



# **CYCLOSTATIONARITY**

**IN COMMUNICATIONS  
AND SIGNAL PROCESSING**

EDITED BY WILLIAM A. GARDNER

# Cyclostationarity In Communications And Signal Processing

**IEEE Signal Processing Society**



## **Cyclostationarity In Communications And Signal Processing:**

**Cyclostationarity in Communications and Signal Processing** William A. Gardner,1994 From this book you will learn new concepts methods and algorithms for performing signal processing tasks and designing and analyzing communications systems

**Generalizations of Cyclostationary Signal Processing** Antonio Napolitano,2012-12-07 The relative motion between the transmitter and the receiver modifies the nonstationarity properties of the transmitted signal In particular the almost cyclostationarity property exhibited by almost all modulated signals adopted in communications radar sonar and telemetry can be transformed into more general kinds of nonstationarity A proper statistical characterization of the received signal allows for the design of signal processing algorithms for detection estimation and classification that significantly outperform algorithms based on classical descriptions of signals Generalizations of Cyclostationary Signal Processing addresses these issues and includes the following key features Presents the underlying theoretical framework accompanied by details of their practical application for the mathematical models of generalized almost cyclostationary processes and spectrally correlated processes two classes of signals finding growing importance in areas such as mobile communications radar and sonar Explains second and higher order characterization of nonstationary stochastic processes in time and frequency domains Discusses continuous and discrete time estimators of statistical functions of generalized almost cyclostationary processes and spectrally correlated processes Provides analysis of mean square consistency and asymptotic Normality of statistical function estimators Offers extensive analysis of Doppler channels owing to the relative motion between transmitter and receiver and or surrounding scatterers Performs signal analysis using both the classical stochastic process approach and the functional approach where statistical functions are built starting from a single function of time

**Cyclostationary Processes and Time Series** Antonio Napolitano,2019-10-24 Many processes in nature arise from the interaction of periodic phenomena with random phenomena The results are processes that are not periodic but whose statistical functions are periodic functions of time These processes are called cyclostationary and are an appropriate mathematical model for signals encountered in many fields including communications radar sonar telemetry acoustics mechanics econometrics astronomy and biology Cyclostationary Processes and Time Series Theory Applications and Generalizations addresses these issues and includes the following key features Presents the foundations and developments of the second and higher order theory of cyclostationary signals Performs signal analysis using both the classical stochastic process approach and the functional approach for time series Provides applications in signal detection and estimation filtering parameter estimation source location modulation format classification and biological signal characterization Includes algorithms for cyclic spectral analysis along with Matlab Octave code Provides generalizations of the classical cyclostationary model in order to account for relative motion between transmitter and receiver and describe irregular statistical cyclicity in the data     Cyclostationary Signal Processing for Narrowband Power Line Communications Nir

Shlezinger, 2017 The growing interest in smart grid applications has drawn considerable attention to power line communications PLC as a central communications medium for smart grids Specifically network control and grid applications are allocated the frequency band of 0 500 kHz commonly referred to as the narrowband PLC channel As this frequency band is characterized by strong cyclostationary noise multipath signal propagation and periodically time varying channel conditions narrowband PLC channels fall into the class of periodic channels with finite memory In this dissertation we study communications over periodic channels with finite memory utilizing the theory of cyclostationary processes to address two major aspects information theoretic performance bounds and practical algorithms for realizing the predicted performance gains In the first part of the dissertation we study the fundamental rate limits of periodic channels with finite memory focusing on the capacity of point to point PtP periodic channels i e without security constraints as well as the secrecy capacity of periodic wiretap channels i e with security constraints By proving a bijection between PtP periodic channels and time invariant multiple input multiple output MIMO channels with finite memory we characterize the capacity of periodic channels via the capacity of the equivalent time invariant MIMO channels As part of the capacity derivation we characterize the capacity achieving transmission scheme which leads to a practical code construction that approaches capacity Motivated by the bijection between periodic channels and time invariant MIMO channels with finite memory we study the secrecy capacity of time invariant Gaussian MIMO channels with finite memory Although the time invariant Gaussian MIMO channel with finite memory is a very common channel model in wireless communications as well as in wireline communications this is the first time that the secrecy capacity has been characterized for this channel model As the resulting secrecy capacity expression is given by a non convex optimization problem we derive a simple necessary and sufficient condition for positive secrecy capacity and obtain an explicit expression for the secrecy capacity in the scalar case Then we show how our result directly leads to the secrecy capacity of periodic channels In the second part of the dissertation we study practical algorithms which utilize the theory of cyclostationarity to approach the predicted performance gains in periodic channels First we propose a receiver algorithm for the recovery of orthogonal frequency division multiplexing OFDM modulated signals in periodic channels The proposed receiver uses frequency shift filtering to exploit the cyclostationary properties of both the additive channel noise and the information signal We explicitly derive the coefficients of the filter which minimize the time averaged mean squared error TA MSE and propose an adaptive implementation which is based on the recursive least squares RLS algorithm Numerical simulations show that the proposed receiver demonstrates a substantial performance gain over previously proposed receivers Finally motivated by the fact that most adaptive algorithms such as the least mean squares LMS and the RLS are designed for stationary signals we rigorously study the optimal adaptive filtering of cyclostationary signals We first identify the relevant objective as the TA MSE and obtain an adaptive algorithm which we refer to as time averaged LMS TA LMS as the stochastic approximation of the TA MSE minimizer We provide a comprehensive transient and

