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- I. Introduction
- II. Virtualized Software System
- III. Block-Oriented Model
- IV. Feedback Control Design
- V. Experimental Results

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This paper presents an application of feedback control system for relative performance management in virtualized software system. The system dynamics are characterized in a block-oriented nonlinear system identification. The models are estimated in Hammerstein-Wiener structure. The advantage of this approach is the elimination of nonlinearity impact to the performance management by consolidating nonlinear compensators in the feedback control loop. PI controller parameters are designed based on the step response curve generated from Frequency Sampling Filter functions. The experiments conducted in a two-class of virtual machines environment have shown the control system robustness with a great performance stability in the presence of unpredictable disturbances.

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Contents

I. Introduction

The recent development of virtualization based computing technology leads to an increasing need for better Quality-of Service (QoS) guarantees. It is very crucial to provide reliable services to the users to run their applications on the shared infrastructure. In all respects, the basic concept of a shared resources environment is to accommodate sufficient resource provisioning for the users in virtual machines. However, it turns to be very challenging task when multiple virtual machines (VMs) running applications with different performance objectives and under unpredictable workloads changes. In optimization terms for resource and performance management, a feedback control approach have been identified as a favorable method to maintain the performance management stability [1]. However, dealing with relative performance management objectives of the multi-class shared resource environments, the existence of nonlinear dynamics is the biggest concern. Earlier works in [2], [3] found that the relationship between the performance properties such as response time and throughput (controlled variable) and the resource allocation as the manipulated variable of a single client class is known to be nonlinear.

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Figures 

References 

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Cited by: Papers (2)
- Abstract** [HTML](#)
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Uzair Ijaz Khan; Zhiyong Chen
2016 Australian Control Conference (AuCC)
Year: 2016
- Individualization of stochastic models from population statistics for blood glucose regulation in Type 1 diabetes patients**
Hieu V. Phan; Graham C. Goodwin; Diego S. Carrasco;
Adrian M. Mediolì; Carly Stephen; Arie Feuer
Publication Year: 2016 , Page(s): 4 - 8
Cited by: Papers (3)
- Abstract** [HTML](#)
 Individualization of stochastic models from population statistics for blood glucose regulation in Type 1 diabetes patients
Hieu V. Phan; Graham C. Goodwin; Diego S. Carrasco;
Adrian M. Mediolì; Carly Stephen; Arie Feuer
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Micro air vehicle soaring in urban environments** 
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Reece Clothier; Simon Watkins; Robert Carrese; Milan Simic;
Mujahid Abdulrahim; Jennifer L. Palmer
Publication Year: 2016 , Page(s): 9 - 14
Cited by: Papers (5)

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Alex Fisher; Abdulghani Mohamed; Mohamed Elbenhawi;
Reece Clothier; Simon Watkins; Robert Carrese; Milan Simic;
Mujahid Abdulrahim; Jennifer L. Palmer
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Using indirect inference to identify models of vestibular nerve response in an isolated inner ear** 
Jeremy Stoddard; Robert van Eerdewijk; James Welsh; Aaron Camp;
Alan Brichta
Publication Year: 2016 , Page(s): 15 - 20
Cited by: Papers (1)


▼ Abstract **HTML**  

- Using indirect inference to identify models of vestibular nerve response in an isolated inner ear** 
Jeremy Stoddard; Robert van Eerdewijk; James Welsh;
Aaron Camp; Alan Brichta
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Nonlinear observer based control design for an under-actuated compliant robotic hand** 
Ricardo Garcia-Rosas; Jhon M. Portella-Delgado; Ying Tan;
Dragan Nešić
Publication Year: 2016 , Page(s): 21 - 26


▼ Abstract **HTML**  

- Nonlinear observer based control design for an under-actuated compliant robotic hand** 
Ricardo Garcia-Rosas; Jhon M. Portella-Delgado; Ying Tan;
Dragan Nešić
2016 Australian Control Conference (AuCC)
Year: 2016


-
- On the reachability property for networks of linear time-invariant subsystems** 
Mohsen Zamani; Brett Ninness; Daniel Quevedo
Publication Year: 2016 , Page(s): 27 - 31


▼ Abstract **HTML**  

- On the reachability property for networks of linear time-invariant subsystems** 
Mohsen Zamani; Brett Ninness; Daniel Quevedo
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Self-tuning linear quadratic supervisory regulation of a diesel generator using large-signal state estimation** 
Jesper Knudsen; Jan Bendtsen; Palle Andersen; Kjeld Madsen
Publication Year: 2016 , Page(s): 32 - 37
Cited by: Papers (2)




