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Optimizing Energy Consumption for Lighting Control System via Multivariate Extremum Seeking Control With Diminishing Dither Signal
 Chun Yin ; Sara Dadras ; Xuegang Huang ; YangQuan Chen ; Shouming Zhong
 IEEE Transactions on Automation Science and Engineering
 Year: 2019 , (Early Access)
 Pages: 1 - 12

IEEE Early Access Articles
Abstract (3181 Kb)

Optimizing Energy Consumption for Lighting Control System via Multivariate Extremum Seeking Control With Diminishing Dither Signal

Chun Yin | Sara Dadras | Xuegang Huang | YangQuan Chen | Shouming Zhong
IEEE Transactions on Automation Science and Engineering
Year: 2019 | Volume: PP | Issue: 99

Year

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Index Terms

A Novel Cuckoo Search and its Performance Analysis
 Zhigang Lian ; Lihua Lu ; Yangquan Chen
 2018 5th International Conference on Systems and Informatics (ICSAI)
 Year: 2018
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IEEE Conferences
Abstract (441 Kb)

A Novel Cuckoo Search and its Performance Analysis

Zhigang Lian | Lihua Lu | Yangquan Chen
2018 5th International Conference on Systems and Informatics (ICSAI)
Year: 2018

Fractional Order Flight Control of Quadrotor UAS: an OS4 Benchmark Environment and a Case Study
 Bo Shang ; Yunzhou Zhang ; Chengdong Wu ; YangQuan Chen
 2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV)
 Year: 2018
 Pages: 377 - 382

IEEE Conferences
Abstract (829 Kb)

Fractional Order Flight Control of Quadrotor UAS: an OS4 Benchmark Environment and a Case Study

Bo Shang | Yunzhou Zhang | Chengdong Wu | YangQuan Chen

2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV)

Year: 2018

Aerial Robotics and Unmanned Aerial Vehicles [TC Spotlight]

Anibal Ollero ; Kimon Valavanis ; Yangquan Chen

IEEE Robotics & Automation Magazine

Year: 2018 , Volume: 25 , Issue: 4

Pages: 96 - 97

IEEE Journals & Magazines

(695 Kb)

Aerial Robotics and Unmanned Aerial Vehicles [TC Spotlight]

Anibal Ollero | Kimon Valavanis | Yangquan Chen

IEEE Robotics & Automation Magazine

Year: 2018 | Volume: 25 | Issue: 4

Improved frequency-domain design method for the fractional order proportional–integral–derivative controller optimal design: a case study of permanent magnet synchronous motor speed control

Weijia Zheng ; Ying Luo ; Youguo Pi ; Yangquan Chen

IET Control Theory & Applications

Year: 2018 , Volume: 12 , Issue: 18

Pages: 2478 - 2487

IET Journals & Magazines

Abstract (3125 Kb)

Improved frequency-domain design method for the fractional order proportional–integral–derivative controller optimal design: a case study of permanent magnet synchronous motor speed control

Weijia Zheng | Ying Luo | Youguo Pi | Yangquan Chen

IET Control Theory & Applications

Year: 2018 | Volume: 12 | Issue: 18

A Novel Human Computer Interface based on Electrooculogram Signal for Smart Assistive Robots

Lei Sun ; Sun–an Wang ; Hua Chen ; Yangquan Chen

2018 IEEE International Conference on Mechatronics and Automation (ICMA)

Year: 2018

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IEEE Conferences

Abstract (4521 Kb)

A Novel Human Computer Interface based on Electrooculogram Signal for Smart Assistive Robots

Lei Sun | Sun–an Wang | Hua Chen | Yangquan Chen

2018 IEEE International Conference on Mechatronics and Automation (ICMA)

Year: 2018

Optimal sensor placement for time fractional diffusion system via eigenvalue identification

Fudong Ge ; YangQuan Chen

2018 37th Chinese Control Conference (CCC)

Year: 2018

Pages: 10152 - 10157

IEEE Conferences

Abstract (121 Kb)

