



# Functional Connectivity Analysis Using the Oddball Auditory Paradigm for Attention Tasks

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**Abstract.** Nowadays, cognitive stimulus processing using Electroencephalographic (EEG) recordings is accomplished by analyzing individually the time-frequency information belonging to each EEG channel. Nevertheless, several studies have characterized cognitive functions as synchronized brain networks depending on the underlying neural interactions. As a result, connectivity analysis provides essential information for improving both the interpretation and interpretability of brain functionality under specific tasks. In this research, we perform functional connectivity analysis by measuring the stability of the phase difference between EEG channels, aiming to include synchronization patterns for studying the brain reaction to cognitive stimulus. Experiments are carried out in subjects responding to an oddball paradigm. Results show statistical differences between target and non-target labels, making the proposed methodology a suitable alternative to support cognitive neurophysiological applications.

**Keywords:** Brain connectivity · Phase synchronization  
Electroencephalography · Oddball paradigm

## 1 Introduction

Studies of routine activities (like attention, perception, or decision-making) have been widely used in cognitive and clinical research of neurological diseases [12, 19]. Because of the provided high temporal resolution and low implementation cost, electroencephalography (EEG) is a very suitable tool to investigate the brain activity patterns, mainly, in applications regarding the oddball paradigm experiments, in which two different testing sensory stimuli (i.e., *rare* and *frequent*) are randomly presented to a subject under examination. The rare stimuli, labeled as a target, are produced with a higher recurrence than the frequent stimuli, or non-target. In the oddball task, an evaluated subject must

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**Edwin Pfanzagl-Cardone**



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**Proceedings of the International Conference on Auditory Techniques, [Pasadena, Calif.], [sponsored by the HEAR Foundation in Conjunction with the San Diego Speech and Hearing Center and Oralingua Staff International Conference on Auditory Techniques, 1974**      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965-70      **Machine Learning Techniques for Assistive Robotics** Miguel Angel Cazorla Quevedo, Sergio Orts-Escolano, Ester Martinez-Martin, 2020-12-10 Assistive robots are categorized as robots that share their area of work and interact with humans Their main goals are to help assist and monitor humans especially people with disabilities To achieve these goals it is necessary that these robots possess a series of characteristics namely the abilities to perceive their environment from their sensors and act consequently to interact with people in a multimodal manner and to navigate and make decisions autonomously This complexity demands computationally expensive algorithms to be performed in real time The advent of high end embedded processors has enabled several such algorithms to be processed concurrently and in real time All these capabilities involve to a greater or less extent the use of machine learning techniques In particular in the last few years new deep learning techniques have enabled a very important qualitative leap in different problems related to perception navigation and human understanding In this Special Issue several works are presented involving the use of machine learning techniques for assistive technologies in particular for assistive robots      **Rough Set Methods and Applications** Lech Polkowski, Shusaku Tsumoto, Tsau Y. Lin, 2012-10-07 Rough set approach to reasoning under uncertainty is based on inducing knowledge representation from data under constraints expressed by discernibility or more generally similarity of objects Knowledge derived by this approach consists of reducts decision or association rules dependencies templates or classifiers This monograph presents the state of the art of this area The reader will find here a deep theoretical discussion of relevant notions and ideas as well as rich inventory of algorithmic and heuristic tools for knowledge discovery by rough set methods An extensive bibliography will help the reader to get an acquaintance with this rapidly growing area of research      **The Computer Music Tutorial, second edition** Curtis Roads, 2023-06-06 Expanded updated and fully revised the definitive introduction to electronic music is ready for new generations of students Essential and state of the art The Computer Music Tutorial second edition is a singular text that introduces computer and electronic music explains its motivations and puts topics into context Curtis Roads's step by step presentation orients musicians engineers scientists and anyone else new to computer and electronic music The new edition continues to be the definitive tutorial on all aspects of computer music including digital audio signal processing musical input devices performance software editing systems algorithmic composition MIDI and psychoacoustics but the second edition also reflects the enormous growth of the field since the book's original publication in 1996 New chapters cover up to date topics like virtual analog pulsar synthesis concatenative synthesis spectrum analysis by atomic decomposition Open Sound Control

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**Digital Audio Watermarking Techniques and Technologies: Applications and Benchmarks** Cvejic, Nedeljko, Seppänen, Tapio, 2007-08-31 Presents digital audio watermarking as a new and alternative method to enforce intellectual property rights and protect digital audio from tampering Provides theoretical frameworks recent research findings and practical applications