▼ Abstract **HTML**  


- Self-tuning linear quadratic supervisory regulation of a diesel generator using large-signal state estimation** 
Jesper Knudsen; Jan Bendtsen; Palle Andersen; Kjeld Madsen
2016 Australian Control Conference (AuCC)
Year: 2016




-
- Low-order control design using a novel rank-constrained optimization approach** 
Gabriel Urrutia; Ramón A. Delgado; Juan C. Agüero
Publication Year: 2016 , Page(s): 38 - 42
Cited by: Papers (1)


- ▼ Abstract **HTML**  
- Low-order control design using a novel rank-constrained optimization approach** 
Gabriel Urrutia; Ramón A. Delgado; Juan C. Agüero
2016 Australian Control Conference (AuCC)
Year: 2016




-
- Generalized gramian based frequency interval model reduction for unstable systems** 
Ahmad Jazlan; Victor Sreeram; Roberto Togneri; Ha Binh Minh
Publication Year: 2016 , Page(s): 43 - 47
Cited by: Papers (4)


- ▼ Abstract **HTML**  
- Generalized gramian based frequency interval model reduction for unstable systems** 
Ahmad Jazlan; Victor Sreeram; Roberto Togneri; Ha Binh Minh
2016 Australian Control Conference (AuCC)
Year: 2016

-
- Geometric approach to constrained tracking control** 
Emanuele Garone; Lorenzo Ntogramatzidis; Fabrizio Padula
Publication Year: 2016 , Page(s): 48 - 53


- ▼ Abstract **HTML**  
- A geometric approach to constrained tracking control** 
Emanuele Garone; Lorenzo Ntogramatzidis; Fabrizio Padula
2016 Australian Control Conference (AuCC)
Year: 2016

-
- Leader-following consensus in nonlinear multi-agent systems with nonidentical dynamics in networked environments** 
Lei Ding; Wei Xing Zheng
Publication Year: 2016 , Page(s): 54 - 59

- ▼ Abstract **HTML**  
- Leader-following consensus in nonlinear multi-agent systems with nonidentical dynamics in networked environments** 
Lei Ding; Wei Xing Zheng
2016 Australian Control Conference (AuCC)
Year: 2016


-
- A hybrid model of networked control systems implemented on WirelessHART networks under source routing configuration** 
Alejandro I. Maass; Dragan Nešić; Peter M. Dower
Publication Year: 2016 , Page(s): 60 - 65
Cited by: Papers (4)


- ▼ Abstract **HTML**  

- A hybrid model of networked control systems implemented on WirelessHART networks under source routing configuration** 
Alejandro I. Maass; Dragan Nešić; Peter M. Dower
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Analysis of discrete-time nonlinear ℓ_2 -gain bounds via dynamic programming** 
Duc N. Tran; Christopher M. Kellett; Peter M. Dower
Publication Year: 2016 , Page(s): 66 - 70


✓ Abstract **HTML**  

- Analysis of discrete-time nonlinear ℓ_2 -gain bounds via dynamic programming** 
Duc N. Tran; Christopher M. Kellett; Peter M. Dower
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Block-oriented nonlinear model based control for relative performance and resource management in virtualized software system** 
Dharma Aryani; Liuping Wang; Tharindu Patikirikorala
Publication Year: 2016 , Page(s): 71 - 76
Cited by: Papers (1)


✓ Abstract **HTML**  

- Block-oriented nonlinear model based control for relative performance and resource management in virtualized software system** 
Dharma Aryani; Liuping Wang; Tharindu Patikirikorala
2016 Australian Control Conference (AuCC)
Year: 2016


-
- A new class of generalized continuous robust control algorithm for arbitrary order systems** 
Jyoti Prakash Mishra; Xinghuo Yu; Mahdi Jalili
Publication Year: 2016 , Page(s): 77 - 80
Cited by: Papers (5)


✓ Abstract **HTML**  

- A new class of generalized continuous robust control algorithm for arbitrary order systems** 
Jyoti Prakash Mishra; Xinghuo Yu; Mahdi Jalili
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Finite time synchronization of networked Kuramoto-like oscillators** 
Xiaoxiang Zhang; Zhiyong Sun; Changbin Yu
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Cited by: Papers (7)


