

Coherence and Time Delay Estimation

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Coherence And Time Delay Estimation

D. M. Etter



Coherence And Time Delay Estimation:

Coherence and Time Delay Estimation G. Clifford Carter,1993 The first comprehensive collection of key contributions having a significant impact in this fast moving field this book offers practical applications for nonparametric estimation of auto and cross power spectral density function and their use in extracting fundamental characterizations **Coherence**

and Time Delay Estimation G. Clifford Carter,1993 Signal Processing Handbook C.H. Chen,1988-07-26 Introductory systematic treatment of the many interrelated aspects Twenty three contributions address the fundamentals spectral estimation algorithms image processing land and ocean seismic data telecommunications 3 D object reconstructions Alk paper Annotation copyright Book News Inc Po **The Role of Coherence in Time Delay Estimation A Paper Presented**

at the NATO Advanced Study Institute, LaSpezia, Italy 30 August - 11 September 1976 G. Clifford Carter,NAVAL UNDERWATER SYSTEMS CENTER NEW LONDON CONN NEW LONDON LAB.,1976 This paper investigated methods for passive estimation of the bearing to a slowly moving acoustically radiating source The mathematics for the solution to such a problem is analogous to estimating the time delay or group delay between two time series Since the estimation of time delay is intimately related to the coherence between two time series a summary of the properties of coherence is presented Author

Time Delay Estimation George Clifford Carter,1976 This study investigates methodologies for passive estimation of the bearing to a slowly moving acoustically radiating source The mathematics for the solution to such a problem is analogous to estimating the time delay or group delay between two time series The estimation of time delay is intimately related to the coherence between two time series New results on using coherence to provide information about linear and nonlinear systems are presented The maximum likelihood ML estimate of time delay is derived the explicit dependence of the estimate on coherence is evident in the realization in which the two time series are prefiltered to accentuate frequency bands of high coherence and subsequently crosscorrelated Also included are statistics of the estimates of the magnitude squared coherence MSC including the probability density function the cumulative distribution function and the m th moment of the MSC estimate A complete discussion of the bias and the variance of the MSC estimates is presented The receiver operating characteristics of a linearly thresholded coherence estimation detector are also presented A general FORTRAN 4 computer program using the fast Fourier transform to estimate time delay is given *Brain-Computer Interface Research* Christoph

Guger,Jose Azorin,Milena Korostenskaja,Brendan Allison,2025-03-11 This book showcases recent trends in brain computer interface development It highlights fascinating results in areas such as speech neuroprotheses bionic hands memory enhancement and the development of optical BCIs The contributions describe the three winning projects and other nominated brain computer interface projects selected by the expert international jury of the BCI Award 2023 In the book each project is described in detail by the team of scientists behind it and the editors provide a concluding discussion of the highlights and overall progress in the field **Underwater Acoustic Sensor Networks** Yang Xiao,2010-05-19 A detailed

review of underwater channel characteristics Underwater Acoustic Sensor Networks investigates the fundamental aspects of underwater communication Prominent researchers from around the world consider contemporary challenges in the development of underwater acoustic sensor networks UW ASNs and introduce a cross layer approach for effective

Unattended Ground Sensor Technologies and Applications, 2002 [Deep Brain Stimulation and Epilepsy](#) Hans O. Lüders, 2020-08-26 Deep brain stimulation has been used effectively for many years to treat patients suffering from Parkinson's disease Now neurologists and neurosurgeons are using electric pulse generators to block abnormal activity i.e. epileptic fits Promising research results indicate that electric pulses implanted deep in the brain can affect neurocircuitry and help stop oncoming seizures Supplying a solid background on brain stimulation and its application to epilepsy *Deep Brain Stimulation and Epilepsy* provides a historical overview explores pathogenesis of brain stimulation discusses animal experiments and human studies and explores future prospects of brain stimulation for epileptic control The editor and his team of contributors distill information drawn directly from the literature into one convenient resource *Aspects of Signal Processing with Emphasis on Underwater Acoustics* G. Tacconi, 1977 **Handbook of Position Location** Reza Zekavat, R. Michael Buehrer, 2011-09-09 Radio systems capable of localization have emerging applications in homeland security law enforcement emergency response defense command and control multi robot coordination and vehicle to vehicle and vehicle to pedestrian collision avoidance In fact high resolution localization is vital for many applications including traffic alert emergency services e.g. indoor localization for firefighters and battlefield command and control These systems promise to dramatically reduce society's vulnerabilities to catastrophic events and improve its quality of life While work in this important area is progressing limited resources are available to support graduate students and researchers in this important area Specifically a limited number of books has been published in this area covering selected subjects This comprehensive handbook offers gaps of available localization books presenting in depth coverage from fundamentals of coordinates to advanced application examples **Signal Processing** Jean-Louis Lacoume, Tariq S. Durrani, Raymond Stora, 1987 [Proceedings of the IEEE Signal Processing Workshop on Higher-Order Statistics, July 21-23, 1997, Banff, Alberta, Canada](#), 1997 This text covering the 1997 IEEE Signal Processing Workshop on High Order Statistics is designed for researchers professors practitioners students and other computing professionals *Canadian Journal of Electrical and Computer Engineering*, 1997 **The Journal of the Acoustical Society of America** Acoustical Society of America, 2007 *Position Location Techniques and Applications* David Munoz, Frantz Bouchereau Lara, Cesar Vargas, Rogerio Enriquez-Caldera, 2009-05-15 This book is the definitive guide to the techniques and applications of position location covering both terrestrial and satellite systems It gives all the techniques theoretical models and algorithms that engineers need to improve their current location schemes and to develop future location algorithms and systems Comprehensive coverage is given to system design trade offs complexity issues and the design of efficient positioning algorithms to enable the creation of high performance location positioning

