

New Predictive Control Scheme for Networked Control Systems

Bo Liu · Yuanqing Xia · Magdi S. Mahmoud ·
Harris Wu · Shisheng Cui

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Abstract This paper is concerned with the design of networked control systems with random network-induced delay and data dropout. It presents a new control scheme, which is termed networked predictive control with optimal estimation. Based on Multirate Kalman Filtering, the measured data which are out of sequence or delayed can be used to improve the precision of estimation. The control prediction generator provides a set of future control predictions to make the closed-loop system achieve the desired control performance and the compensator removes the effects of the network transmission with time delay and data dropout. Simulation results are presented to illustrate the effectiveness of the control strategy via comparing with control schemes without any compensation for the network.

B. Liu · Y. Xia (✉)
Department of Automatic Control, Beijing Institute of Technology, Beijing 100086, China
e-mail: xia_yuanqing@bit.edu.cn

B. Liu
e-mail: bo.liu.777@gmail.com

M.S. Mahmoud
Systems Engineering Department, King Fahd University of Petroleum and Minerals, PO Box 5067,
Dhahran 31261, Saudi Arabia
e-mail: msmahmoud@kfupm.edu.sa

H. Wu
College of Business and Public Administration, Old Dominion University, Norfolk, VA 23529, USA
e-mail: hwu@odu.edu

S. Cui
Computer Science Department, Stanford University, Stanford, CA 94305, USA
e-mail: ivancui@stanford.edu

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Table of Contents New Predictive Control Scheme For Networked Control Systems

1. Understanding the eBook New Predictive Control Scheme For Networked Control Systems
 - The Rise of Digital Reading New Predictive Control Scheme For Networked Control Systems
 - Advantages of eBooks Over Traditional Books
2. Identifying New Predictive Control Scheme For Networked Control Systems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a New Predictive Control Scheme For Networked Control Systems
 - User-Friendly Interface
4. Exploring eBook Recommendations from New Predictive Control Scheme For Networked Control Systems
 - Personalized Recommendations
 - New Predictive Control Scheme For Networked Control Systems User Reviews and Ratings
 - New Predictive Control Scheme For Networked Control Systems and Bestseller Lists
5. Accessing New Predictive Control Scheme For Networked Control Systems Free and Paid eBooks
 - New Predictive Control Scheme For Networked Control Systems Public Domain eBooks
 - New Predictive Control Scheme For Networked Control Systems eBook Subscription Services
 - New Predictive Control Scheme For Networked Control Systems Budget-Friendly Options

6. Navigating New Predictive Control Scheme For Networked Control Systems eBook Formats
 - ePub, PDF, MOBI, and More
 - New Predictive Control Scheme For Networked Control Systems Compatibility with Devices
 - New Predictive Control Scheme For Networked Control Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of New Predictive Control Scheme For Networked Control Systems
 - Highlighting and Note-Taking New Predictive Control Scheme For Networked Control Systems
 - Interactive Elements New Predictive Control Scheme For Networked Control Systems
8. Staying Engaged with New Predictive Control Scheme For Networked Control Systems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers New Predictive Control Scheme For Networked Control Systems
9. Balancing eBooks and Physical Books New Predictive Control Scheme For Networked Control Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection New Predictive Control Scheme For Networked Control Systems
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine New Predictive Control Scheme For Networked Control Systems
 - Setting Reading Goals New Predictive Control Scheme For Networked Control Systems
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of New Predictive Control Scheme For Networked Control Systems
 - Fact-Checking eBook Content of New Predictive Control Scheme For Networked Control Systems
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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