

Achilleas Zapranis and
Apostolos-Paul Refenes

Principles of Neural Model Identification, Selection and Adequacy

**With Applications to Financial
Econometrics**



Springer

Principles Of Neural Model Identification Selection And Adequacy With Applications In Financial Econometrics

Shu-Heng Chen



Principles Of Neural Model Identification Selection And Adequacy With Applications In Financial Econometrics:

Principles of Neural Model Identification, Selection and Adequacy Achilleas Zapranis, Apostolos-Paul N.

Refenes, 1999-05-28 Neural networks have had considerable success in a variety of disciplines including engineering control and financial modelling. However, a major weakness is the lack of established procedures for testing mis-specified models and the statistical significance of the various parameters which have been estimated. This is particularly important in the majority of financial applications where the data-generating processes are dominantly stochastic and only partially deterministic. Based on the latest most significant developments in estimation theory, model selection and the theory of mis-specified models, this volume develops neural networks into an advanced financial econometrics tool for non-parametric modelling. It provides the theoretical framework required and displays the efficient use of neural networks for modelling complex financial phenomena. Unlike most other books in this area, this one treats neural networks as statistical devices for non-linear non-parametric regression analysis.

Principles of Neural Model Identification, Selection and Adequacy Achilleas

Zapranis, Apostolos-Paul N. Refenes, 2012-12-06 Neural networks have had considerable success in a variety of disciplines including engineering control and financial modelling. However, a major weakness is the lack of established procedures for testing mis-specified models and the statistical significance of the various parameters which have been estimated. This is particularly important in the majority of financial applications where the data-generating processes are dominantly stochastic and only partially deterministic. Based on the latest most significant developments in estimation theory, model selection and the theory of mis-specified models, this volume develops neural networks into an advanced financial econometrics tool for non-parametric modelling. It provides the theoretical framework required and displays the efficient use of neural networks for modelling complex financial phenomena. Unlike most other books in this area, this one treats neural networks as statistical devices for non-linear non-parametric regression analysis.

Computational Intelligence in Economics and Finance Paul P.

Wang, 2013-03-09 Due to the ability to handle specific characteristics of economics and finance forecasting problems like e.g. non-linear relationships, behavioral changes or knowledge-based domain segmentation, we have recently witnessed a phenomenal growth of the application of computational intelligence methodologies in this field. In this volume, Chen and Wang collected not just works on traditional computational intelligence approaches like fuzzy logic, neural networks and genetic algorithms, but also examples for more recent technologies like e.g. rough sets, support vector machines, wavelets or ant algorithms. After an introductory chapter with a structural description of all the methodologies, the subsequent parts describe novel applications of these to typical economics and finance problems like business forecasting, currency crisis, discrimination, foreign exchange markets or stock markets behavior.

Agent-Based Computational Economics

Shu-Heng Chen, 2017-09-19 This book aims to answer two questions that are fundamental to the study of agent-based economic models: what is agent-based computational economics and why do we need agent-based economic modelling of

economy This book provides a review of the development of agent based computational economics ACE from a perspective on how artificial economic agents are designed under the influences of complex sciences experimental economics artificial intelligence evolutionary biology psychology anthropology and neuroscience This book begins with a historical review of ACE by tracing its origins From a modelling viewpoint ACE brings truly decentralized procedures into market analysis from a single market to the whole economy This book also reviews how experimental economics and artificial intelligence have shaped the development of ACE For the former the book discusses how ACE models can be used to analyse the economic consequences of cognitive capacity personality and cultural inheritance For the latter the book covers the various tools used to construct artificial adaptive agents including reinforcement learning fuzzy decision rules neural networks and evolutionary computation This book will be of interest to graduate students researching computational economics experimental economics behavioural economics and research methodology *Advances in Artificial Intelligence - IBERAMIA 2002* Francisco J.

Garijo, José C. Riquelme, Miguel Toro Bonilla, 2003-06-30 The 8th Ibero American Conference on Artificial Intelligence IBERAMIA 2002 took place in Spain for the second time in 14 years the first conference was organized in Barcelona in January 1988 The city of Seville hosted this 8th conference giving the participants the opportunity of enjoying the richness of its historical and cultural atmosphere Looking back over these 14 years key aspects of the conference such as its structure organization the quantity and quality of submissions the publication policy and the number of attendants have significantly changed Some data taken from IBERAMIA 88 and IBERAMIA 2002 may help to illustrate these changes IBERAMIA 88 was planned as an initiative of three Ibero American AI associations the Spanish Association for AI AEPIA the Mexican Association for AI SMIA and the Portuguese Association for AI APIA The conference was organized by the AEPIA staff including the AEPIA president Jos Cuenca the secretary Felisa Verdejo and other members of the AEPIA board The proceedings of IBERAMIA 88 contain 22 full papers grouped into six areas knowledge representation and reasoning learning AI tools expert systems language and vision Papers were written in the native languages of the participants Spanish Portuguese and Catalan Twenty extended abstracts describing ongoing projects were also included in the proceedings