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Xiaoxiang Zhang; Zhiyong Sun; Changbin Yu
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Synchronization of two inverted pendula via dynamic coupling** 
Jonatan Pena Ramirez; Ricardo Cuesta Garcia; Joaquin Alvarez
Publication Year: 2016 , Page(s): 87 - 92
Cited by: Papers (1)




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- Synchronization of two inverted pendula via dynamic coupling 
Jonatan Pena Ramirez; Ricardo Cuesta Garcia; Joaquin Alvarez
2016 Australian Control Conference (AuCC)
Year: 2016




-
- Stabilization of linear 2×2 hyperbolic systems with uncertain coupling coefficients - part I: Identifier-based design** 
Henrik Anfinssen; Ole Morten Aamo
Publication Year: 2016 , Page(s): 93 - 98
Cited by: Papers (19)


- Abstract **HTML**  
- Stabilization of linear 2×2 hyperbolic systems with uncertain coupling coefficients - part I: Identifier-based design 
Henrik Anfinssen; Ole Morten Aamo
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Stabilization of linear 2×2 hyperbolic systems with uncertain coupling coefficients - part II: Swapping design** 
Henrik Anfinssen; Ole Morten Aamo
Publication Year: 2016 , Page(s): 99 - 104
Cited by: Papers (18)


- Abstract **HTML**  
- Stabilization of linear 2×2 hyperbolic systems with uncertain coupling coefficients - part II: Swapping design 
Henrik Anfinssen; Ole Morten Aamo
2016 Australian Control Conference (AuCC)
Year: 2016




-
- Uniform upper bound of the spectrum of rooted graphs** 
Chao Huang; Qingchen Liu; Changbin Yu
Publication Year: 2016 , Page(s): 105 - 109


- Abstract **HTML**  
- Uniform upper bound of the spectrum of rooted graphs 
Chao Huang; Qingchen Liu; Changbin Yu
2016 Australian Control Conference (AuCC)
Year: 2016

-
- Coordinated change detection for UAV formations** 
Troy S. Bruggemann; Jason J. Ford
Publication Year: 2016 , Page(s): 110 - 113


- Abstract **HTML**  
- Coordinated change detection for UAV formations 
Troy S. Bruggemann; Jason J. Ford
2016 Australian Control Conference (AuCC)
Year: 2016




-
- A tutorial on predictive repetitive control** 
Liuping Wang
Publication Year: 2016 , Page(s): 114 - 119
Cited by: Papers (2)


- Abstract **HTML**  
- A tutorial on predictive repetitive control 
Liuping Wang
2016 Australian Control Conference (AuCC)
Year: 2016




-
- Model predictive control of linear time varying systems using Laguerre functions** 
Massoud Hemmasian Etefagh; Mahyar Naraghi; Farzad Towhidkhah;
José De Doná
Publication Year: 2016 , Page(s): 120 - 125
Cited by: Papers (3)


- Abstract **HTML**  
- Model predictive control of linear time varying systems using Laguerre functions** 
Massoud Hemmasian Etefagh; Mahyar Naraghi;
Farzad Towhidkhah; José De Doná
2016 Australian Control Conference (AuCC)
Year: 2016

-
- A methodology for the comparison of traditional MPC and stochastic MPC in the context of the regulation of blood glucose levels in Type 1 diabetics** 
Maria M. Seron; Adrian M. Mediolì; Graham C. Goodwin
Publication Year: 2016 , Page(s): 126 - 131
Cited by: Papers (4)


- Abstract **HTML**  
- A methodology for the comparison of traditional MPC and stochastic MPC in the context of the regulation of blood glucose levels in Type 1 diabetics** 
Maria M. Seron; Adrian M. Mediolì; Graham C. Goodwin
2016 Australian Control Conference (AuCC)
Year: 2016




-
- Ascalable QP solver for optimal control of cascades with constraints** 
Michael Cantoni; Farhad Farokhi; Eric Kerrigan; Iman Shames
Publication Year: 2016 , Page(s): 132 - 134
Cited by: Papers (1)


- Abstract  
- A scalable QP solver for optimal control of cascades with constraints** 
Michael Cantoni; Farhad Farokhi; Eric Kerrigan; Iman Shames
2016 Australian Control Conference (AuCC)
Year: 2016

