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| Collana | Automation-control and industrial engineering series |
| Altri autori (Persone) | LeVu Tuan Hieu
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| Disciplina | 629.8 |
| Soggetti | Automatic control
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| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Cover; Title page; Contents; Notations; Acronyms; Introduction; Chapter 1. Uncertainty Representation Based on Set Theory; 1.1. Basic set definitions: advantages and weaknesses; 1.1.1. Interval set; 1.1.2. Ellipsoidal set; 1.1.3. Polyhedral set; 1.1.4. Zonotopic set; 1.2. Main properties of zonotopes; Chapter 2. Several Approaches on Zonotopic Guaranteed Set-Membership Estimation; 2.1. Context; 2.2. Problem formulation; 2.2.1. Singular Value Decomposition-based method 35; 2.2.2. Optimization-based methods; Chapter 3. Zonotopic Guaranteed State Estimation Based on P-Radius Minimization
3.1. Single-Output systems approach3.2. Multi-Output systems approaches; 3.2.1. General formulation; 3.2.2. Extensions of the Single-Output systems methodology; 3.2.3. Dedicated approach for Multi-Output systems; Chapter 4. Tube Model Predictive Control Based on Zonotopic Set-Membership Estimation; 4.1. Context; 4.2. Problem formulation; 4.3. Tube-based output feedback Model Predictive Control design; 4.4. Application on the magnetic levitation system; 4.4.1. System description; 4.4.2. Control problem; Conclusion and |

Perspectives; Appendix. Basic Matrix Operation Definitions; Bibliography
Index

Sommario/riassunto	This title focuses on two significant problems in the field of automatic control, in particular state estimation and robust Model Predictive Control under input and state constraints, bounded disturbances and measurement noises. The authors build upon previous results concerning zonotopic set-membership state estimation and output feedback tube-based Model Predictive Control. Various existing zonotopic set-membership estimation methods are investigated and their advantages and drawbacks are discussed, making this book suitable both for researchers working in automatic control and industrial pa

2.	Record Nr.	UNIORUON00152069
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