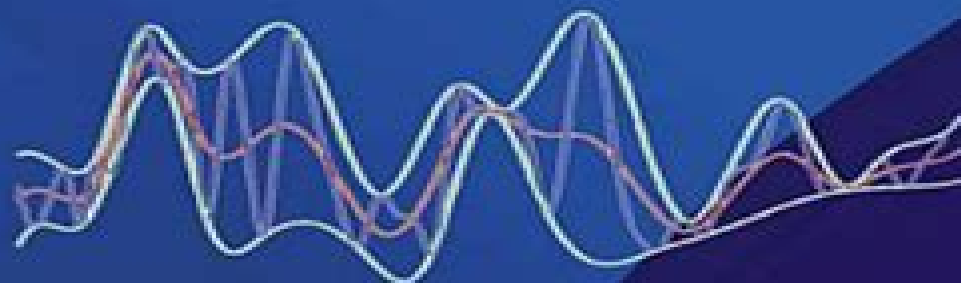


Interdisciplinary Mathematical Sciences – Vol. 5



# Hilbert–Huang Transform and Its Applications

Editors

Norden E Huang  
Samuel S P Shen

# Hilberthuang Transform And Its Applications

**Qilian Liang,Wei Wang,Xin Liu,Zhenyu  
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## **Hilberthuang Transform And Its Applications:**

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original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the refereed papers are structured according to the five major conference themes computational methods algorithms and applications high performance technical computing and networks advanced and emerging applications geometric modelling graphics and visualization information systems and information technologies

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approach that makes this collection a valuable multidisciplinary reference on how mathematics can be applied to various real world processes and phenomena      *Structural Health Monitoring Using Emerging Signal Processing Approaches with Artificial Intelligence Algorithms* Chunwei Zhang, Asma A. Mousavi, 2024-11-06 Structural health monitoring is a powerful tool across civil mechanical automotive and aerospace engineering allowing the assessment and measurement of physical parameters in real time Processing changes in the vibration signals of a dynamic system can detect locate and quantify any damage existing in the system This book presents a comprehensive state of the art review of the applications in time frequency and time frequency domains of signal processing techniques for damage perception localization and quantification in various structural systems Experimental investigations are illustrated including the development of a set of damage indices based on the signal features extracted through various signal processing techniques to evaluate sensitivity in damage identification Chapters summarize the application of the Hilbert Huang transform based on three decomposition methods such as empirical mode decomposition ensemble empirical mode decomposition and complete ensemble empirical mode decomposition with adaptive noise Also the chapters assess the performance and sensitivity of different approaches including multiple signal classification and empirical wavelet transform techniques in damage detection and quantification Artificial neural networks for automated damage identification are introduced This book suits students engineers and researchers who are investigating structural health monitoring signal processing and damage identification of structures      **ANALYSIS OF ADAPTIVE RESONANCE THEORY FOR DIAGNOSTIC UNDERSTANDING OF EPILEPSY** Dr. Alpika Tripathi ,Dr. Kamlesh Kumar Singh ,Dr. Geetika Srivastava ,Dr. P.K. Maurya ,2022-07-12      *Communications, Signal Processing, and Systems* Qilian Liang, Wei Wang, Xin Liu, Zhenyu Na, Min Jia, Baoju Zhang, 2020-04-04 This book brings together papers from the 2019 International Conference on Communications Signal Processing and Systems which was held in Urumqi China on July 20 22 2019 Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications to signal processing and systems It is chiefly intended for undergraduate and graduate students in electrical engineering computer science and mathematics researchers and engineers from academia and industry as well as government employees      **Oil and Gas Exploration** Said Gaci, Olga Hachay, 2017-03-13 *Oil and Gas Exploration Methods and Application* presents a summary of new results related to oil and gas prospecting that are useful for theoreticians and practical professionals The study of oil and gas complexes and intrusions occurring in sedimentary basins is crucial for identifying the location of oil and gas fields and for making accurate predictions on oil findings Volume highlights include Advanced geophysical techniques for achieving hydrocarbon exploration efficiency from beneath the Earth Discussion of theoretical and practical approaches in solving problems related to exploring and mining new oil and gas deposits New geological concepts for predicting potential hydrocarbon targets Novel methods of control of the outworking of these deposits using different geophysical methods significant for optimization of mining

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*Vibration Engineering and Technology of Machinery* José Manoel Balthazar, 2021-03-03 This volume gathers the latest advances innovations and applications in the field of vibration and technology of machinery as presented by leading international researchers and engineers at the XV International Conference on Vibration Engineering and Technology of Machinery VETOMAC held in Curitiba Brazil on November 10 15 2019 Topics include concepts and methods in dynamics dynamics of

mechanical and structural systems dynamics and control condition monitoring machinery and structural dynamics rotor dynamics experimental techniques finite element model updating industrial case studies vibration control and energy harvesting and MEMS The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations **Frontier and Future Development of Information Technology in Medicine and Education** Shaozi Li, Qun Jin, Xiaohong Jiang, James J. (Jong Hyuk) Park, 2013-12-05 IT changes everyday's life especially in education and medicine The goal of ITME 2013 is to further explore the theoretical and practical issues of IT in education and medicine It also aims to foster new ideas and collaboration between researchers and practitioners Methods and Applications in Petroleum and Mineral Exploration and Engineering Geology Said Gaci, Olga Hachay, Orietta Nicolis, 2021-06-19 Methods and Applications in Petroleum and Mineral Exploration and Engineering Geology is an interdisciplinary book bridging the fields of earth sciences and engineering It covers topics on natural resources exploration as well as the application of geological exploration methods and techniques to engineering problems Each topic is presented through theoretical approaches that are illustrated by case studies from around the globe Methods and Applications in Petroleum and Mineral Exploration and Engineering Geology is a key resource for both academics and professionals offering both practical and applied knowledge in resources exploration and engineering geology Features new exploration technologies including seismic satellite images basin studies geochemical modeling and analysis Presents cases studies from different countries such as the Hoggar area Algeria Urals and Siberia Russia North of Chile II and III regions and North of Italy Trentino Alto adige Includes applications of the novel methods discussed *Signal and Image Processing for Remote Sensing* C.H. Chen, 2006-10-09 Most data from satellites are in image form thus most books in the remote sensing field deal exclusively with image processing However signal processing can contribute significantly in extracting information from the remotely sensed waveforms or time series data Pioneering the combination of the two processes Signal and Image Processing for Remote Sensing provides a balance between the role of signal processing and image processing in remote sensing Featuring contributions from worldwide experts this book emphasizes mathematical approaches Divided into two parts Part I examines signal processing for remote sensing and Part II explores image processing Not limited to the problems with data from satellite sensors the book considers other sensors which acquire data remotely including signals and images from infrasound seismic microwave and satellite sensors It covers a broader scope of issues in remote sensing information processing than other books in this area With rapid technological advances the mathematical techniques provided will far outlast the sensor software and hardware technologies Focusing on methodologies of signal processing and image processing in remote sensing this book discusses unique techniques for dealing with remote sensing problems



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