

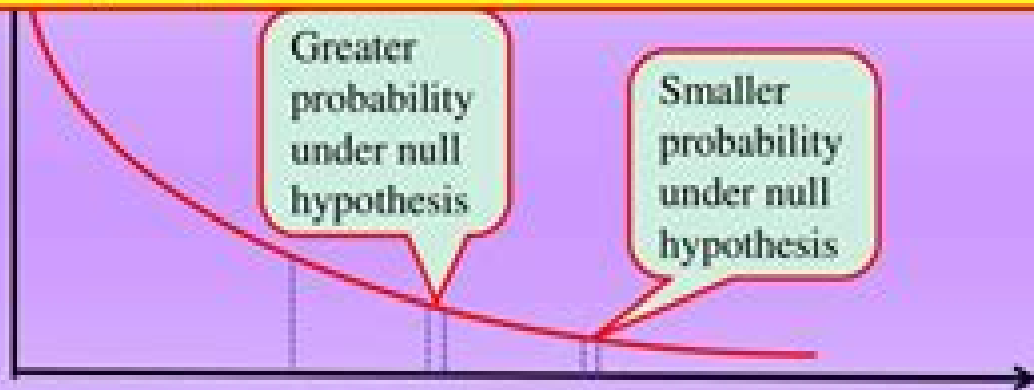


# Frequency domain Causal Analysis Methods based on Two Statistics

RPDC causality  $j \rightarrow i$   $\hat{\lambda}_{ij}(\omega) = N \hat{\mathbf{X}}_j(\omega)^* \hat{\mathbf{V}}_j(\omega)^{-1} \hat{\mathbf{X}}_j(\omega)$

Under the null hypothesis of  $|A_{ij}(\omega)|^2 = 0$ ,  $N \rightarrow \infty$ ,  $\hat{\lambda}_{ij}(\omega) \rightarrow \chi^2_{k_i}$  distribution

RPDC can be directly used to measure the strength of causality from  $x_j$  to  $x_i$  at  $\omega$



$\chi^2_{\alpha_0}$   $\hat{\lambda}_{ij}(\omega_2) < \hat{\lambda}_{ij}(\omega_1)$

$S_{\text{max}}(x_j) = \frac{1}{2\pi} \int_0^{2\pi} \hat{\lambda}_{ij}(\omega) d\omega$

Weaker causal      Stronger causal

measure the strength of the causality between each pair of time series

# Frequency Domain Causality Analysis Method For

**Jesus M. Cortés, Daniele  
Marinazzo, Miguel Angel Muñoz**

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### **Mapping Psychopathology with fMRI and Effective Connectivity Analysis** Baojuan Li,Adeel Razi,Karl J.

Friston,2017-06-22 There is a growing appreciation that many psychiatric and neurological conditions can be understood as functional disconnection syndromes as reflected in aberrant functional integration and synaptic connectivity This Research Topic considers recent advances in understanding psychopathology in terms of aberrant effective connectivity as measured noninvasively using functional magnetic resonance imaging fMRI Recently there has been increasing interest in inferring directed connectivity effective connectivity from fMRI data Effective connectivity refers to the influence that one neural system exerts over another and quantifies the directed coupling among brain regions and how they change with pathophysiology Compared to functional connectivity effective connectivity allows one to understand how brain regions interact with each other in terms of context sensitive changes and directed coupling and therefore may provide mechanistic insights into the neural basis of psychopathology Established models of effective connectivity include psychophysiological interaction PPI structural equation modeling SEM and dynamic causal modelling DCM DCM is unique because it explicitly models the interaction among brain regions in terms of latent neuronal activity Moreover recent advances in DCM such as stochastic and spectral DCM make it possible to characterize the interaction between different brain regions both at rest and during a cognitive task

### **Studies at the Crossroads of Management & Economics** Samet Evci,Anshuman

Sharma,2020-03-15 Business and economics which are among the disciplines of social science examine and discuss many issues affecting human life from various perspectives In this context prominent subjects in business and economics are examined by authors with different disciplines and approaches in this book The book consists of three chapters economic theory and policy financial accounting and auditing strategic management and marketing The subjects in each chapter are examined in an understandable way in accordance with the business managers investors and researchers

Sport and Exercise Psychophysiology Marcelo Bigliassi, Pattern Recognition Gernot A. Fink,Simone Frintrop,Xiaoyi

Jiang,2019-10-24 This book constitutes the proceedings of the 41st DAGM German Conference on Pattern Recognition DAGM GCPR 2019 held in Dortmund Germany in September 2019 The 43 revised full papers presented were carefully reviewed and selected from 91 submissions The German Conference on Pattern Recognition is the annual symposium of the German Association for Pattern Recognition DAGM It is the national venue for recent advances in image processing pattern recognition and computer vision and it follows the long tradition of the DAGM conference series

**European Journal of Tourism Research** ,2018-07-30 The European Journal of Tourism Research is an academic journal in the field of tourism published by Varna University of Management Bulgaria Its aim is to provide a platform for discussion of theoretical and empirical problems in tourism Publications from all fields connected with tourism such as tourism management tourism marketing sociology psychology tourism geography political sciences mathematics tourism statistics tourism anthropology

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**Macroeconomic Forecasting in the Era of Big Data** Peter Fuleky,2019-11-28 This book surveys big data tools used in macroeconomic forecasting and addresses related econometric issues including how to capture dynamic relationships among variables how to select parsimonious models how to deal with model uncertainty instability non stationarity and mixed frequency data and how to evaluate forecasts among others Each chapter is self contained with references and provides solid background information while also reviewing the latest advances in the field Accordingly the book offers a valuable resource for researchers professional forecasters and students of quantitative economics

