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Doctor of Engineering
farzadtat.blog.ir farzadtat.blog.ir farzadtat.blog.ir

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About

300
Publications
6,720
Reads
0
Citations

Introduction

Robot stability analysis in Banach space
(https://orcid.org/0000-0002-2283-2663)
https://farzadtat.blog.ir/

Skills and Expertise

MATLAB Simulation

Publications

Publications (300)

Land capability assessment by combining LESA and GIS in a calcareous watershed, Iran

Article

Mar 2022

Mohammad Akbari · Mohammad Tahmoures · Aliasghar Azma · [...] · Farzad Tat Shahdost

View

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Arti

Feb 2022

Pooya Pasha · Ali Hosin Alibak · Hossein Nabi · Farzad Tat Shahdost

This study aimed at investigating the variation of heat transfer and velocity changes of the fluid flow along the vertical line on a surface drawn from both sides. In the beginning, several parameters such as Prandtl number and viscoelastic effect were evaluated for heat transfer and fluid velocity by the variation iteration method. The results wer...

View

A universal methodology for reliable predicting the non-steroidal anti-inflammatory drug solubility in supercritical carbon dioxide

Article Full-text available

Jan 2022

Tahereh Rezaei · Vesal Nazarpour · Nahal Shahini · [...] · Farzad Tat Shahdost

Understanding the drug solubility behavior is likely the first essential requirement for designing the supercritical technology for pharmaceutical processing. Therefore, this study utilizes different machine learning scenarios to simulate the solubility of twelve non-steroidal anti-inflammatory drugs (NSAIDs) in the supercritical carbon dioxide (SC...

View

A universal methodology for reliable predicting the non-steroidal anti-inflammatory drug solubility in supercritical carbon dioxide

Article

Jan 2022

Tahereh Rezaei · Vesal Nazarpour · Nahal Shahini · [...] · Farzad Tat Shahdost

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Prevalence of depression and its effect on quality of life of medical staff in the prevalence of 19-COVID

Research Full-text available

Jan 2022

masoume_ahmadi_14@yahoo.com · am.parizi@gmail.com · Farzad Tat Shahdost

با توجه به اینکه کارکنان مراقبت های بهداشتی و درمانی در خط اول مبارزه با بیماری های عفونی و بیماری کووید- 91 می باشند اولین کسانی هستند که در معرض آلودگی به این ویروس قرار می گیرندترس و اضطراب ناشی از ابتلای احتمالی، بار

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رزه با

بیماری های عفونی و بیماری کووید- 91 می باشند اولین کسانی هستند که در معرض آلودگی به این ویروس قرار می گیرندترس و اضطراب ناشی از ابتلای احتمالی، بار روانی زیاد و مخربی ایجاد نموده که می تواند منجر به ناهنجاری های روحی و روانی، تضعیف سیستم ایمنی و کاهش توان بدن در مبارزه با بیما...

View

A theoretical survey on the chlorine dioxide (ClO2) and its decomposed species detection by the AlN nanotube in presence of environmental gases

Article

Dec 2021

Zahra Rahmani · Saeed Fosshat · Seyed Mehdi Seyed Alizadeh · [...] · Abdol Ghaffar Ebadi

The adsorption of N2, O2, H2O, hydrogen chloride (HCl), Cl2, hypochlorous acid (HClO), and ClO2 gases was explored onto an AlN nanotube (AlNNT) through density functional theory computations. As N2, O2, H2O, HCl, Cl2, and HClO approach the AlNNT, their adsorption releases 7.1, 12.6, 22.3, 26.5, 30.2, and 41.2 kJ/mol of energy, respectively, indicat...

View

Developing a global approach for determining the molar heat capacity of deep eutectic solvents

Article

Dec 2021

Ali Bagherzadeh · Nahal Shahini · Danial Saber · [...] · Farzad Tat Shahdost

Deep eutectic solvents (DES) are a new class of green solvents. Reliable characterization of DESs is a prerequisite for their successful applications. The molar heat capacity (Cp) is likely an essential thermal property often measured through expensive and time-consuming experimentations. Hence, it is necessary to derive an accurate model for Cp ca...