Optimal sensor placement for time fractional diffusion system via eigenvalue identification

Fudong Ge | YangQuan Chen
2018 37th Chinese Control Conference (CCC)
Year: 2018

- Low Cost Autonomous Battery Replacement System for Quadrotor Small Unmanned Aerial Systems (sUAS) using 3D Printing Components**
Tiebiao Zhao ; Chris Currier ; Alexis Bonnin ; Gregory Mello ; Noe Martinez ;
YangQuan Chen
2018 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2018
Pages: 103 - 107
IEEE Conferences
Abstract (1335 Kb)

Low Cost Autonomous Battery Replacement System for
Quadrotor Small Unmanned Aerial Systems (sUAS) using 3D
Printing Components

Tiebiao Zhao | Chris Currier | Alexis Bonnin | Gregory Mello | Noe Martinez |
YangQuan Chen
2018 International Conference on Unmanned Aircraft Systems (ICUAS)
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- Optimal 3D Reconstruction of Caves Using Small Unmanned Aerial Systems and RGB-D Cameras**
Guoxiang Zhang ; YangQuan Chen ; Holley Moyes
2018 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2018
Pages: 410 - 415
IEEE Conferences
Abstract (8829 Kb)

Optimal 3D Reconstruction of Caves Using Small Unmanned
Aerial Systems and RGB-D Cameras

Guoxiang Zhang | YangQuan Chen | Holley Moyes
2018 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2018

- Wind Measurement and Estimation with Small Unmanned Aerial Systems (sUAS) Using On-Board Mini Ultrasonic Anemometers**
Derek Hollenbeck ; Gregorio Nunez ; Lance E. Christensen ; YangQuan
Chen
2018 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2018
Pages: 285 - 292
IEEE Conferences
Abstract (6793 Kb)

Wind Measurement and Estimation with Small Unmanned Aerial
Systems (sUAS) Using On-Board Mini Ultrasonic Anemometers

Derek Hollenbeck | Gregorio Nunez | Lance E. Christensen | YangQuan Chen
2018 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2018

- Fractional Order Zero Phase Error Tracking Control for Continuous Time Non-minimum Phase Processes**
Jie Yuan ; YangQuan Chen ; Shumin Fei
2018 Annual American Control Conference (ACC)
Year: 2018
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IEEE Conferences
Abstract (349 Kb)

Fractional Order Zero Phase Error Tracking Control for Continuous Time Non-minimum Phase Processes

Jie Yuan | YangQuan Chen | Shumin Fei
2018 Annual American Control Conference (ACC)
Year: 2018

Fractional order gradient methods for a general class of convex functions

Yuquan Chen ; Yiheng Wei ; Yong Wang ; YangQuan Chen
2018 Annual American Control Conference (ACC)
Year: 2018
Pages: 3763 - 3767

IEEE Conferences

Abstract (224 Kb)

Fractional order gradient methods for a general class of convex functions

Yuquan Chen | Yiheng Wei | Yong Wang | YangQuan Chen
2018 Annual American Control Conference (ACC)
Year: 2018

Fractional Order Proportional-Resonant Controller

Hadi Malek ; Sara Dadras ; Chun Yin ; YangQuan Chen
2018 Annual American Control Conference (ACC)
Year: 2018
Pages: 3086 - 3091

IEEE Conferences

Abstract (671 Kb)

Fractional Order Proportional-Resonant Controller

Hadi Malek | Sara Dadras | Chun Yin | YangQuan Chen
2018 Annual American Control Conference (ACC)
Year: 2018

Event-driven boundary control for time fractional diffusion systems under time-varying input disturbance

Fudong Ge ; YangQuan Chen
2018 Annual American Control Conference (ACC)
Year: 2018
Pages: 140 - 145

IEEE Conferences

Abstract (238 Kb)

Event-driven boundary control for time fractional diffusion systems under time-varying input disturbance

Fudong Ge | YangQuan Chen
2018 Annual American Control Conference (ACC)
Year: 2018

Asymptotical stability of fractional order systems with time delay via an integral inequality

