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The State of Computer-Aided Control System Design (CACSD)

John James, Francois Cellier, Grantham Pang, John Gray, and Sven Erik Mattsson

In this special issue we have tried to provide a sample of the broad range of research activities seeking to provide theoretical foundations and software engineering tools to help control engineers understand and overcome challenges in building computer-controlled devices.

Papers include application of commercially-available software engineering environments to compare alternative PID anti-windup strategies (Bolin and Atherton), to use parallelization to investigate multiobjective optimizations (Chipperfield and Fleming), and to improve control of a commercial polymerization reactor (Oguzmaier). Object-oriented research topics range from creating a fourth-generation language for guidance, navigation, and control problems (Engelhart and Jackson) to a focus on symbolic and numerical computations (Polyakov, Ghasseini,

and Blankenship) to support for controlling mechatronic systems (Katz and Richert) to support for controlling more general systems (Gröbel).

Finally, hybrid systems is an emerging subject area that provides a new look at a recurring issue in control science: the appropriate division of control activities between analog and digital portions of the controlled system. Hybrid systems are those systems that exhibit both continuous and discrete states. Hybrid systems papers include discussion of a separation principle for hybrid control system design (Benscne and Franklin) and discussion of initial thoughts on creation of a software engineering environment for hybrid systems (Kobus et al.).

As computer-controlled systems become ever larger and more complex, the difficulties of achieving performance objectives in the presence of disturbances and modeling uncertainties become ever more challenging. The multidisciplinary nature of modeling and simulation to achieve product and process understanding in diverse application areas such as discrete manufacturing, tele-

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Table of Contents Computer Aided Control System Design

1. Understanding the eBook Computer Aided Control System Design
 - The Rise of Digital Reading Computer Aided Control System Design
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Aided Control System Design
 - 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 an Computer Aided Control System Design
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Aided Control System Design
 - Personalized Recommendations
 - Computer Aided Control System Design User Reviews and Ratings
 - Computer Aided Control System Design and Bestseller Lists

5. Accessing Computer Aided Control System Design Free and Paid eBooks
 - Computer Aided Control System Design Public Domain eBooks
 - Computer Aided Control System Design eBook Subscription Services
 - Computer Aided Control System Design Budget-Friendly Options
6. Navigating Computer Aided Control System Design eBook Formats
 - ePub, PDF, MOBI, and More
 - Computer Aided Control System Design Compatibility with Devices
 - Computer Aided Control System Design Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computer Aided Control System Design
 - Highlighting and Note-Taking Computer Aided Control System Design
 - Interactive Elements Computer Aided Control System Design
8. Staying Engaged with Computer Aided Control System Design
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Aided Control System Design
9. Balancing eBooks and Physical Books Computer Aided Control System Design
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Aided Control System Design
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Computer Aided Control System Design
 - Setting Reading Goals Computer Aided Control System Design
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computer Aided Control System Design
 - Fact-Checking eBook Content of Computer Aided Control System Design
 - 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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