View

Spirit in Literature and Psychology

Research Full-text available

Nov 2021

Rassa Safaei Namin · rasol Safaeei namin · Faezeh Saeidi · Farzad Tat Shahdost

Spirit in Literature and Psychology

View

کودک دوستدار شهر های شاخص بررسی و مطالعه نمین صفائی رسا

Article Full-text available

Nov 2021

Rassa Safaei Namin · Farzad Tat Shahdost · rasol Safaeei namin · [...] · seyed mohammad reza shahabi

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The Last Two Decades SET00171-AC

Conference Paper | Full-text available

Oct 2021

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certificate of acceptance

View

Numerical investigation fluid velocity and heat transfer on the stretching sheet by VIM method and optimization fluid temperature and velocity parameter by Prandtl number and viscoelastic parameter

Preprint | Full-text available

Sep 2021

Pooya Pasha · Ali Hosin Alibak · Hossein Nabi · Farzad Tat Shahdost

This study aimed at investigating the variation of heat transfer and velocity changes of the fluid flow along the vertical line on a surface drawn from both sides. In the beginning, the several parameters such as Prandtl number and viscoelastic effect evaluated for heat transfer and fluid velocity by variation Iteration method. The results were com...

View

How to secure the stability of a robot system?

Preprint | Full-text available

Sep 2021

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How to secure the stability of a robot system?

View

How does the high effectiveness of the controller make sense?

Preprint | Full-text available

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How does the high effectiveness of the controller make sense?

View

How is it easier to implement a control system (with a controller)?

Preprint | Full-text available

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How is it easier to implement a control system (with a controller)?

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controller)?

Preprint Full-text available

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How is it easier to implement a control system (with a controller)?

View

Multiple errors in fractional order systems with sliding model Observer How can full order slide control control be detected and identified?

Preprint Full-text available

Sep 2021

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Multiple errors in fractional order systems with sliding model Observer How can full order slide control control be detected and identified?

View

How to identify multiple sensors and actuators of fault tolerant systems? (Objective: To determine single or multiple faults)

Preprint Full-text available

Sep 2021

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How to identify multiple sensors and actuators of fault tolerant systems? (Objective: To determine single or multiple faults)

View

What is the status of the design of advanced controllers for advanced robots?

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What is the status of the design of advanced controllers for advanced robots?

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What is the status of the design of advanced controllers for advanced robots?

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What is the status of the design of advanced controllers for advanced robots?/

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permissible to accumulate all kinds of environmental or non-environmental noise? Can they be considered as a unit?

View

What is the effect of measuring noise and components of unknown uncertainties on system performance as well as its stability?

Preprint Full-text available

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What is the effect of measuring noise and components of unknown uncertainties on system performance as well as its stability?

View

How Exprimental FD of actuators to design?

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How Exprimental FD of actuators to design?

View

How can we design and implement a laboratory sensor sensor detection unit for a controlled system?

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How can we design and implement a laboratory sensor sensor detection unit for a controlled system?

View

How to design an GOS observers for arm robot control system?

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How to design an GOS observers for arm robot control system?

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How to design an GOS observers for arm robot control system?

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What is the maximum allowable torque for robot corresponding sensors and actuators?

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What is the maximum allowable torque for robot corresponding sensors and actuators in the exprimental proposed scheme (subject to noise and unmodeled nonlinear effects?

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What is the maximum allowable torque for robot corresponding sensors and actuators in the exprimental proposed scheme (subject to noise and unmodeled nonlinear effects?

View

If noise is added to the input and output signals of the system, what effect does it have on the controller design for the system?

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If noise is added to the input and output signals of the system, what effect does it have on the controller design for the system?

View

What effect does local small loop gain have on system performance?

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What effect does local small loop gain have on system performance?

View

How to perform error detection apart from control system modeling?

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How to perform error detection apart from control system modeling?

View

When does a sudden robot joint failure occur?

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When does a sudden robot joint failure occur?

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View

How do uncertainties stimulate instability in the system?

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How do uncertainties stimulate instability in the system?

View

In a fault system based on multiple viewers, is it better to design an input rule with interrelated components or several control rules?

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In a fault system based on multiple viewers, is it better to design an input rule with interrelated components or several control rules?

View

Is the difference between the estimated angular position and the measured angular position called the sensor-actuator error or the error based on the uncertainty of unmodulated dynamics?

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Is the difference between the estimated angular position and the measured angular position called the sensor-actuator error or the error based on the uncertainty of unmodulated dynamics?