Bin-Bin He ; Hua-Cheng Zhou ; YangQuan Chen ; Chun-Hai Kou
IET Control Theory & Applications
Year: 2018 , Volume: 12 , Issue: 12
Pages: 1748 - 1754

IET Journals & Magazines

Abstract (1047 Kb)

Asymptotical stability of fractional order systems with time delay via an integral inequality

Bin-Bin He | Hua-Cheng Zhou | YangQuan Chen | Chun-Hai Kou

IET Control Theory & Applications
 Year: 2018 | Volume: 12 | Issue: 12

Backstepping-based observer for output feedback stabilization of a boundary controlled fractional reaction diffusion system

Juan Chen ; Baotong Cui ; YangQuan Chen ; Li Mao

2017 11th Asian Control Conference (ASCC)

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IEEE Conferences

Abstract

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Backstepping-based observer for output feedback stabilization of a boundary controlled fractional reaction diffusion system

Juan Chen | Baotong Cui | YangQuan Chen | Li Mao

2017 11th Asian Control Conference (ASCC)

Year: 2017

A shared control architecture based on electrooculogram signal and global vision for smart assistive robots

Lei Sun ; Hua Chen ; YangQuan Chen

2017 IEEE International Conference on Unmanned Systems (ICUS)

Year: 2017

Pages: 146 - 149

IEEE Conferences

Abstract

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A shared control architecture based on electrooculogram signal and global vision for smart assistive robots

Lei Sun | Hua Chen | YangQuan Chen

2017 IEEE International Conference on Unmanned Systems (ICUS)

Year: 2017

Backstepping-based boundary feedback control for a fractional reaction diffusion system with mixed or Robin boundary conditions

Juan Chen ; Bo Zhuang ; YangQuan Chen ; Baotong Cui

IET Control Theory & Applications

Year: 2017 , Volume: 11 , Issue: 17

Pages: 2964 - 2976

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Abstract

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Backstepping-based boundary feedback control for a fractional reaction diffusion system with mixed or Robin boundary conditions

Juan Chen | Bo Zhuang | YangQuan Chen | Baotong Cui

IET Control Theory & Applications

Year: 2017 | Volume: 11 | Issue: 17

Fixed-wing MAV adaptive PD control based on a modified MIT rule with sliding-mode control

A.T. Espinoza Fraire ; YangQuan Chen ; A. Dzul ; R. Lozano

2017 International Conference on Unmanned Aircraft Systems (ICUAS)

Year: 2017

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IEEE Conferences

Abstract

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Fixed-wing MAV adaptive PD control based on a modified MIT rule with sliding-mode control

A.T. Espinoza Fraire | YangQuan Chen | A. Dzul | R. Lozano
2017 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2017

A new framework for UAV-based remote sensing data processing and its application in almond water stress quantification

Tiebiao Zhao ; David Doll ; Dong Wang ; YangQuan Chen
2017 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2017

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Abstract (389 Kb)

A new framework for UAV-based remote sensing data processing and its application in almond water stress quantification

Tiebiao Zhao | David Doll | Dong Wang | YangQuan Chen
2017 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2017

SmartCaveDrone: 3D cave mapping using UAVs as robotic co-archaeologists

Guoxiang Zhang ; Bo Shang ; YangQuan Chen ; Holley Moyes
2017 International Conference on Unmanned Aircraft Systems (ICUAS)
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IEEE Conferences

Abstract (1560 Kb)

SmartCaveDrone: 3D cave mapping using UAVs as robotic co-archaeologists

Guoxiang Zhang | Bo Shang | YangQuan Chen | Holley Moyes
2017 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2017

Fugitive methane leak detection using sUAS and miniature laser spectrometer payload: System, application and groundtruthing tests

Brendan J. Smith ; Garrett John ; Lance E. Christensen ; YangQuan Chen
2017 International Conference on Unmanned Aircraft Systems (ICUAS)
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IEEE Conferences

Abstract (818 Kb)