-
- MPC in high-speed atomic force microscopy** 
M. S. Rana; H. R. Pota; I. R. Petersen
Publication Year: 2016 , Page(s): 135 - 140
Cited by: Papers (2)


- Abstract **HTML**  
- MPC in high-speed atomic force microscopy** 
M. S. Rana; H. R. Pota; I. R. Petersen
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Control of rivers with flood avoidance** 
Hasan Arshad Nasir; Algo Carè; Erik Weyer
Publication Year: 2016 , Page(s): 141 - 146
Cited by: Papers (1)

- Abstract **HTML**  
- Control of rivers with flood avoidance** 
Hasan Arshad Nasir; Algo Carè; Erik Weyer
2016 Australian Control Conference (AuCC)
Year: 2016


-
- A game-theoretic approach to distributed scheduling of rigid demands on dynamical systems** 
Farhad Farokhi; Michael Cantoni; Iman Shames
Publication Year: 2016 , Page(s): 147 - 152
Cited by: Papers (2)


▼ Abstract **HTML**  

- A game-theoretic approach to distributed scheduling of rigid demands on dynamical systems** 
Farhad Farokhi; Michael Cantoni; Iman Shames
2016 Australian Control Conference (AuCC)
Year: 2016


-
- A variable gain model-independent algorithm for rendezvous of Euler-Lagrange agents on directed networks** 
Mengbin Ye; Brian D.O. Anderson; Changbin Yu
Publication Year: 2016 , Page(s): 153 - 158


▼ Abstract **HTML**  

- A variable gain model-independent algorithm for rendezvous of Euler-Lagrange agents on directed networks** 
Mengbin Ye; Brian D.O. Anderson; Changbin Yu
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Agreeing over quantum hybrid networks: Centralized and distributed solutions** 
Guodong Shi; Bo Li; Zibo Miao; Peter M. Dower; Matthew R. James
Publication Year: 2016 , Page(s): 159 - 161


▼ Abstract **HTML**  

- Agreeing over quantum hybrid networks: Centralized and distributed solutions** 
Guodong Shi; Bo Li; Zibo Miao; Peter M. Dower; Matthew R. James
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Year: 2016


-
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Publication Year: 2016 , Page(s): 162 - 167

▼ Abstract **HTML**  





















- Model predictive control of distributed air-conditioning loads for mitigation of solar variability** 
Nariman Mahdavi; Julio H. Braslavsky; Maria M. Seron
2016 Australian Control Conference (AuCC)
Year: 2016























-
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Zhiyong Sun; Héctor Garcia de Marina; Brian D. O. Anderson; Ming Cao
Publication Year: 2016 , Page(s): 168 - 173
Cited by: Papers (2)


▼ Abstract **HTML**  

- Quantization effects in rigid formation control** 
Zhiyong Sun; Héctor Garcia de Marina; Brian D. O. Anderson; Ming Cao
2016 Australian Control Conference (AuCC)
Year: 2016

-
- Observer-based synchronization with relative measurements and unknown neighbour models** 

-
- [Abstract](#) [HTML](#)    **Observer-based synchronization with relative measurements and unknown neighbour models**
Jingbo Wu; Valery Ugrinovskii; Frank Allgöwer
2016 Australian Control Conference (AuCC)
Year: 2016
-
- Discrete-time one-step ahead prediction control (DOPC) of a Quadcopter UAV with constraints** 
Xi Chen; Liuping Wang
Publication Year: 2016 , Page(s): 180 - 185
Cited by: Papers (1)
- [Abstract](#) [HTML](#)    **Discrete-time one-step ahead prediction control (DOPC) of a Quadcopter UAV with constraints**
Xi Chen; Liuping Wang
2016 Australian Control Conference (AuCC)
Year: 2016
-
- Extending the Harris Index performance assessment technique: A plant-wide focus** 
Gerrad Duffy; Peter Mills; Qin Li; Ljubo Vlacic
Publication Year: 2016 , Page(s): 186 - 191
Cited by: Papers (2)
- [Abstract](#) [HTML](#)    **Extending the Harris Index performance assessment technique: A plant-wide focus**
Gerrad Duffy; Peter Mills; Qin Li; Ljubo Vlacic
2016 Australian Control Conference (AuCC)
Year: 2016
-
- Inverse two-player zero-sum dynamic games** 
Dorian Tsai; Timothy L. Molloy; Tristan Perez
Publication Year: 2016 , Page(s): 192 - 196
Cited by: Papers (4)
- [Abstract](#) [HTML](#)    **Inverse two-player zero-sum dynamic games**
Dorian Tsai; Timothy L. Molloy; Tristan Perez
2016 Australian Control Conference (AuCC)
Year: 2016
-
- An approximating game for a continuous-time state-constrained linear regulator problem** 
Peter M. Dower; Michael Cantoni
Publication Year: 2016 , Page(s): 197 - 202
Cited by: Papers (1)
- [Abstract](#) [HTML](#)    **An approximating game for a continuous-time state-constrained linear regulator problem**
Peter M. Dower; Michael Cantoni
2016 Australian Control Conference (AuCC)
Year: 2016
-
- Asymptotic quickest change detection and isolation with polynomial delay penalties** 
Timothy L. Molloy
Publication Year: 2016 , Page(s): 203 - 207