steady state performance analysis and derive conditions for convergence and stability which are shown to accurately characterize the performance of the adaptive algorithm in a simulation study abstract      **The IEEE 2000 Adaptive Systems for Signal Processing, Communications, and Control Symposium** ,2000 The proceedings of the Symposium on Adaptive Systems for Signal Processing Communications and Control 2000 It addresses fundamentals of adaptive and learning systems signal processing radar sonar wireless communications pattern recognition chaos and more      **1997 IEEE Workshop on Signal Processing Advances in Wireless Communications** IEEE Signal Processing Society,1997

**Cyclostationary Signal Processing for Communication Systems** Veluppillai Balakrishnar Manimohan,2000      *2000 IEEE International Symposium on Information Theory* IEEE Information Theory Society,2000      *Cognitive Radio Technology* Bruce A. Fette,2009-03-23 The most comprehensive book on cognitive radio technologies bringing together everything a wireless engineer needs to know in this important and growing field      *Signal Processing Workshop on Higher-Order Statistics, June 7-9, 1993, Stanford Sierra Group, South Lake Tahoe, CA, USA. ,1993*      **Detection and Estimation Theory and Its Applications** Thomas A. Schonhoff,Arthur Anthony Giordano,2006 For courses in Estimation and Detection Theory offered in departments of Electrical Engineering This is the first student friendly textbook to comprehensively address the topics of both detection and estimation with a thorough discussion of the underlying theory as well as the practical applications By addressing detection and estimation theory in the same volume the authors encourage a greater appreciation of the strong coupling and often blurring of these fields of study In order to modernize classical topics the text focuses on discrete signal processing with continuous signal presentations included to demonstrate uniformity and consistency of the results      *Journal of Communications and Networks* ,2009      **Proceedings of the ... Conference on Information Sciences and Systems** ,1996      *Proceedings of SPIE--the International Society for Optical Engineering* ,1999

**Cyclostationary Signal Processing in Digital Communication Systems** ,1999 Our focus in this ARO research project is to investigate and study the application of cyclostationary signal processing in digital communication systems We consider several important areas of application including channel equalization co channel interference rejection and antenna beamforming During this report period we developed a number of new algorithm for the blind identification and equalization of multiple input multiple output systems These methods are more robust and accurate than many existing methods Blind separation of signals using both the higher order and second order cyclostationary statistics are studied Several simple methods are proposed We also developed a finite window decorrelator receiver for asynchronous CDMA systems This new algorithm is near far resistant even when the processing window is rather short overcoming the weakness of the conventional decorrelator that relies on large almost infinite window size In another important study we investigate the applicability of blind equalization algorithms in practical wireless cellular systems such as the GSM Since the GSM transmission is nonlinear and is in burst mode blind equalization algorithms must be adopted for this nonlinear modulation

and must converge within each frame of data burst Using a linearization method we simplified the nonlinear GMSK signal into an equivalent linear QAM signal A de rotation scheme further allowed channel diversity be extracted without the need of additional downlink antennae Successful blind equalization and semi blind equalization results for GSM are established

**Signal Processing and Its Applications** N.K. Bose,Calyampudi Radhakrishna Rao,1993-09-07 Hardbound This volume of the Handbook of Statistics presents a state of the art exposition of current topics in signal image processing It provides an excellent balance between both theory and applications The collection of chapters deals with topics such as fast computations and transforms in signal processing sampling theorems parameter estimation and signal modeling image and multidimensional signal processing array processing direction of arrival estimation beamforming adaptive algorithms multiscale signal processing and wavelet transforms Other subjects include VLSI implementations in hardware image gathering and video coding spectrum estimation neural net sensor fusion hidden Markov models with applications in speech recognition design of special types of digital filter structures and innovative methods for performance evaluation of such structures as well as more general systems which are encountered in signal processin     1997 IEEE Tencon IEEE Region 10,IEEE TENCON,Queensland University of Technology,1997 This text covers a 1997 conference on Speech and Image Technologies for Computing and Telecommunications It includes coverage of audio and electroacoustics underwater acoustic signal processing speech signal processing digital signal processing and signal processing applications     **Proceedings of the Trends in Electronics Conference** ,1999     **Conference Record** ,1994     *Evaluation of Least Squares Algorithms for Detection and Estimation of Cyclostationary Signals* Gene Fong,1993

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