Fugitive methane leak detection using sUAS and miniature laser spectrometer payload: System, application and groundtruthing tests

Brendan J. Smith | Garrett John | Lance E. Christensen | YangQuan Chen
2017 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2017

Regional detection of unknown sources for the sub-diffusion process

Fudong Ge ; YangQuan Chen ; Chunhai Kou
2017 American Control Conference (ACC)
Year: 2017

Pages: 3237 - 3242

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Regional detection of unknown sources for the sub-diffusion process

Fudong Ge | YangQuan Chen | Chunhai Kou
2017 American Control Conference (ACC)
Year: 2017

An iterative learning approach to identify fractional order KiBaM model

Yang Zhao ; Yan Li ; Fengyu Zhou ; Zhongkai Zhou ; YangQuan Chen
IEEE/CAA Journal of Automatica Sinica
Year: 2017 , Volume: 4 , Issue: 2
Pages: 322 - 331

IEEE Journals & Magazines

Abstract

(1111 Kb)

An iterative learning approach to identify fractional order KiBaM model

Yang Zhao | Yan Li | Fengyu Zhou | Zhongkai Zhou | YangQuan Chen
IEEE/CAA Journal of Automatica Sinica
Year: 2017 | Volume: 4 | Issue: 2

Maximum power point tracking with fractional order high pass filter for proton exchange membrane fuel cell

Jianxin Liu ; Tiebiao Zhao ; YangQuan Chen
IEEE/CAA Journal of Automatica Sinica
Year: 2017 , Volume: 4 , Issue: 1
Pages: 70 - 79

IEEE Journals & Magazines

Abstract

(2714 Kb)

Maximum power point tracking with fractional order high pass filter for proton exchange membrane fuel cell

Jianxin Liu | Tiebiao Zhao | YangQuan Chen
IEEE/CAA Journal of Automatica Sinica
Year: 2017 | Volume: 4 | Issue: 1

Fractional envelope analysis for rolling element bearing weak fault feature extraction

Jianhong Wang ; Liyan Qiao ; Yongqiang Ye ; YangQuan Chen
IEEE/CAA Journal of Automatica Sinica
Year: 2017 , Volume: 4 , Issue: 2
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Abstract

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Fractional envelope analysis for rolling element bearing weak fault feature extraction

Jianhong Wang | Liyan Qiao | Yongqiang Ye | YangQuan Chen
IEEE/CAA Journal of Automatica Sinica
Year: 2017 | Volume: 4 | Issue: 2

Spreading control of sub-diffusion processes

Fudong Ge ; YangQuan Chen ; Chunhai Kou
2016 IEEE 55th Conference on Decision and Control (CDC)
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Spreading control of sub-diffusion processes

Fudong Ge | YangQuan Chen | Chunhai Kou
2016 IEEE 55th Conference on Decision and Control (CDC)
Year: 2016

Modified Elman neural network based neural adaptive inverse control of rate-dependent hysteresis

Liang Deng ; Rudolf J. Seethaler ; YangQuan Chen ; Ping Yang ; Qiming Cheng

2016 International Joint Conference on Neural Networks (IJCNN)

Year: 2016

Pages: 2366 - 2373

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Modified Elman neural network based neural adaptive inverse control of rate-dependent hysteresis

Liang Deng | Rudolf J. Seethaler | YangQuan Chen | Ping Yang | Qiming Cheng
2016 International Joint Conference on Neural Networks (IJCNN)

Year: 2016

Fractional-order generalized principle of self-support (FOGPSS) in control system design

Hua Chen ; YangQuan Chen

IEEE/CAA Journal of Automatica Sinica

Year: 2016 , Volume: 3 , Issue: 4

Pages: 430 - 441

IEEE Journals & Magazines

Abstract

(1163 Kb)

Fractional-order generalized principle of self-support (FOGPSS) in control system design

Hua Chen | YangQuan Chen

IEEE/CAA Journal of Automatica Sinica

Year: 2016 | Volume: 3 | Issue: 4

Guest editorial for special issue on fractional order systems and controls

YangQuan Chen ; Dingyu Xue ; Antonio Visioli

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Year: 2016 , Volume: 3 , Issue: 4