- [Abstract](#) [HTML](#)  
- Asymptotic quickest change detection and isolation with polynomial delay penalties** 
- Timothy L. Molloy
2016 Australian Control Conference (AuCC)
Year: 2016
-
- An optimal linear prediction filter for discrete-time linear additive hybrid systems** 
- Jason J. Ford
Publication Year: 2016 , Page(s): 208 - 211
- [Abstract](#) [HTML](#)  
- An optimal linear prediction filter for discrete-time linear additive hybrid systems** 
- Jason J. Ford
2016 Australian Control Conference (AuCC)
Year: 2016
-
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- Anna Skobeleva; Valeri Ugrinovskii; Ian Petersen
Publication Year: 2016 , Page(s): 212 - 216
Cited by: Papers (5)
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- Extended Kalman Filter for indoor and outdoor localization of a wheeled mobile robot** 
- Anna Skobeleva; Valeri Ugrinovskii; Ian Petersen
2016 Australian Control Conference (AuCC)
Year: 2016
-
- An optimization-based algorithm for model selection using an approximation of Akaike's Information Criterion** 
- Rodrigo Carvajal; Gabriel Urrutia; Juan C. Agüero
Publication Year: 2016 , Page(s): 217 - 220
Cited by: Papers (3)
- [Abstract](#) [HTML](#)  
- An optimization-based algorithm for model selection using an approximation of Akaike's Information Criterion** 
- Rodrigo Carvajal; Gabriel Urrutia; Juan C. Agüero
2016 Australian Control Conference (AuCC)
Year: 2016
-
- Strong consistency of kernel-based local variable selection for nonlinear nonparametric systems** 
- Wenxiao Zhao; Han-Fu Chen; Er-Wei Bai; Kang Li
Publication Year: 2016 , Page(s): 221 - 225
- [Abstract](#) [HTML](#)  
- Strong consistency of kernel-based local variable selection for nonlinear nonparametric systems** 
- Wenxiao Zhao; Han-Fu Chen; Er-Wei Bai; Kang Li
2016 Australian Control Conference (AuCC)
Year: 2016
-
- Parameter estimation with binary observations of input and output signals** 
- Yanbo Lian; Zhihao Luo; Erik Weyer; Girish N. Nair
Publication Year: 2016 , Page(s): 226 - 231
Cited by: Papers (3)
- [Abstract](#) [HTML](#)  


- Parameter estimation with binary observations of input and output signals** 

Yanbo Lian; Zhihao Luo; Erik Weyer; Girish N. Nair
2016 Australian Control Conference (AuCC)
Year: 2016

- Application of point processes estimation to a Metro system** 

Jose L. Allende-Bustamante; Juan I. Yuz; Juan Rodó
Publication Year: 2016 , Page(s): 232 - 237
Cited by: Papers (1)

▼ Abstract **HTML**  


- Application of point processes estimation to a Metro system** 

Jose L. Allende-Bustamante; Juan I. Yuz; Juan Rodó
2016 Australian Control Conference (AuCC)
Year: 2016


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Hongchen Chen; Zongze Wu; Shaoyi Du; Nan Zhou; Jing Sun
Publication Year: 2016 , Page(s): 238 - 242
Cited by: Papers (2)

▼ Abstract **HTML**  


- Robust scale iterative closest point algorithm based on correntropy for point set registration** 

Hongchen Chen; Zongze Wu; Shaoyi Du; Nan Zhou; Jing Sun
2016 Australian Control Conference (AuCC)
Year: 2016

