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Assistant Professor

College: Faculty of Electrical and Computer Engineering

Department: Electrical Engineering - Control

Education

Degree	Graduated in	Major	University
BSc	2005	Control Engineering	Isfahan University of Technology
MSc	2008	Control Engineering	Amirkabir University of Technology
Ph.D	2014	Control Engineering	Amirkabir University of Technology

Work Experience

- Chair of the Control Group from 2016 to 2023, Electrical & Computer Engineering Department, Kashan University

Papers in Conferences

1. E. Nazemorroaya, M. Shafieerad and M. Majidi, Consensus-based algorithm for distributed convex optimization, 4th International Conference on Computational Algebra, Computational Number Theory and Applications, CACNA2023, 1 - 2023, کاشان.
2. E. Nazemorroaya, M. Shafieerad and M. Hajatipour, Model Reference Adaptive Control for Nonlinear Systems in the Presence of Unknown External Disturbances, 30th International Conference on Electrical Engineering (ICEE2022), 1 - 2022, تهران.
3. Zohreh Abbasi, Iman Zamani, Amirhossein Amiri Mehra, Optimal Control of SEIR Epidemic Model Considering Nonlinear Transmission Rate and Time Delay, 7th International Conference on Control, Instrumentation and Automation (ICCIA), 1 - 2021, تبریز.
4. مرضیه بهمنی, محسن شفیعی راد, مهدی زینالی, احسان ناظم الرعاياسده, تخمین پارامتر سریهای زمانی دو بعدی چند متغیره گسسته, ۲۹th Iranian Conference on Electrical Engineering (ICEE ۲۰۲۱), ۱ - ۲۰۲۱, تهران.
5. Amir Hossein Amiri Mehra, zohreh abbasi, Iman Zamani, Stability Analysis of a New Switched SEIAR-Vac-Iso Epidemic Model for the COVID-19, 29th Iranian Conference on Electrical Engineering (ICEE 2021), 1 - 2021, تهران.
6. zohreh abbasi, Amir Hossein Amiri Mehra, Iman Zamani, Optimized ANFIS-based Control Design Using Genetic Algorithm to Obtain the Vaccination and Isolation Rates for the COVID-19, 29th Iranian Conference on Electrical Engineering (ICEE 2021), 1 - 2021, تهران.
7. M. Shafieerad, Z. Hayati, I. Zamani, Parameter Estimation of MMO Two-Dimensional ARMAX Model

- Using Prediction Error Method Shiraz, Iran, ۲۰۱۸. ۴th National Conference on Applied Research in Electrical, Mechanical, Computer & IT Engineering, Shiraz, ۲۰۱۸.
8. S. Kashefi و M. Shafieirad, Formation of CFI Network Components Using Distributed Position-Based Formation Control Design, 9th National Conference of Command Control Communication Computer Intelligence, ۲۰۱۶.
 9. M. H. Nasirirad , I. Zamani , M. Shafieirad , S. A. Hosseini, New Road Tunnels Intelligent Control Design to Increase Safety and Reduce Financial Costs and Death Toll with the Case Study of Tunnels in Road ۰۰۶-۸۵-۰۱-۰۴, 1st National Road ITS Congress, Tehran, ۲۰۱۵.
 10. M. Sadeghi , M. Shafiee , F. Memarzadeh Zavareh , M. Shafieirad , Utilization of Gabor Wavelet in Image Processing of Steel Surfaces for Detection of Observable Defects , MASFOR 2012 , Istanbul , 2012.
 11. Fabrication of TiB₂-TiC composites using different amount of carbon in the initial Ti-B-C powder mixture An Axiomatic Approach to Design for Sustainable End-of-life: A Review of Literature , ICME2012 , Malaysia , 2012.
 12. M. Sadeghi , M. Shafiee , M. Shafieirad , A New Approach to Improve Defect Detection of Steel Sheets Using Gabor Wavelet , IEEE 3rd International Conference On Signal Processing Systems (ICSPS) , China , 2011.
 13. M. shafieirad , M. Karimi Hosseinabadi , M. Shafiee, Graphical stability Analysis for two-Dimensional systems, ICEE ۲۰۱۰, Isfahan, ۲۰۱۰.
 14. , M. Shafieirad , M. Shafiee , A Mobility-aware Cross-layer Congestion Control, Routing and Scheduling Design in Ad-hoc Wireless Networks , 11th International Conference on Optimization of Electrical and Electronic Equipment , Romania , 2008.