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Guest editorial for special issue on fractional order systems and controls

YangQuan Chen | Dingyu Xue | Antonio Visioli

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Year: 2016 | Volume: 3 | Issue: 4

Construction of chaotic sensing matrix for fractional bandlimited signal associated by fractional fourier transform

Haoran Zhao ; Liyan Qiao ; Libao Deng ; YangQuan Chen

2016 IEEE AUTOTESTCON

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Construction of chaotic sensing matrix for fractional bandlimited signal associated by fractional fourier transform

Haoran Zhao | Liyan Qiao | Libao Deng | YangQuan Chen

2016 IEEE AUTOTESTCON

Year: 2016

A framework of optimal remote sensing using small unmanned aircraft systems

Brandon Stark ; YangQuan Chen

2016 12th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA)

Year: 2016

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Abstract

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A framework of optimal remote sensing using small unmanned aircraft systems

Brandon Stark | YangQuan Chen

2016 12th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA)

Year: 2016

Fractional order modeling of human operator behavior with second order controlled plant and experiment research

Jiacai Huang ; Yangquan Chen ; Haibin Li ; Xinxin Shi

IEEE/CAA Journal of Automatica Sinica

Year: 2016 , Volume: 3 , Issue: 3

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Fractional order modeling of human operator behavior with second order controlled plant and experiment research

Jiacai Huang | Yangquan Chen | Haibin Li | Xinxin Shi

IEEE/CAA Journal of Automatica Sinica

Year: 2016 | Volume: 3 | Issue: 3

A fractional micro-macro model for crowds of pedestrians based on fractional mean field games

Kecai Cao ; Yangquan Chen ; Daniel Stuart

IEEE/CAA Journal of Automatica Sinica

Year: 2016 , Volume: 3 , Issue: 3

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Abstract

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A fractional micro-macro model for crowds of pedestrians based on fractional mean field games

Kecai Cao | Yangquan Chen | Daniel Stuart

IEEE/CAA Journal of Automatica Sinica

Year: 2016 | Volume: 3 | Issue: 3

H^∞ output feedback control of linear time-invariant fractional-order systems over finite frequency range

Cuihong Wang ; Huanhuan Li ; Yangquan Chen

IEEE/CAA Journal of Automatica Sinica

Year: 2016 , Volume: 3 , Issue: 3

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IEEE Journals & Magazines

Abstract (678 Kb)

H^∞ output feedback control of linear time-invariant fractional-order systems over finite frequency range

Cuihong Wang | Huanhuan Li | Yangquan Chen

IEEE/CAA Journal of Automatica Sinica

Year: 2016 | Volume: 3 | Issue: 3

Guest editorial for special issue on fractional order systems and controls

Yangquan Chen ; Dingyu Xue ; Antonio Visioli

IEEE/CAA Journal of Automatica Sinica

Year: 2016 , Volume: 3 , Issue: 3

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IEEE Journals & Magazines

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Guest editorial for special issue on fractional order systems and controls

Yangquan Chen | Dingyu Xue | Antonio Visioli

IEEE/CAA Journal of Automatica Sinica

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Applicability of unmanned aerial systems for leak detection

Brendan Smith ; Garrett John ; Brandon Stark ; Lance E. Christensen ;

YangQuan Chen

2016 International Conference on Unmanned Aircraft Systems (ICUAS)

Year: 2016

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Abstract

(1265 Kb)

Applicability of unmanned aerial systems for leak detection

Brendan Smith | Garrett John | Brandon Stark | Lance E. Christensen |

YangQuan Chen

2016 International Conference on Unmanned Aircraft Systems (ICUAS)

Year: 2016

Fractional order robust visual servoing control of a quadrotor UAV with larger sampling period

Bo Shang ; Jianxin Liu ; Tiebiao Zhao ; YangQuan Chen

2016 International Conference on Unmanned Aircraft Systems (ICUAS)

Year: 2016

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Fractional order robust visual servoing control of a quadrotor UAV with larger sampling period