systems Traditional methods are also reexamined in the context of the challenges posed by reconfigurable and multihop networks Applications discussed include wireless networks WiFi ZigBee UMTS and DVB networks cognitive radio sensor networks and multihop networks Features Contains a complete guide to models techniques and applications of position location Includes applications to wireless networks demonstrating the relevance of location positioning to these hot areas in research and development Covers system design trade offs and the design of efficient positioning algorithms enabling the creation of future location positioning systems Provides a theoretical underpinning for understanding current position location algorithms giving researchers a foundation to develop future algorithms David Mu oz is Director and C sar Vargas is a member of the Center for Electronics and Telecommunications Tecnol gico de Monterrey Mexico Frantz Bouchereau is a senior communications software developer at The MathWorks Inc in Natick MA Rogerio Enr quez Caldera is at Instituto Nacional de Atrofisica Optica y Electronica INAOE Puebla Mexico Contains a complete guide to models techniques and applications of position location Includes applications to wireless networks WiFi ZigBee DVB networks cognitive radio sensor networks and reconfigurable and multi hop networks demonstrating the relevance of location positioning to these hot areas in research and development Covers system design trade offs and the design of efficient positioning algorithms enables the creation of future location positioning systems Provides a theoretical underpinning for understanding current position location algorithms giving researchers a foundation to develop future algorithms Signal Processing Workshop on Higher-Order Statistics, June 7-9, 1993, Stanford Sierra Group, South Lake Tahoe, CA, USA. ,1993 **Conference Record** D. M. Etter,1987 **Adaptive & Digital Signal Processing** Claude S. Lindquist,1989 **Intelligent Signal Processing** Simon Haykin,Bart Kosko,2001-01-15 IEEE Press is proud to present the first selected reprint volume devoted to the new field of intelligent signal processing ISP ISP differs fundamentally from the classical approach to statistical signal processing in that the input output behavior of a complex system is modeled by using intelligent or model free techniques rather than relying on the shortcomings of a mathematical model Information is extracted from incoming signal and noise data making few assumptions about the statistical structure of signals and their environment Intelligent Signal Processing explores how ISP tools address the problems of practical neural systems new signal data and blind fuzzy approximators The editors have compiled 20 articles written by prominent researchers covering 15 diverse practical applications of this nascent topic exposing the reader to the signal processing power of learning and adaptive systems This essential reference is intended for researchers professional engineers and scientists working in statistical signal processing and its applications in various fields such as humanistic intelligence stochastic resonance financial markets optimization pattern recognition signal detection speech processing and sensor fusion Intelligent Signal Processing is also invaluable for graduate students and academics with a background in computer science computer engineering or electrical engineering About the Editors Simon Haykin is the founding director of the Communications Research Laboratory at McMaster University Hamilton Ontario Canada where

he serves as university professor His research interests include nonlinear dynamics neural networks and adaptive filters and their applications in radar and communications systems Dr Haykin is the editor for a series of books on Adaptive and Learning Systems for Signal Processing Communications and Control Publisher and is both an IEEE Fellow and Fellow of the Royal Society of Canada Bart Kosko is a past director of the University of Southern California's USC Signal and Image Processing Institute He has authored several books including Neural Networks and Fuzzy Systems Neural Networks for Signal Processing Publisher copyright date and Fuzzy Thinking Publisher copyright date as well as the novel Nanotime Publisher copyright date Dr Kosko is an elected governor of the International Neural Network Society and has chaired many neural and fuzzy system conferences Currently he is associate professor of electrical engineering at USC

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