Sound to Sense, Sense to Sound Pietro Polotti, 2008 Since the 1950s Sound and Music Computing SMC research has had a profound impact on the development of culture and technology in our post industrial society SMC research approaches the whole sound and music communication chain from a multidisciplinary point of view By combining scientific technological and artistic methodologies it aims at understanding modeling representing and producing sound and music using computational approaches This book by describing the state of the art in SMC research gives hints of future developments whose general purpose will be to bridge the semantic gap the hiatus that currently separates sound from sense and sense from sound

*The Art and Science of Surround and Stereo Recording* Edwin Pfanzagl-Cardone, 2021-01-09 This book presents an extensive and timely survey of more than 30 surround and 20 stereo microphone techniques Further it offers for the first time an explanation of why the RCA Living Stereo series of legacy recordings from the 1950s and 60s is still appreciated by music lovers worldwide despite their use of an apparently incorrect recording technique from the perspective of psychoacoustics Discussing this aspect in detail the book draws on the author s study of concert hall acoustics and psychoacoustics The book also analyzes the fingerprint features of a selected number of surround and more importantly stereo microphone techniques in depth by measuring their signal cross correlation over frequency and also using an artificial human head In addition the book presents a rating of microphone techniques based on the assessment of various acoustic attributes and merges the results of several subjective listening tests including those conducted by other researchers Building on this knowledge it provides fresh insights into important microphone system features from stereo to 3D audio Moreover it describes new microphone techniques such as AB PC ORTF T and BPT and the recently defined BQIrep Binaural Quality Index of reproduced music Lastly the book concludes with a short history of microphone techniques and case studies of live and studio recordings

Sound and Robotics Richard Savery, 2023-12-21 Sound in human robot interaction currently encompasses a wide range of approaches and methodologies not easily classified analyzed or compared among projects This edited book covers the state of the art in sound and robotics aiming to gather

existing approaches in a combined volume Collecting chapters from world leading academic and industry authors Sound and Robotics Speech Non Verbal Audio and Robotic Musicianship explores how robots can communicate through speech non verbal audio and music The first set of chapters explores how robots use verbal communication considering the possibilities of speech for human robot interaction The second section shifts to roles of non verbal communication in HRI including consequential sound sonification and audio cues The third and final section describes current approaches to robotic musicianship and their evaluation This book is primarily aimed at HRI researchers ranging from those who have never used sound to those very experienced with sound Alongside robotic researchers this book will present avenues for a diverse range of musicians composers and sound designers to become introduced to the world of HRI and learn of potential creative directions in robotics

**Immersive Sound** Agnieszka Roginska, Paul Geluso, 2017-10-17 Immersive Sound The Art and Science of Binaural and Multi Channel Audio provides a comprehensive guide to multi channel sound With contributions from leading recording engineers researchers and industry experts Immersive Sound includes an in depth description of the physics and psychoacoustics of spatial audio as well as practical applications Chapters include the history of 3D sound binaural reproduction over headphones and loudspeakers stereo surround sound height channels object based audio soundfield ambisonics wavefield synthesis and multi channel mixing techniques Knowledge of the development theory and practice of spatial and multi channel sound is essential to those advancing the research and applications in the rapidly evolving fields of 3D sound recording augmented and virtual reality gaming film sound music production and post production

**The Oxford Handbook of Cognitive Engineering** John D. Lee, Alex Kirlik, M. J. Dainoff, 2013-03-07 This handbook is the first to provide comprehensive coverage of original state of the science research analysis and design of integrated human technology systems

Interaction Techniques and Technologies in Human-Computer Interaction Constantine Stephanidis, Gavriel Salvendy, 2024-08-30 This book offers a thorough exploration of interaction design by examining various technologies interaction techniques styles and devices This book Assists readers in acquiring a deep understanding of diverse ways humans interact with computer technologies and in selecting the most suitable approach for various interactive scenarios Introduces cutting edge interaction techniques including multimodal and gesture based interaction wearables haptic speech and sound based interaction embodied interaction and more Advances beyond traditional interfaces to large and multiscreen interactions proxemics brain computer interfaces affective computing and Extended Reality This book will appeal to individuals interested in Human Computer Interaction research and applications