Papers in Journals

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1. Robust Output Feedback Controller Design Based on Kalman Filter for Switched Positive Discrete-Time Systems, Circuits, Systems, and Signal Processing, 2023, SCOPUS , JCR.
 2. Vaccination and Isolation Based Control Design of the COVID-19 Pandemic Based on Adaptive Neuro Fuzzy Inference System Optimized with the Genetic Algorithm, Evolving Systems, 2023, SCOPUS , JCR.
 3. H_∞ Observer-Based Control Design for Switched Positive Systems Including Interval Uncertainties, Unstable Modes and Time-Varying Delay, Journal of Operation and Automation in Power Engineering (JOAPE), 2023, SCOPUS , ISC.
 4. Mean square consensus of heterogeneous multi-agent systems in the presence of actuator faults, TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, 2023, SCOPUS , JCR.
 5. Asier Ibeas, Nonlinear Pseudo State-Feedback Controller Design for Affine Fuzzy Large-Scale Systems with H_∞ Performance, International Journal of Fuzzy Systems (IJFS), Vol. 25, pp. 80, 2023, SCOPUS , JCR.
 6. معصومه سلطانی, سیدرضا ابوالقاسمیان عطاآبادی, احمدرضا قاسمی, محسن شفیعی راد, زهره عباسی, امیرحسین امیری مهرا, Laminated optimization of non-uniform I-shaped beams under transversely loading with clamped-free boundary conditions, Structures, Vol. 47, pp. 1524, 2023, SCOPUS , JCR.
 7. Asier Ibeas, Nonlinear Robust Adaptive Sliding Mode Control Strategy for Innate Immune Response to Influenza Virus, IETE JOURNAL OF RESEARCH, 2022, SCOPUS , JCR.
 8. Leader-Following Consensus Considering Effects of Agents on Each Other via Impulsive Control: A Topology Dependent Average Dwell Time Approach, Journal of Franklin Institute, Vol. 359, pp. 8639, 2022, SCOPUS , JCR.
 9. معصومه سلطانی, سیدرضا ابوالقاسمیان عطاآبادی, محسن شفیعی راد, زهره عباسی, امیرحسین امیری مهرا, احمدرضا