View

How do Isolate sensor and actuator faults relative to each other or to their type (or related signals or observer signals)?

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How do Isolate sensor and actuator faults relative to each other or to their type (or related signals or observer signals)?

View

What are the advantages (as well as disadvantages) of piecemeal design for a highly nonlinear system?

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What are the advantages (as well as disadvantages) of piec

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What are the ways to diagnose and correct the error correctly as well as indefinitely?

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What are the ways to diagnose and correct the error correctly as well as indefinitely?

View

What signals are considered for error analysis?

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What signals are considered for error analysis?

View

What are the hazards to the experimental case study system if noise is added to the input torque signals?

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What are the hazards to the experimental case study system if noise is added to the input torque signals?

View

Are the error and control variable signals separable (separate isolation and analysis)? (Sensor-actuator signal or sensor-actuator error)

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Are the error and control variable signals separable (separate isolation and analysis)? (Sensor-actuator signal or sensor-actuator error)

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Acceptance of conference paper - Farzad Tat

View

What is the function of sensor error detection sensors in the absence of general uncertainty?

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How to design a single fault of noise on sensor mearment?

View

How is identification based on maximum likelihood in the absence of faults?

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How is identification based on maximum likelihood in the absence of faults?

View

How to design a fault tolerant controller in static work conditions?

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How to design a fault tolerant controller in static work conditions?

View

How can the nonlinear matrix function of the dynamic model of the control system be expressed in linear form in the parameters?

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How can the nonlinear matrix function of the dynamic model of the control system be expressed in linear form in the parameters?

View

What is the change in the system if we remove at least one of the components of fuzzy maker, non-fuzzy maker, rule base and inference engine in a fuzzy system?

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What is the change in the system if we remove at least one of the components of fuzzy maker, non-fuzzy maker, rule base and inference engine in a fuzzy system?

View

Is it possible to use the same sensor that is used to detect errors and troubleshoot the system to detect actuators?

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How is a quasi-convex fraction fault tolerant controller analyzed and designed?

View

What is the procedure for selecting fuzzy maker, non-fuzzy maker, inference engine and rule base in 2nd order and higher fuzzy systems?

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What is the procedure for selecting fuzzy maker, non-fuzzy maker, inference engine and rule base in 2nd order and higher fuzzy systems?

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How is an adaptive fuzzy slip controller designed and developed for a biological control system?

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How is an adaptive fuzzy slip controller designed and developed for a biological control system?

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How is a second order fuzzy fraction controller designed and implemented on a control system?

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How is a second order fuzzy fraction controller designed and implemented on a control system?

View

How to design an optimal-optimal-suboptimal controller for a studied system?

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How to design an optimal-optimal-suboptimal controller for a studied system?

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How to design a convex-optimal optimization controller for a system under study?

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How do we design a robust controller based on linear and nonlinear programming to deal with all kinds of uncertainty?

View

How can convex optimization be effective in fault tolerant systems?

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How can convex optimization be effective in fault tolerant systems?

View

If the zeros and poles of the nonlinear descriptive function are definite positive or semi-definite negative, what changes occur in the system behavior as well as the type and definition of system stability?

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If the zeros and poles of the nonlinear descriptive function are definite positive or semi-definite negative, what changes occur in the system behavior as well as the type and definition of system stability?

View

What is the role of schure multiplication, complement and complement, as well as tensor multiplication in proving stability and controller design and error detection?

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What is the role of schure multiplication, complement and complement, as well as tensor multiplication in proving stability and controller design and error detection?

View

What are the ways to deal with measurement noise in control systems?

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What are the ways to deal with measurement noise in control systems?

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How can a complete robot system fault detection scheme be i

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How can a discrete time tolerant system controller be designed and implemented?

View

How to design a complete sliding model Observer?

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How to design a complete sliding model Observer?

View

How are the power-matrix state equations of the control system solvable?

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How are the power-matrix state equations of the control system solvable?

View

How can designed observers minimize the effect of external disturbances on the controlled system?

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How can designed observers minimize the effect of external disturbances on the controlled system?

View

What is the difference between an indeterminate parameter and an uncertainty in a dynamic model?

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What is the difference between an indeterminate parameter and an uncertainty in a dynamic model?

View

A single multi-input-multi-state second order sliding mode observer How is it designed?