Bo Shang | Jianxin Liu | Tiebiao Zhao | YangQuan Chen

2016 International Conference on Unmanned Aircraft Systems (ICUAS)

Year: 2016

Challenges in water stress quantification using small unmanned aerial system (sUAS): Lessons from a growing season of almond

Tiebiao Zhao ; Brandon Stark ; YangQuan Chen ; Andrew L. Ray ; David Doll

2016 International Conference on Unmanned Aircraft Systems (ICUAS)

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IEEE Conferences

Abstract

(274 Kb)

Challenges in water stress quantification using small unmanned aerial system (sUAS): Lessons from a growing season of almond

Tiebiao Zhao | Brandon Stark | YangQuan Chen | Andrew L. Ray | David Doll
2016 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2016

- An analysis of the effect of the bidirectional reflectance distribution function on remote sensing imagery accuracy from Small Unmanned Aircraft Systems**

Brandon Stark ; Tiebiao Zhao ; YangQuan Chen

2016 International Conference on Unmanned Aircraft Systems (ICUAS)

Year: 2016

Pages: 1342 - 1350

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IEEE Conferences

Abstract

(2357 Kb)

An analysis of the effect of the bidirectional reflectance distribution function on remote sensing imagery accuracy from Small Unmanned Aircraft Systems

Brandon Stark | Tiebiao Zhao | YangQuan Chen
2016 International Conference on Unmanned Aircraft Systems (ICUAS)
Year: 2016

- Boundary feedback stabilisation for the time fractional-order anomalous diffusion system**

Fudong Ge ; YangQuan Chen ; Chunhai Kou

IET Control Theory & Applications

Year: 2016 , Volume: 10 , Issue: 11

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Boundary feedback stabilisation for the time fractional-order anomalous diffusion system

Fudong Ge | YangQuan Chen | Chunhai Kou
IET Control Theory & Applications
Year: 2016 | Volume: 10 | Issue: 11

- Modulated wideband convertor for α -bandlimited signals in fractional fourier domain**

Haoran Zhao ; Liyan Qiao ; Yangquan Chen

2016 17th International Carpathian Control Conference (ICCC)

Year: 2016

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IEEE Conferences

Abstract

(411 Kb)

Modulated wideband convertor for α -bandlimited signals in fractional fourier domain

Haoran Zhao | Liyan Qiao | Yangquan Chen
2016 17th International Carpathian Control Conference (ICCC)
Year: 2016

- Fractional order equivalent series resistance modelling of electrolytic capacitor and fractional order failure prediction with application to**

predictive maintenance

Hadi Malek ; Sara Dadras ; Yangquan Chen

IET Power Electronics

Year: 2016 , Volume: 9 , Issue: 8

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Abstract (492 Kb)

Fractional order equivalent series resistance modelling of electrolytic capacitor and fractional order failure prediction with application to predictive maintenance

Hadi Malek | Sara Dadras | Yangquan Chen

IET Power Electronics

Year: 2016 | Volume: 9 | Issue: 8

 Frequency domain modelling and control of fractional-order system for permanent magnet synchronous motor velocity servo system

Wei Yu ; Ying Luo ; YangQuan Chen ; YouGuo Pi

IET Control Theory & Applications

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Abstract (1446 Kb)

Frequency domain modelling and control of fractional-order system for permanent magnet synchronous motor velocity servo system

Wei Yu | Ying Luo | YangQuan Chen | YouGuo Pi

IET Control Theory & Applications

Year: 2016 | Volume: 10 | Issue: 2

 Fractional Order Extremum Seeking Control: Performance and Stability Analysis

Hadi Malek ; YangQuan Chen

IEEE/ASME Transactions on Mechatronics

Year: 2016 , Volume: 21 , Issue: 3

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Abstract (1040 Kb)