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Game Sound Technology and Player Interaction: Concepts and Developments Grimshaw, Mark, 2010-09-30 Game Sound Technology and Player Interaction Concepts and Developments researches both how game sound affects a player psychologically emotionally and physiologically and how this relationship itself impacts the design of computer game sound and the development of technology This compilation also applies beyond the realm of video

games to other types of immersive sound such as soundscape design gambling machines emotive and fantastical sound to name a few The application for this research is wide ranging interdisciplinary and of primary importance for academics and practitioners searching for the right sounds      *Sound Actions* Alexander Refsum Jensenius, 2022-12-13 A techno cognitive look at how new technologies are shaping the future of musicking Musicking encapsulates both the making of and perception of music so it includes both active and passive forms of musical engagement But at its core it is a relationship between actions and sounds between human bodies and musical instruments Viewing musicking through this lens and drawing on music cognition and music technology Sound Actions proposes a model for understanding differences between traditional acoustic sound makers and new electro acoustic music makers What is a musical instrument How do new technologies change how we perform and perceive music What happens when composers build instruments performers write code perceivers become producers and instruments play themselves The answers to these pivotal questions entail a meeting point between interactive music technology and embodied music cognition what author Alexander Refsum Jensenius calls embodied music technology Moving between objective description and subjective narrative of his own musical experiences Jensenius explores why music makes people move how the human body can be used in musical interaction and how new technologies allow for active musical experiences The development of new music technologies he demonstrates has fundamentally changed how music is performed and perceived      *Intelligent Systems and Computer Technology* D. Jude Hemanth, S. Malathi, 2020-12-15 Recent developments in soft computation techniques have paved the way for handling huge volumes of data thereby bringing about significant changes and technological advancements This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing Next Generation Soft Computing is a platform for scientists researchers practitioners and academics to present and discuss their most recent innovations trends and concerns as well as the practical challenges encountered in the field The second section Evolutionary Networking and Communications focuses on various aspects of 5G communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas It brings together the latest technologies from all over the world and also provides an excellent international forum for the sharing of knowledge and results from theory methodology and applications in networking and communications The book will be of interest to all those working in the fields of intelligent systems and computer technology      *The Art and Science of 3D Audio Recording* Edwin Pfanzagl-Cardone, 2023-03-11 This professional book offers a unique comprehensive and timely guide on 3D audio recording Intended for sound engineers and professionals and summarizing more than twenty year research on this topic it includes extensive information and details on various microphone techniques and loudspeaker layouts such as Auro 3D Dolby Atmos™ DTS X MMAD SONY 360 Reality Audio and Ambisonics It presents a rich set of results obtained from both objective measurements and subjective listening tests and a number of case studies for 3D recording ranging from solo

instrument techniques to full symphony orchestra and microphone systems for virtual reality applications Further it includes a chapter on spatial hearing discussing issues of 3D audio sound reproduction All in all this book offers extensive practical information for sound engineers and professionals     Readings in Human-Computer Interaction Ronald M.

Baecker,2014-06-28 The effectiveness of the user computer interface has become increasingly important as computer systems have become useful tools for persons not trained in computer science In fact the interface is often the most important factor in the success or failure of any computer system Dealing with the numerous subtly interrelated issues and technical behavioral and aesthetic considerations consumes a large and increasing share of development time and a corresponding percentage of the total code for any given application A revision of one of the most successful books on human computer interaction this compilation gives students researchers and practitioners an overview of the significant concepts and results in the field and a comprehensive guide to the research literature Like the first edition this book combines reprints of key research papers and case studies with synthesizing survey material and analysis by the editors It is significantly reorganized updated and enhanced over 90% of the papers are new An invaluable resource for systems designers cognitive scientists computer scientists managers and anyone concerned with the effectiveness of user computer interfaces it is also designed for use as a primary or supplementary text for graduate and advanced undergraduate courses in human computer interaction and interface design Human computer interaction historical intellectual and social Developing interactive systems including design evaluation methods and development tools The interaction experience through a variety of sensory modalities including vision touch gesture audition speech and language Theories of information processing and issues of human computer fit and adaptation     **Signal Recovery Techniques for Image and Video Compression and**

**Transmission** Aggelos Konstantinos Katsaggelos,Nick Galatsanos,1998-10-31 Establishes a bridge between the fields of signal recovery and image and video compression illustrating how techniques such as Bayesian estimation and the theory of projections onto convex sets can be brought to bear on problems in image and video compression and transmission Addresses recovery of information which is lost due to the quantization process in compressing still images and video using available compression standards demonstrating that established recovery techniques can be modified and used in these situations and considers problems of recovery of information lost during the transmission process Annotation copyrighted by Book News Inc Portland OR     *Sound and Music Computing* Tapio Lokki,Stefania Serafin,Meinard Müller,Vesa

Välimäki,2018-06-26 This book is a printed edition of the Special Issue Sound and Music Computing that was published in Applied Sciences

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