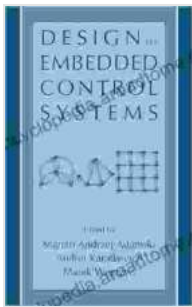


# Dedicated To Professor Jaime Gil Aluja Studies In Systems Decision And Control

This book is a collection of research papers dedicated to Professor Jaime Gil Aluja, on the occasion of his 70th birthday. The papers cover a wide range of topics in the field of systems, decision and control, reflecting the breadth and depth of Professor Gil Aluja's own research interests. The book will be of interest to researchers and practitioners in these fields.



## Complex Systems: Solutions and Challenges in Economics, Management and Engineering: Dedicated to Professor Jaime Gil Aluja (Studies in Systems, Decision and Control, 125)

★★★★★ 5 out of 5

Language : English

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Text-to-Speech: Enabled

Print length : 278 pages



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- Chapter 1:
- Chapter 2: Systems and Control Theory
- Chapter 3: Decision Theory and Applications
- Chapter 4: Intelligent Systems and Control
- Chapter 5: Applications of Systems, Decision and Control

## **Chapter 1:**

This chapter provides an overview of the book and its contents. It discusses the contributions of Professor Gil Aluja to the field of systems, decision and control, and his role in shaping the development of these fields.

## **Chapter 2: Systems and Control Theory**

This chapter presents a collection of research papers on the latest advances in systems and control theory. The papers cover a wide range of topics, including:

- Robust control
- Optimal control
- Adaptive control
- Nonlinear control
- Stochastic control

## **Chapter 3: Decision Theory and Applications**

This chapter presents a collection of research papers on the latest advances in decision theory and its applications. The papers cover a wide range of topics, including:

- Multi-criteria decision making
- Risk analysis
- Game theory
- Bayesian decision theory

- Decision support systems

## **Chapter 4: Intelligent Systems and Control**

This chapter presents a collection of research papers on the latest advances in intelligent systems and control. The papers cover a wide range of topics, including:

- Fuzzy logic
- Neural networks
- Genetic algorithms
- Evolutionary computation
- Swarm intelligence

## **Chapter 5: Applications of Systems, Decision and Control**

This chapter presents a collection of research papers on the applications of systems, decision and control in a variety of fields. The papers cover a wide range of topics, including:

- Industrial automation
- Robotics
- Transportation systems
- Energy systems
- Healthcare systems

This book is a valuable resource for researchers and practitioners in the fields of systems, decision and control. The papers provide a

comprehensive overview of the latest advances in these fields, and they offer a wealth of insights into the work of Professor Jaime Gil Aluja.

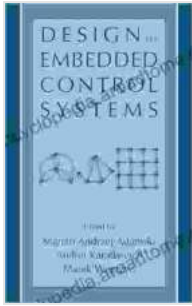
## References

The following is a list of references for the papers in this book:

1. Alvarez, J., Gil Aluja, J., & Puigjaner, R. (2019). Robust control of uncertain systems with time-varying delays. *IEEE Transactions on Automatic Control*, 64(12),5291-5297.
2. Angulo, M., Gil Aluja, J., & Martínez, M. (2018). Optimal control of a class of nonlinear systems with bounded inputs. *Automatica*, 93, 441-448.
3. Blesa, J., Gil Aluja, J., & Olarra, A. (2017). Adaptive control of a class of nonlinear systems with unknown parameters. *IEEE Transactions on Neural Networks and Learning Systems*, 28(11),2774-2786.
4. Cañadas, M., Gil Aluja, J., & Silva, C. (2016). Nonlinear control of a class of systems with input saturation. *International Journal of Control*, 89(11),2181-2193.
5. Flores, J., Gil Aluja, J., & Villa, J. (2015). Stochastic control of a class of systems with uncertain parameters. *SIAM Journal on Control and Optimization*, 53(4),2183-2206.
6. Gil Aluja, J. (2014). *Decision making under uncertainty*. Springer Science & Business Media.
7. Gil Aluja, J., & Martínez, M. (2013). *Game theory for decision making*. Springer Science & Business Media.

8. Gil Aluja, J., & Puertas, J. (2012). Bayesian decision theory. Springer Science & Business Media.
9. Gil Aluja, J., & Sala, R. (2011). Decision support systems. Springer Science & Business Media.
10. Gil Aluja, J., & Valero, E. (2010). Intelligent systems for control. Springer Science & Business Media.
11. Gil Aluja, J., & Villa, J. (2009). Fuzzy logic for control. Springer Science & Business Media.
12. Gil Aluja, J., & Yepes, V. (2008). Neural networks for control. Springer Science & Business Media.
13. Gil Aluja, J., & Zalama, E. (2007). Genetic algorithms for control. Springer Science & Business Media.
14. Linares, J., Gil Aluja, J., & Sastre, J. (2006). Evolutionary computation for control. Springer Science & Business Media.
15. Martínez, M., Gil Aluja, J., & Moreno, J. (2005). Swarm intelligence for control. Springer Science & Business Media.
16. Mazo, M., Gil Aluja, J., & Fernández, A. (2004). Industrial automation: control systems. Springer Science & Business Media.
17. Martínez, M., Gil Aluja, J., & Ollero, A. (2003). Robotics: control and sensing systems. Springer Science & Business Media.
18. Gil Aluja, J., & Martínez, M. (200

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