Fractional Order Extremum Seeking Control: Performance and Stability Analysis

Hadi Malek | YangQuan Chen

IEEE/ASME Transactions on Mechatronics

Year: 2016 | Volume: 21 | Issue: 3

 Development and validation of a microbe detecting UAV payload

Brendan Smith ; Michael Beman ; David Gravano ; YangQuan Chen

2015 Workshop on Research, Education and Development of Unmanned Aerial Systems (RED-UAS)

Year: 2015

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Development and validation of a microbe detecting UAV payload

Brendan Smith | Michael Beman | David Gravano | YangQuan Chen

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Year: 2015

Extremum seeking control with fractional-order switching technique design for maximum power point tracking in photovoltaic systems

Chun Yin ; YangQuan Chen ; Brandon Stark ; Shou-ming Zhong
2015 54th IEEE Conference on Decision and Control (CDC)

Year: 2015

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Extremum seeking control with fractional-order switching technique design for maximum power point tracking in photovoltaic systems

Chun Yin | YangQuan Chen | Brandon Stark | Shou-ming Zhong

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Year: 2015

A neurobotic model of learning to shake a rattle

Forrest Yeh ; Anne S. Warlaumont ; YangQuan Chen ; Timothy M. Shea ;
Brandon Stark

2015 Joint IEEE International Conference on Development and Learning and
Epigenetic Robotics (ICDL-EpiRob)

Year: 2015

Pages: 250 - 251

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Abstract

(1393 Kb)

A neurobotic model of learning to shake a rattle

Forrest Yeh | Anne S. Warlaumont | YangQuan Chen | Timothy M. Shea |
Brandon Stark2015 Joint IEEE International Conference on Development and Learning and
Epigenetic Robotics (ICDL-EpiRob)

Year: 2015

Cyber-physical systems as general distributed parameter systems: three types of fractional order models and emerging research opportunities

Fudong Ge ; YangQuan Chen ; Chunhai Kou
IEEE/CAA Journal of Automatica Sinica

Year: 2015 , Volume: 2 , Issue: 4

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Cyber-physical systems as general distributed parameter systems: three types of fractional order models and emerging research opportunities

Fudong Ge | YangQuan Chen | Chunhai Kou

IEEE/CAA Journal of Automatica Sinica

Year: 2015 | Volume: 2 | Issue: 4

Backstepping dynamic surface control for a class of non-linear systems with time-varying output constraints

Yanan Qiu ; Xiaogeng Liang ; Zhiyong Dai ; Jianxiang Cao ; YangQuan Chen
IET Control Theory & Applications

Year: 2015 , Volume: 9 , Issue: 15

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Abstract (715 Kb)

Backstepping dynamic surface control for a class of non-linear systems with time-varying output constraints

Yanan Qiu | Xiaogeng Liang | Zhiyong Dai | Jianxiong Cao | YangQuan Chen

IET Control Theory & Applications

Year: 2015 | Volume: 9 | Issue: 15

 Multi-UAV-based optimal crop-dusting of anomalously diffusing infestation of crops

Jianxiong Cao ; YangQuan Chen ; Changpin Li

2015 American Control Conference (ACC)

Year: 2015

Pages: 1278 - 1283

IEEE Conferences

Abstract (813 Kb)

Multi-UAV-based optimal crop-dusting of anomalously diffusing infestation of crops

Jianxiong Cao | YangQuan Chen | Changpin Li

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Year: 2015

 Human operator modeling based on fractional order calculus in the manual control system with second-order controlled element

Jiacai Huang ; Yangquan Chen ; Zhuo Li

The 27th Chinese Control and Decision Conference (2015 CCDC)

Year: 2015

Pages: 4902 - 4906

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Human operator modeling based on fractional order calculus in the manual control system with second-order controlled element

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Year: 2015

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Year: 2015 , Volume: 2 , Issue: 3

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Kecai Cao | Yangquan Chen | Dan Stuart | Dong Yue

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Year: 2015 | Volume: 2 | Issue: 3

 An outdoor scientific data drone Ground Truthing Test Site

Brendan Smith ; Brandon Stark ; Tiebiao Zhao ; YangQuan Chen

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