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The ESports Market and ESports Sponsoring

In the last decades, the market for digital games has grown to nearly $100 billion. During this growth, a special gaming segment and community formed surrounding the direct competitive aspect of games: eSports. The core of eSports is similar to traditional types of sport. Players train to become better, clubs are established, tournaments are organized and fans enjoy watching their game being played on the highest level of performance. With viewers and prize money in the millions, eSports have grown into an economically significant media sport ecosystem and a marketing landscape that started to attract non-endemic companies as advertisers and sponsors. This book analyzes the components of the eSports ecosystem as well as their interactions with each other. Furthermore, the attitude of eSports fans towards engagements of non-endemic companies is researched by using a real case study including the Electronic Sports League and German home loan bank Wustenrot.

Hilbert–Huang Transform and Its Applications

This book is written for scientists and engineers who use HHT (Hilbert–Huang Transform) to analyze data from nonlinear and non-stationary processes. It can be treated as a HHT user manual and a source of reference for HHT applications. The book contains the basic principle and method of HHT and various application examples, ranging from the correction of satellite orbit drifting to detection of failure of highway bridges. The thirteen chapters of the first edition are based on the presentations made at a mini-symposium at the Society for Industrial and Applied Mathematics in 2003. Some outstanding mathematical research problems regarding HHT development are discussed in the first three chapters. The three new chapters of the second edition reflect the latest HHT development, including ensemble empirical mode decomposition (EEMD) and modified EMD. The book also provides a platform for researchers to develop the HHT method further and to identify more applications. Contents:Introduction to the Hilbert–Huang Transform and Its Related Mathematical ProblemsEnsemble Empirical Mode Decomposition and Its Multi-Dimensional ExtensionsMultivariate Extensions of Empirical Mode DecompositionB-Spline Based Empirical Mode DecompositionEMD Equivalent Filter Banks, From Interpretation to ApplicationsHHT Sifting and FilteringStatistical Significance Test of Intrinsic Mode FunctionsThe Time-Dependent Intrinsic CorrelationThe Application of Hilbert–Huang Transforms to Meteorological DatasetsEmpirical Mode Decomposition and Climate VariabilityEMD Correction of Orbital Drift Artifacts in Satellite Data StreamHHT Analysis of the Nonlinear and Non-Stationary Annual Cycle of Daily Surface Air Temperature DataHilbert Spectra of Nonlinear Ocean WavesEMD and Instantaneous Phase Detection of Structural DamageHTT-Based Bridge Structural Health-Monitoring MethodApplications of HHT in Image Analysis Readership: Applied mathematicians, climate scientists, highway engineers, medical scientists, geologists, civil engineers, mechanical engineers, electrical engineers, economics and graduate students in science or engineering. Keywords:Hilbertâ\u0080\u0093Huang Transform;Empirical Mode Decomposition;Intrinsic Mode Function;Hilbert Spectral Analysis;Time-Frequency AnalysisKey Features:A tool book for analyzing nonlinear and non-stationary dataA source book for HHT development and applicationsThe most complete reference for HHT method and applications

The Hilbert-Huang Transform in Engineering

Data used to develop and confirm models suffer from several shortcomings: the total data is too limited, the data are non-stationary, and the data represent nonlinear processes. The Hilbert-Huang transform (HHT) is a relatively new method that has grown into a robust tool for data analysis and is ready for a wide variety of

applications. Thi

Adaptive Blind Signal and Image Processing

Im Mittelpunkt dieses modernen und spezialisierten Bandes stehen adaptive Strukturen und unüberwachte Lernalgorithmen, besonders im Hinblick auf effektive Computersimulationsprogramme. Anschauliche Illustrationen und viele Beispiele sowie eine interaktive CD-ROM ergänzen den Text.

Teleconnections Linking Worldwide Climate Anomalies

Teleconnections is a central concept in the scientific search for an improved understanding of potential linkages between weather and climate anomalies that occur over relatively large distances. The editors of this 1991 volume brought together contributions from experts in the field, which together provide a comprehensive review of this important subject. This book will be of importance to all professional scientists and researchers in climatology and meteorology, particularly those concerned with air-sea interactions and their environmental impacts and the physical basis for and societal responses to forecasting. Graduate students in environmental science, meteorology and climate-related impact assessments will also find the book useful.

Learning to Predict Climate Variations Associated with El Nino and the Southern Oscillation

The TOGA (Tropical Ocean and Global Atmosphere) Program was designed to study short-term climate variations. A 10-year international program, TOGA made El Nino a household word. This book chronicles the cooperative efforts of oceanographers and meteorologists, several U.S. government agencies, many other nations, and international scientific organizations to study El Nino and the Southern Oscillation (ENSO). It describes the progression from being unable to detect the development of large climate variations to being able to make and use rudimentary climate predictions, especially for some tropical countries. It examines the development of the TOGA Program, evaluates its accomplishments, describes U.S. participation in the program, and makes general recommendations for developing better understanding and predictions of climate variations on seasonal to interannual time scales.

Identification Methods for Structural Health Monitoring

The papers in this volume provide an introduction to well known and established system identification methods for structural health monitoring and to more advanced, state-of-the-art tools, able to tackle the challenges associated with actual implementation. Starting with an overview on fundamental methods, introductory concepts are provided on the general framework of time and frequency domain, parametric and non-parametric methods, input-output or output only techniques. Cutting edge tools are introduced including, nonlinear system identification methods; Bayesian tools; and advanced modal identification techniques (such as the Kalman and particle filters, the fast Bayesian FFT method). Advanced computational tools for uncertainty quantification are discussed to provide a link between monitoring and structural integrity assessment. In addition, full scale applications and field deployments that illustrate the workings and effectiveness of the introduced monitoring schemes are demonstrated.

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