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If a observer(browser) is designed for a control system, is it considered a separate input, or is the browser input integrated with the system input control rule and a general input for the controlled system?

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If a observer(browser) is designed for a control system, is it considered a separate input, or is the browser input integrated with the system input control rule and a general input for the controlled system?

View

How is the mode observer and input-output observer designed?

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How is the mode observer and input-output observer designed?

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What kind of systems are recommended full-order fuzzy controllers?

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What kind of systems are recommended full-order fuzzy controllers?

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How to design a slider-power variable based on sub-optimal observer?

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How to design a slider-power variable based on sub-optimal observer?

View

If any indeterminate parameter (of any degree and with any intensity) exists in the control system, can it be claimed that the system has a structured uncertainty?

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How can error thresholds be minimized or false alarms detected? In what cases are these cases undetectable or mis detection?

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How can error thresholds be minimized or false alarms detected? In what cases are these cases undetectable or mis detection?

View

If we have a structured uncertainty control system, what changes or changes will be achieved in achieving and satisfying finite time stability?

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If we have a structured uncertainty control system, what changes or changes will be achieved in achieving and satisfying finite time stability?

View

If the errors of a control system in theory converge to zero, what guarantee is there that the same will happen in its implementation?

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If the errors of a control system in theory converge to zero, what guarantee is there that the same will happen in its implementation?

View

In a system under study, how do the considered error sensors distinguish the input error from the output error and detect it separately and then converge to zero by the same unit or another unit?

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In a system under study, how do the considered error sensors distinguish the input error from the output error and detect it separately and then converge to zero by the same unit or another unit?

View

How can not eliminating or minimizing the input error expand the error circle of the state and output variables?

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Does
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integrated unit, create a problem in the analysis and design of the system?

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Does not distinguishing between faults caused by the power supply or wiring and considering all of them as an integrated unit, create a problem in the analysis and design of the system?

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What is the difference between a system that is not stable and a system that is unstable

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What is the difference between a system that is not stable and a system that is unstable? (What are the oscillating, transient and mean states of each)

View

How can the necessary and sufficient stable conditions and the promotion of stability be expressed and separated?

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How can the necessary and sufficient stable conditions and the promotion of stability be expressed and separated?

View

How can the nonlinear (perturbation)turbulence of a strictly nonlinear control system be compensated?

Preprint Full-text available

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How can the nonlinear (perturbation)turbulence of a strictly nonlinear control system be compensated?

View

How can the detection, identification of (faults)errors and uncertainties, as well as their isolation from the model, be accomplished through an adaptive fuzzy sliding model observer(viewer)?

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How and under what conditions can the necessary and sufficient conditions of linear control systems be defined and implemented for nonlinear systems of any degree and difficulty?

View

Can intra-system and extra-system errors be classified into two categories: finite and infinite or definite, definite and indefinite?

Preprint Full-text available

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آیا خطاهای درون سیستمی و برون سیستمی را می توان به دو دسته کران دار و بیکران یا مشخص ، معین و نامشخص دسته بندی نمود؟

View

Can all concepts of linear control systems be generalized to nonlinear systems?

Research Full-text available

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Can all concepts of linear control systems be generalized to nonlinear systems?

View

In a control system, how can unwanted signals, uncertainties and errors be separated?

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In a control system, how can unwanted signals, uncertainties and errors be separated?

View

Can errors due to inaccurate modeling or other types of errors fall into the category of uncertainties or vice versa?

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Can errors due to inaccurate modeling or other types of errors fall into the category of uncertainties or vice versa?

View

What is the difference between error and fault?

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If the uncontrolled (or uncontrollable) system is assumed to be nonlinear, how can it be proved that the stable system is asymptotic (or exponential) in Lyapunov's concept(sense)?

View

Conditional Stability -A Comparison for exactly null-controlability-observibility How does it make sense?

Preprint Full-text available

Sep 2021

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Conditional Stability -A Comparison for exactly null-controlability-observibility How does it make sense?

View

How to control a linear uncontrolled system in the Hilbert and Euclidean space?

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How to control a linear uncontrolled system in the Hilbert and Euclidean space?

View

What does uncontrollable and exactly null- controllable mean?

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What does uncontrollable and exactly null- controllable mean?

View

What is the connection between the two areas exact null-controllable systems and exponentially stabilizable?

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What is the connection between the two areas exact null-controllable systems and exponentially stabilizable?

