

Information and Control in Networks

Original

Information and Control in Networks / Como, G.; Bernhardsson, B.; Rantzer, A.. - STAMPA. - 450:(2014).

Availability:

This version is available at: 11583/2831672 since: 2020-06-02T06:58:22Z

Publisher:

Springer Verlag

Published

DOI:

Terms of use:

This article is made available under terms and conditions as specified in the corresponding bibliographic description in the repository

Publisher copyright

Springer postprint/Author's Accepted Manuscript

(Article begins on next page)

Contents

Part I Control with Information Constraints

1	Elements of Information Theory for Networked Control Systems	3
	Massimo Franceschetti and Paolo Minero	
2	Stabilization and Control over Gaussian Networks	39
	Ali A. Zaidi, Tobias J. Oechtering, Serdar Yüksel, and Mikael Skoglund	
3	Optimal Radio-Mode Switching for Wireless Networked Control	87
	Nicolas Cardoso de Castro, Federica Garin, and Carlos Canudas de Wit	

Part II Stochastic Networked Control and Estimation

4	The Common-Information Approach to Decentralized Stochastic Control	123
	Ashutosh Nayyar, Aditya Mahajan, and Demosthenis Teneketzis	
5	Relations Between Information and Estimation in the Presence of Feedback	157
	Himanshu Asnani, Kartik Venkat, and Tsachy Weissman	
6	Design of Information Channels for Optimization and Stabilization in Networked Control	177
	Serdar Yüksel	

Part III Information in Networks

7	Structural Routability of n-Pairs Information Networks	215
	Girish N. Nair	
8	Computing over Unreliable Communication Networks	241
	Nicola Elia, Jing Wang, and Andalarn Satya Mohan Vamsi	
9	On the Conditional Mutual Information in the Gaussian–Markov Structured Grids	277
	Hanie Sedghi and Edmond Jonckheere	

Author Index	299
Subject Index	305



<http://www.springer.com/978-3-319-02149-2>

Information and Control in Networks

Como, G.; Bernhardsson, B.; Rantzer, A. (Eds.)

2014, XIV, 306 p. 73 illus., 37 illus. in color., Softcover

ISBN: 978-3-319-02149-2