**Advanced Data Mining and Applications** Masatoshi Yoshikawa,Xiaofeng Meng,Yang Cao,Chuan Xiao,Weitong Chen,Yanda Wang,2025-10-16 This five volume set constitutes the refereed proceedings of the 21st International Conference on Advanced Data Mining and Applications ADMA 2025 held in Kyoto Japan during October 22 24 2025

*Understanding the Evolution of Regional Economic Development and Tourism Efficiency in China* Tsung Pao Wu,2024-07-16 This insightful volume delves into the intricate relationship between economic growth and tourism effectiveness in China s diverse regions With a focus on practical insights and accessible language this book is essential reading for policymakers economists and tourism professionals seeking to understand the dynamics of regional development By emphasizing China s unique experiences the text offers valuable lessons applicable to regions worldwide Engaging and concise it navigates complex concepts with clarity making it accessible to a global audience Highlighting key trends and emerging theories this work serves as a vital resource for anyone interested in the intersection of economic development and tourism efficiency

*Techniques in Psychophysiology* Irene Martin,Peter Henry Venables,1980

Information-based methods for neuroimaging: analyzing structure, function and dynamics Jesus M. Cortés,Daniele Marinazzo,Miguel Angel Muñoz,2015-05-07 The aim of this Research Topic is to discuss the state of the art on the use of Information based methods

in the analysis of neuroimaging data Information based methods typically built as extensions of the Shannon Entropy are at the basis of model free approaches which being based on probability distributions rather than on specific expectations can account for all possible non linearities present in the data in a model independent fashion Mutual Information like methods can also be applied on interacting dynamical variables described by time series thus addressing the uncertainty reduction or information in one variable by conditioning on another set of variables In the last years different Information based methods have been shown to be flexible and powerful tools to analyze neuroimaging data with a wide range of different methodologies including formulations based on bivariate vs multivariate representations frequency vs time domains etc Apart from methodological issues the information bit as a common unit represents a convenient way to open the road for comparison and integration between different measurements of neuroimaging data in three complementary contexts Structural Connectivity Dynamical Functional and Effective Connectivity and Modelling of brain activity Applications are ubiquitous starting from resting state in healthy subjects to modulations of consciousness and other aspects of pathophysiology Mutual Information based methods have provided new insights about common principles in brain organization showing the existence of an active default network when the brain is at rest It is not clear however how this default network is generated the different modules are intra interacting or disappearing in the presence of stimulation Some of these open questions at the functional level might find their mechanisms on their structural correlates A key question is the link between structure and function and the use of structural priors for the understanding of the functional connectivity measures As effective connectivity is concerned recently a common framework has been proposed for Transfer Entropy and Granger Causality a well established methodology originally based on autoregressive models This framework can open the way to new theories and applications This Research Topic brings together contributions from researchers from different backgrounds which are either developing new approaches or applying existing methodologies to new data and we hope it will set the basis for discussing the development and validation of new Information based methodologies for the understanding of brain structure function and dynamics

*Experimental and Quasi-experimental Designs for Generalized Causal Inference* William R. Shadish, Thomas D. Cook, Donald Thomas Campbell, 2002 Sections include experiments and generalised causal inference statistical conclusion validity and internal validity construct validity and external validity quasi experimental designs that either lack a control group or lack pretest observations on the outcome quasi experimental designs that use both control groups and pretests quasi experiments interrupted time series designs regression discontinuity designs randomised experiments rationale designs and conditions conducive to doing them practical problems 1 ethics participation recruitment and random assignment practical problems 2 treatment implementation and attrition generalised causal inference a grounded theory generalised causal inference methods for single studies generalised causal inference methods for multiple studies a critical assessment of our assumptions

**The Causal Analysis of Multiple Time Series** Michael L. Deaton, 1980 *ICASSP 89*

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*Instrumentation and Automation in the Paper, Rubber, Plastics, and Polymerization Industries, 1986* A. Kaya,T. J. Williams,1987 Presents a state of the art review of instrumentation and automation practices in the paper rubber plastics and polymerization industries including original research and practical projects Among subject areas covered are rubber industry process control and related topics modeling and control of paper industry processes applications of adaptive and predictive control in the pulp and paper industry batch reactor control technology adaptive process control concepts for plastics processing units modeling and control of polymerization processes paper industry process control measurement and modeling problems in polymer processing of non sheet processes control of extrusion and blow molding mill wide control in the paper industry user s needs and expected developments in sensors for the control of production of sheet products instrumentation for polymer processing and modeling of paper industry processes *Revue roumaine des sciences techniques* ,1970 *Fuzzy Control* Shehu S. Farinwata,Dimitar P. Filev,Reza Langari,2000-06-08 Fuzzy Control Synthesis and Analysis Edited by Shehu S Farinwata Ford Motor Company Research Laboratory Dearborn Michigan USA Dimitar Filev Ford Motor Company AMTDC Redford Michigan USA Reza Langari Texas A M University College Station Texas USA Fuzzy techniques are used to cope with imprecision in the basic elements of a process under control Written by an international team of researchers this edited volume covers the modeling analysis and synthesis of fuzzy control systems Features include Comprehensive coverage of fuzzy dynamical systems robustness stability and sensitivity giving the reader a good grasp of the fundamentals of fuzzy control Focus on the analytical structures of new fuzzy modeling approaches based on the Takagi Sugeno Kang TSK or Takagi Sugeno TS model Applications of fuzzy control to aircraft systems rocket engines and automotive engines Problems and examples illustrating how fuzzy approaches may be applied to the modeling analysis and synthesis of closed loop systems Design and control engineers will value the advanced control techniques and new design and analysis tools presented Postgraduates studying fuzzy control will find this book a useful reference on synthesis systems analysis and advanced nonlinear control methods

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