 45-62	2018
Robust composite adaptive fuzzy identification control of uncertain MIMO nonlinear systems in the presence of input saturation HF Ghavidel, AA Kalat Arabian Journal for Science and Engineering 42 (12), 5045-5058	2017
Robust control for MIMO hybrid dynamical system of underwater vehicles by composite adaptive fuzzy estimation of uncertainties HF Ghavidel, AA Kalat Nonlinear Dynamics 89 (4), 2347-2365	2017
Observer-Based robust adaptive fuzzy approach for current control of robot manipulators by estimation of uncertainties H Fallah Ghavidel, A Akbarzadeh Kalat, V Ghorbani Modares Mechanical Engineering 17 (6), 286-294	2017
Adaptive control strategy of four-leg active power filter with LCL grid filter S Sedghi, A Dastfan, A Ahmadyfard, AA Kalat 2017 8th Power Electronics, Drive Systems & Technologies Conference (PEDSTC ...	2017

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کنترل امپدانس تطبیقی مقاوم بازوی ربات اسکارا با رویکرد تزریق سلولی رباتیکی فاسمی زهان, اکبرزاده کلات, علی, فاتح مهندسی مکانیک مدرس 16 (12), 637-647	2017
کنترل مد لغزشی مقاوم تطبیقی کوادروتور در حضور اغتشاش باد متحدی, علی, کلات, علی اکبر زاده Modares Mechanical Engineering 16 (12)	2017
Robust adaptive impedance control in scara robot manipulator for robotic cell injection ZZ GHASSEMI, KALI AKBARZADEH, MM FATEH Modares Mechanical Engineering 16 (12), 637-647	2017
Observer-based robust composite adaptive fuzzy control by uncertainty estimation for a class of nonlinear systems HF Ghavidel, A Akbarzadeh Kalat Neurocomputing	2017
Observer-based hybrid adaptive fuzzy control for affine and nonaffine uncertain nonlinear systems HF Ghavidel, A Akbarzadeh Kalat Neural Computing and Applications, 1-16	2017
An indirect adaptive neuro-fuzzy speed control of induction motors M Vahedi, M Hadad Zarif, A Akbarzadeh Kalat Journal of AI and Data Mining 4 (2), 243-251	2016
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Self-tuning Adaptive Control of a Four Wire PV system as Grid-connected Inverter and Active Power Filter S Sedghi, A Dastfan, A Ahmadyfard, A Akbarzadeh Kalat The 3 rd International Conference and Exhibition on Solar Energy, 1-6	2016
Adaptive robust sliding mode control of quadrotor in the presence of wind/disturbance A Mottahedi, A Akbarzadeh Kalat Modares Mechanical Engineering, (in Persian). 16 (12)	2016
Observer-Based Robust Indirect Adaptive Fuzzy Control of Antilock Braking System Using Road Conditions Estimation M Hosseinpour, A Akbarzadeh Kalat Journal of Control,(in Persian) 1 (1)	2016
Gravity gradiometry positioning system based on neuro-fuzzy modeling S Rahmati, K Kianfar, A Akbarzadeh Kalat Gyroscopy and Navigation 6 (1), 16-24	2015
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Speed control of induction motors using neuro-fuzzy dynamic sliding mode control M Vahedi, M Hadad Zarif, A Akbarzadeh Kalat Journal of Intelligent & Fuzzy Systems 29 (1), 365-376	2015
Adaptive H-infinity Filter Design for Implementing on Battery State-of-Charge Estimation Based on Fuzzy Modeling M Charkhgard, MH Zarif, AA Kalat	2014
Adaptive fuzzy sliding mode control for synchronization of uncertain non-identical chaotic systems using bacterial foraging optimization A Alfi, A Akbarzadeh Kalat, MH Khooban Journal of Intelligent & Fuzzy Systems 26 (5), 2567-2576	2014

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<p>Robust Adaptive Control of Robot Manipulators M Souzanchikashani, A Akbarzadeh Kalat, A Arab First RSI/ISM International Conference on Robotics and Mechatronics, Sharif ...</p>	2013
<p>An Optimal Adaptive Flight Control System M Vahedi, A Akbarzadeh Kalat, M Hadad Zarif International Journal of Machine Learning and Computing 3 (1), 35-38</p>	2013
<p>A robust adaptive method to control the crushing mill machine H Behzad, S Khorashadizadeh, A Akbarzadeh Kalat Control, Instrumentation and Automation (ICCIA), 2011 2nd International ...</p>	2011
<p>A robust anti-windup control design for electrically driven robots—theory and experiment A Izadbakhsh, A Akbarzadeh Kalat, MM Fateh, MR Rafiei International Journal of Control, Automation and Systems 9 (5), 1005</p>	2011
<p>Neuro-fuzzy-discrete sliding mode control of a tree-link SCARA robot SS Majidabad, A Akbarzadeh Kalat, HT Shandiz Electrical Engineering (ICEE), 2011 19th Iranian Conference on, 1-6</p>	2011
<p>Auto-tuning Smith-Predictive Control of Three-Tanks System Based on Model Reference Adaptive System SM Alavi, A Akbarzadeh Kalat, A Farughian Control, Instrumentation and Automation (ICCIA), 2011 2nd International ...</p>	2011
<p>Damping of Low Frequency Oscillations in power systems with neuro-fuzzy UPFC controller N Talebi, A Akbarzadeh Kalat Environment and Electrical Engineering (EEEIC), 2011 10th International ...</p>	2011
<p>Design of radial basis function network using adaptive particle swarm optimization M Moradi Z., MM Fateh, A Akbarzadeh Kalat Journal of Software Engineering and Applications 3, 704-708</p>	2010
<p>کنترل فازی تطبیقی غیر مستقیم مقاوم سیستم ترمز ضد قفل مبتنی بر رویگر با استفاده از تخمین مشخصات جاده حسین پور محمد، اکبرزاده کلات علی کنترل 10 (1)، 49-37</p>	