- قاسمی, Multi-objective optimization of lateral stability strength of transversely loaded laminated composite beams with varying I-section, J COMPOS MATER, Vol. 56, pp. 1921, 2022, SCOPUS, JCR.
10. مهدیه عادل، مجید حاجتی پور، محمد جواد یزدان پناه، حامد هاشمی دزکی، محسن شفیعی راد. Optimized cyber-attack detection method of power systems using sliding mode observer, ELECTR POW SYST RES, Vol. 205, pp. 1, 2022, SCOPUS, JCR.
 11. محسن شفیعی راد، Asier Ibeas، زهره عباسی، ایمان زمانی، امیرحسین امیری مهرا. Optimal Allocation of Vaccine and Antiviral Drugs for Influenza Containment Over Delayed Multi-Scale Epidemic Model Considering Time-Dependent Transmission Rate, COMPUT MATH METHOD M, 2021, SCOPUS, JCR.
 12. مهدیه عادل، مجید حاجتی پور، محمد جواد یزدان پناه، محسن شفیعی راد، حامد هاشمی دزکی. Distributed trust-based unscented Kalman filter for non-linear state estimation under cyber-attacks: The application of manoeuvring target tracking over wireless sensor networks, IET CONTROL THEORY A, 2021, JCR.
 13. زهره عباسی، ایمان زمانی، محسن شفیعی راد، امیرحسین امیری مهرا، مهدی حسینی فرهی، مدل سازی خطی تاثیر آفات ISC، و بیماری ها بر روند رشد گیاه توت فرنگی در فضای حالت، نشریه علوم باغبانی، ۲۰۲۱.
 14. امیرحسین امیری مهرا، محسن شفیعی راد، زهره عباسی، ایمان زمانی، زهره اعرابی. Fuzzy Sliding Mode Controller Design and Analysis of an SQEIR Epidemic Model for COVID-۱۹ to Determine the Quarantine Rate, journal of control, ۵۹، ۲۰۲۱، شماره صفحات ۱۴، مجلد ۱۴، ISC.
 15. زهره حیاتی، محسن شفیعی راد، ایمان زمانی، امیرحسین امیری مهرا، زهره عباسی. Parameter estimation of MIMO two-dimensional ARMAX model based on IGLS method, Control and Cybernetics, Vol. 50, pp. 1, 2021, SCOPUS.
 16. امیرحسین امیری مهرا، محسن شفیعی راد، زهره عباسی، ایمان زمانی. Parameter Estimation and Prediction of COVID-19 Epidemic Turning Point and Ending Time of a Case Study on SIR/SQAIR Epidemic Models, COMPUT MATH METHOD M, 2020, SCOPUS, PubMed, JCR.
 17. اسدالله بافکری، چانگ و. نگوین، عباس گودرزی، میترا قرقره چی، محسن شفیعی راد. Investigation of strain and doping on the electronic properties of single layers of C6N6 and C6N8: a first principles study, RSC ADV, 2020, SCOPUS, JCR.
 18. زهره عباسی، ایمان زمانی، امیرحسین امیری مهرا، محسن شفیعی راد، آسیر اییناس. Optimal Control Design of Impulsive SQEIR Epidemic Models with Application to COVID-19, CHAOS SOLITON FRACT, 2020, SCOPUS, JCR.
 19. Iman Zamani, Masoud Shafiee, Mohsen Shafieirad, Mahdi Zeinali, Optimal control of large-scale singular linear systems via hierarchical strategy, Transactions of the Institute of Measurement and Control, 2019.
 20. M. Shafieirad, M. Shafiee, M. Abedi, Recursive Identification of Continuous Two-Dimensional Systems in the Presence of Additive Colored Noise, IETE Journal of Research, 2014.
 21. M. Shafieirad, M. Shafiee, M. Abedi, Estimation of Space and Time Shifts in Continuous 2-D Systems Using Instrumental Variable, Canadian Journal of Electrical and Computer Engineering, 2014.
 22. Fabrication of TiB2-TiC composites using different amount of carbon in the initial Ti-B-C powder mixture An Axiomatic Approach to Design for Sustainable End-of-life: A Review of Literature, Applied Mechanics and Materials Journal, 2013.
 23. M. Sadeghi, M. Shafiee, M. Shafieirad, A New Approach to Improve Defect Detection of Steel Sheets Using Gabor Wavelet, International Journal of Information and Electronics Engineering, 2013.
 24. M. Farrokhi, M. Shafieirad, M. Emamimeybodi, Localized Cross-Layer Algorithm to Minimize Transmission Delay in Wireless Ad-hoc Networks, Journal of American Science, 2013.
 25. M. Shafieirad, M. Shafiee, M. Abedi, Identification of Linear Partial Difference Equations with Constant Coefficients, Journal of Basic and Applied Scientific Research, 2013.
 26. M. Shafieirad, M. Shafiee, A. Mobinidehkordi, H. Shafieirad, Distributed Cross-layer Routing and Congestion Control Algorithm in Mobile Ad-hoc Networks, Journal of American Science, 2013.
 27. M. Shafieirad و M. shafiee. Cross-layer Design for Congestion Control Routing and Scheduling in Ad-hoc Wireless Networks with Considering the Electrical Power of nodes. Iranian Journal of Information and Communication Technology, ۲۰۰۸.