- Stochastic design of switching controller for quadrotor UAV under intermittent localization** 

Henrik Schioler; John Leth; Tobias Leth; Luminita Totu
Publication Year: 2016 , Page(s): 243 - 248
Cited by: Papers (3)

▼ Abstract **HTML**  


- Stochastic design of switching controller for quadrotor UAV under intermittent localization** 

Henrik Schioler; John Leth; Tobias Leth; Luminita Totu
2016 Australian Control Conference (AuCC)
Year: 2016

- Measurement feedback control for networked control systems with packet dropout and input delay** 

Xiao Liang; Juanjuan Xu; Huanshui Zhang
Publication Year: 2016 , Page(s): 249 - 252

▼ Abstract **HTML**  


- Measurement feedback control for networked control systems with packet dropout and input delay** 


Xiao Liang; Juanjuan Xu; Huanshui Zhang
2016 Australian Control Conference (AuCC)
Year: 2016

- Plantwide analysis of large-scale stochastic linear discrete-time systems** 


Ruigang Wang; Jie Bao
Publication Year: 2016 , Page(s): 253 - 257


▼ Abstract **HTML**  

- Plantwide analysis of large-scale stochastic linear discrete-time systems** 
Ruigang Wang; Jie Bao
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Sampled-data stabilization for a class of stochastic nonlinear systems based on the approximate discrete-time models** 
Xinxin Fu; Yu Kang; Pengfei Li
Publication Year: 2016 , Page(s): 258 - 263


▼ Abstract [HTML](#)  

- Sampled-data stabilization for a class of stochastic nonlinear systems based on the approximate discrete-time models** 
Xinxin Fu; Yu Kang; Pengfei Li
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Mean-square stabilization for discrete-time networked control system with random delay** 
Junhui Li; Weizhou Su
Publication Year: 2016 , Page(s): 264 - 269


▼ Abstract [HTML](#)  

- Mean-square stabilization for discrete-time networked control system with random delay** 
Junhui Li; Weizhou Su
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Control of distributed energy storage systems in residential microgrids** 
Xinan Zhang; Ruigang Wang; Jie Bao; Maria Skyllas-Kazacos
Publication Year: 2016 , Page(s): 270 - 275


▼ Abstract [HTML](#)  

- Control of distributed energy storage systems in residential microgrids** 
Xinan Zhang; Ruigang Wang; Jie Bao; Maria Skyllas-Kazacos
2016 Australian Control Conference (AuCC)
Year: 2016

-
- An economic MPC approach to microgrid control** 
Will C. Clarke; Chris Manzie; Michael J. Brear
Publication Year: 2016 , Page(s): 276 - 281
Cited by: Papers (11)


▼ Abstract [HTML](#)  

- An economic MPC approach to microgrid control** 
Will C. Clarke; Chris Manzie; Michael J. Brear
2016 Australian Control Conference (AuCC)
Year: 2016


-
- Transient climate response in the DICE integrated assessment model of climate-economy** 
Salman Hafeez; Steven R. Weller; Christopher M. Kellett
Publication Year: 2016 , Page(s): 282 - 287
Cited by: Papers (2)


▼ Abstract [HTML](#)  

- Transient climate response in the DICE integrated assessment model of climate-economy** 
Salman Hafeez; Steven R. Weller; Christopher M. Kellett
2016 Australian Control Conference (AuCC)
Year: 2016
-


- A framework for reference generation and control in AFM imaging** 
Kaixiang Wang; Chris Manzie; Dragan Nešić
Publication Year: 2016 , Page(s): 288 - 293
Cited by: Papers (1)


▼ Abstract **HTML**  

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Kaixiang Wang; Chris Manzie; Dragan Nešić
2016 Australian Control Conference (AuCC)
Year: 2016
-


- Characterization of the wind impact on the Torrumbarry irrigation district and its implications for control** 
Marzia Cescon; Erik Weyer
Publication Year: 2016 , Page(s): 294 - 298
Cited by: Papers (2)


▼ Abstract **HTML**  

- Characterization of the wind impact on the Torrumbarry irrigation district and its implications for control** 
Marzia Cescon; Erik Weyer
2016 Australian Control Conference (AuCC)
Year: 2016
-


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Michael Lees
Publication Year: 2016 , Page(s): 299 - 304
Cited by: Papers (2)


▼ Abstract **HTML**  

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2016 Australian Control Conference (AuCC)
Year: 2016
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