Minimax Robustness in Signal Processing for Communications
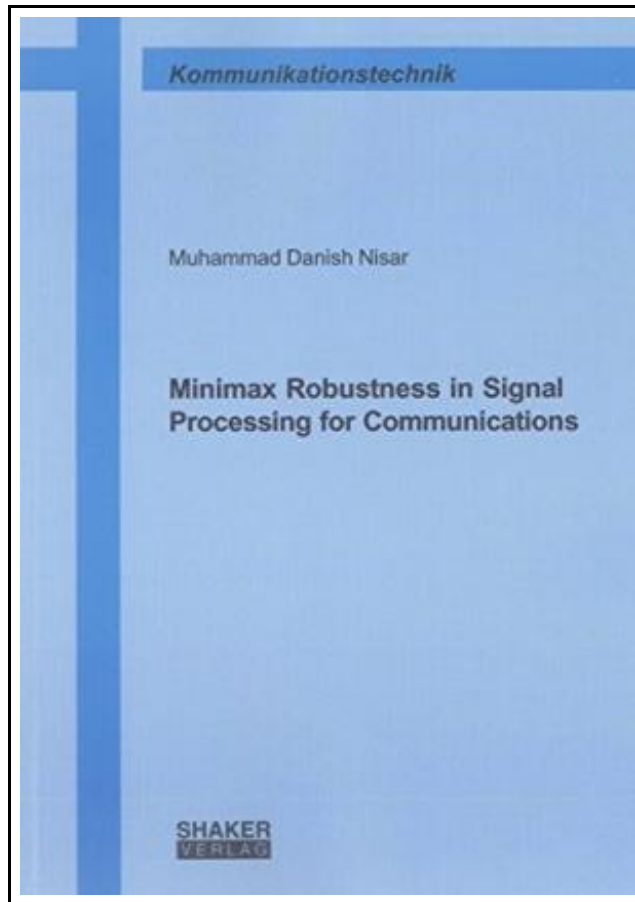
Kommunikationstechnik

Muhammad Danish Nisar

Minimax Robustness in Signal Processing for Communications

SHAKER VERLAG

Filesize: 8.75 MB

Reviews

Absolutely one of the best book I have ever study. It is actually writter in simple terms rather than confusing. I realized this pdf from my dad and i suggested this pdf to understand.
(Garry Quigley)

MINIMAX ROBUSTNESS IN SIGNAL PROCESSING FOR COMMUNICATIONS

Shaker Verlag Aug 2011, 2011. Taschenbuch. Book Condition: Neu. 208x149x15 mm. Neuware - From a signal processing for communications perspective, three fundamental transceiver design components are the channel precoder, the channel estimator, and the channel equalizer. The optimal design of these blocks is typically formulated as an optimization problem with a certain objective function, and a given constraint set. However, besides the objective function and the constraint set, their optimal design crucially depends upon the adopted system model and the assumed system state. While, optimization under a perfect knowledge of these underlying parameters (system model and state) is relatively straight forward and well explored, the optimization under their imperfect (partial or uncertain) knowledge is more involved and cumbersome. Intuitively, the central question that arises here is: should we fully trust the available imperfect knowledge of the underlying parameters, should we just ignore it, or should we go for an 'intermediate' approach In this dissertation, we explore the concept of minimax robustness, that falls under the generic framework of deterministic optimization under uncertainty, for the aforementioned design problems under an imperfect knowledge of the underlying parameters. First, we present the design of a minimax robust precoder under an uncertain knowledge of the transmission channel, pursued via minimax optimization with a novel uncertainty class that aims to reduce the conservativeness of the existing robust precoder designs. Second, we discuss the design of a channel equalizer that is robust against uncertainty in the knowledge of the transmission channel as well as the interference and noise correlations, and simultaneously is able to exploit the apriori information about the unknown transmit symbols. Third, we investigate the problem of pilot assisted channel estimation, and present the design of a novel minimax robust channel estimator, once only a coarse knowledge about channel correlations is available. Thus, this...

Read Minimax Robustness in Signal Processing for Communications Online

Download PDF Minimax Robustness in Signal Processing for Communications

Relevant PDFs

Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

[Read ePub »](#)

Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

[Read ePub »](#)

Read Write Inc. Phonics: Pink Set 3 Storybook 4 the Dressing Up Box (Paperback)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 187 x 133 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

[Read ePub »](#)

Have You Locked the Castle Gate?

Addison-Wesley Professional. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Is your computer safe Could an intruder sneak in and steal...

[Read ePub »](#)

The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book...

[Read ePub »](#)

Yearbook Volume 15

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 58 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.This historic book may have numerous typos and missing text. Purchasers can usually download a free

Read Write Inc. Phonics: Green Set 1 Non-Fiction 2 We Can All Swim! (Paperback)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 217 x 115 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

Genuine book Oriental fertile new version of the famous primary school enrollment program: the intellectual development of pre-school Jiang(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2012-09-01 Pages: 160 Publisher: the Jiangxi University Press Welcome Salan. service

The Mystery in Chocolate Town: Hershey, Pennsylvania

Gallopade International. Paperback. Book Condition: New. Paperback. 145 pages. Dimensions: 7.4in. x 5.2in. x 0.4in.When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are an

9787111391760HTML5 game developed combat (Huazhang programmers stacks) (clear and full(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2012-07-01 Pages: 260 Publisher: Machinery Industry Press title: HTML5 game development