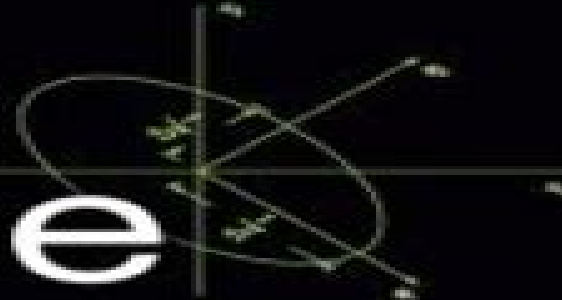




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Adaptive Filtering

Fundamentals of Least Mean Squares with MATLAB®



Alexander D. Poularikas

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achievements using all proposed techniques This book is intended to provide rigorous use of adaptive signal processing algorithms for genetic engineering biomedical engineering and bioinformatics and is useful for undergraduate and postgraduate students This will also serve as a practical guide for Ph D students and researchers and will provide a number of research directions for further work Features Presents an overview of genomics engineering structure of DNA sequence and its building blocks genetic information flow in a cell gene prediction along with its significance and various types of gene prediction methods Covers various theoretical considerations of adaptive filtering techniques used for DNA analysis introduction to adaptive filtering properties of adaptive algorithms need for development of adaptive exon predictors AEPs and structure of AEP used for DNA analysis Extends the approach of LMS algorithm and its sign based realizations with normalization factor for DNA analysis Presents the normalized logarithmic based realizations of LMLS and LLAD adaptive algorithms that include normalized LMLS NLMLS algorithm normalized LLAD NLLAD algorithm and their signed variants Provides an overview of the goals achieved and highlights the primary achievements using all proposed techniques Dr Md Zia Ur Rahman is a professor in the Department of Electronics and Communication Engineering at Koneru Lakshmaiah Educational Foundation K L University Guntur India His current research interests include adaptive signal processing biomedical signal processing genetic engineering medical imaging array signal processing medical telemetry and nanophotonics Dr Srinivasareddy Putluri is currently a Software Engineer at Tata Consultancy Services Ltd Hyderabad He received his Ph D degree Genomic Signal Processing using Adaptive Signal Processing algorithms from the Department of Electronics and Communication Engineering at Koneru Lakshmaiah Educational Foundation K L University Guntur India His research interests include genomic signal processing and adaptive signal processing He has published 15 research papers in various journals and proceedings He is currently a reviewer of publishers like the IEEE Access and IGI

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