View

What is the difference between the concept of stability and stability for systems with finite temporal-spatial dimensions and the type of infinite dimensions?

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Questions (70)

What is the status of the design of advanced controllers for advanced robots?

Question

Sep 2021

What is the status of the design of advanced controllers for advanced robots?

View 4 Answers

What effect does local small loop gain have on system performance? How do uncertainties stimulate instability in the system?

Question

Sep 2021

If noise is added to the input and output signals of the system, what effect does it have on the controller design for the system?

View

If noise is added to the input and output signals of the system, what effect does it have on the controller design for the system?

Question

Sep 2021

اگر نویز به سیگنال های ورودی و خروجی سیستم اضافه شود چه تاثیری در طراحی کنترل کننده برای سیستم دارد؟

View

What is the maximum allowable torque for robot corresponding sensors and actuators?

Question

Sep 2021

What is the maximum allowable torque for robot corresponding sensors and actuators?

View

What is the relationship between exponential stability and the overall exponential stability of a controlled system?

Question

Sep 2021

What is the relationship between exponential stability and the over

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View

What is amplitude, dimension, dual, inverse operator as well as auxiliary controller of fuzzy systems?

Question

Sep 2021

///What is amplitude, dimension, dual, inverse operator as well as auxiliary controller of fuzzy systems?

View

What is amplitude, dimension, dual, inverse operator as well as auxiliary controller of fuzzy systems?

Question

Sep 2021

What is amplitude, dimension, dual, inverse operator as well as auxiliary controller of fuzzy systems?

View 1 Answer

How do fuzzy mappings take place in metrologically spaced spaces with infinite dimensions?

Question

Sep 2021

How do fuzzy mappings take place in metrologically spaced spaces with infinite dimensions?

View

How is the multi-input-multi-mode(state) controller designed for follower two-degree-free robots?

Question

Aug 2021

How is the multi-input-multi-mode(state) controller designed for follower two-degree-free robots?

View

Waste generators are typically (usually) based on the viewer. How does noise and uncertainty ensure the performance of the viewers?

Question

Aug 2021

Waste generators are typically (usually) based on the viewer. How does noise and uncertainty ensure the performance of the viewers?

View

What is the modeling of actuator and sensor frequency erro

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Question

Aug 2021

What about modeling errors as an unexpected change in system dynamics or as an unexpected presence of unknown signals?

View

///How can the actuators of the fault unit be activated while the FD is activated a second time on the sensors?

Question

Aug 2021

How can the actuators of the fault unit be activated while the FD is activated a second time on the sensors?

View

How to design a second-order sliding model viewer with the aim of error detection and isolation?

Question

Aug 2021

How to design a second-order sliding model viewer with the aim of error detection and isolation?

View

Optimal direct adaptive nonlinear controller for three degree freedom robot How is it designed with a gravitational term?

Question

Aug 2021

Optimal direct adaptive nonlinear controller for three degree freedom robot How is it designed with a gravitational term?

View

If latency, external perturbations, and uncertainties ...?

Question

Aug 2021

If latency, external perturbations, and uncertainties in the intelligent adaptive system are of unstable fractional order, what effect do changes in working points and equilibrium ha…

View

Identification of a 2-fold fuzzy system A highly nonlinear intelligent fraction will work best with which method?

Identification of a 2-fold fuzzy system A highly nonlinear intell

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View

How are linear and nonlinear fractional controllers designed with main phase pre-phase and post-phase stabilizer compensator?

Question

Jul 2021

How are linear and nonlinear fractional controllers designed with main phase pre-phase and post-phase stabilizer compensator?

View

Network

Projects

Projects (252)

Prevalence of depression and its effect on quality of life of medical staff in the prevalence of 19-COVID

Project

View

Information about your PhD degree

Project

Every one had many exited memories in his PhD period. With our respects to all our professors that taught us, our universities that gave us this opportunities, the city, the…

View

1 Update

Spirit in Literature and Psychology

Project

View

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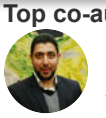

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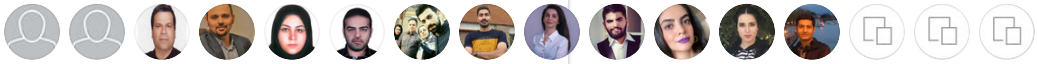

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