Computational Intelligence: A Compendium John Fulcher, L. C. Jain, 2008-06-16 Computational Intelligence A Compendium presents a well structured overview about this rapidly growing field with contributions of leading experts in Computational Intelligence The main focus of the compendium is on applied methods tried and proven effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field The 25 chapters are grouped into the following themes I Overview and Background II Data Preprocessing and Systems Integration III Artificial Intelligence IV Logic and Reasoning V Ontology VI Agents VII Fuzzy Systems VIII Artificial Neural Networks IX Evolutionary Approaches X DNA and Immune based Computing **Computational Methods in Neural Modeling** José Mira, 2003-05-22 The two volume set LNCS 2686 and LNCS 2687 constitute the refereed proceedings of the 7th International

Work Conference on Artificial and Natural Neural Networks IWANN 2003 held in Ma Menorca Spain in June 2003 The 197 revised papers presented were carefully reviewed and selected for inclusion in the book and address the following topics mathematical and computational methods in neural modelling neurophysiological data analysis and modelling structural and functional models of neurons learning and other plasticity phenomena complex systems dynamics cognitive processes and artificial intelligence methodologies for net design bio inspired systems and engineering and applications in a broad variety of fields

Environmental Economics and Investment Assessment K. Aravossis, 2006 The current emphasis on sustainable development is a consequence of the general awareness of the need to solve numerous environmental problems resulting from our modern society This book addresses the topic of Investment Assessment and Environmental Economics in an integrated way in accordance with the principles of sustainability considering social and environmental impacts of new investments Bringing together papers from the First International Conference on Environmental Economics and Investment Assessment papers encompass topic areas such as Economy and the Environment Investment Planning and Assessment Environmental Economics and Entrepreneurship Environmental Investment Planning Sustainable Environmental Management Environmental Impact Assessments and Investments Environmental Performance Indicators Environmental Management Systems Legislation and Law Enforcement Cost Benefits Analysis Natural Resources Management Social Issues and Environmental Policies Risk Management in Environmental Investment Location Optimization

Weather Derivatives Antonis Alexandridis K., Achilleas D. Zapranis, 2012-11-30 Weather derivatives are financial instruments that can be used by organizations or individuals as part of a risk management strategy to minimize risk associated with adverse or unexpected weather conditions Just as traditional contingent claims a weather derivative has an underlying measure such as rainfall wind snow or temperature Nearly 1 trillion of the U S economy is directly exposed to weather related risk More precisely almost 30% of the U S economy and 70% of U S companies are affected by weather The purpose of this monograph is to conduct an in depth analysis of financial products that are traded in the weather market Presenting a pricing and modeling approach for weather derivatives written on various underlying weather variables will help students researchers and industry professionals accurately price weather derivatives and will provide strategies for effectively hedging against weather related risk This book will link the mathematical aspects of the modeling procedure of weather variables to the financial markets and the pricing of weather derivatives Very little has been published in the area of weather risk and this volume will appeal to graduate level students and researchers studying financial mathematics risk management or energy finance in addition to investors and professionals within the financial services industry

Wavelet Neural Networks Antonios K. Alexandridis, Achilleas D. Zapranis, 2014-04-24 A step by step introduction to modeling training and forecasting using wavelet networks Wavelet Neural Networks With Applications in Financial Engineering Chaos and Classification presents the statistical model identification framework that is needed to successfully apply wavelet networks as well as extensive

comparisons of alternate methods Providing a concise and rigorous treatment for constructing optimal wavelet networks the book links mathematical aspects of wavelet network construction to statistical modeling and forecasting applications in areas such as finance chaos and classification The authors ensure that readers obtain a complete understanding of model identification by providing in depth coverage of both model selection and variable significance testing Featuring an accessible approach with introductory coverage of the basic principles of wavelet analysis Wavelet Neural Networks With Applications in Financial Engineering Chaos and Classification also includes Methods that can be easily implemented or adapted by researchers academics and professionals in identification and modeling for complex nonlinear systems and artificial intelligence Multiple examples and thoroughly explained procedures with numerous applications ranging from financial modeling and financial engineering time series prediction and construction of confidence and prediction intervals and classification and chaotic time series prediction An extensive introduction to neural networks that begins with regression models and builds to more complex frameworks Coverage of both the variable selection algorithm and the model selection algorithm for wavelet networks in addition to methods for constructing confidence and prediction intervals Ideal as a textbook for MBA and graduate level courses in applied neural network modeling artificial intelligence advanced data analysis time series and forecasting in financial engineering the book is also useful as a supplement for courses in informatics identification and modeling for complex nonlinear systems and computational finance In addition the book serves as a valuable reference for researchers and practitioners in the fields of mathematical modeling engineering artificial intelligence decision science neural networks and finance and economics *HERCMA 2001 ,2002* Artificial Intelligence Applications and Innovations Lazaros Iliadis,Ilias Maglogiannis,Grigorios Tsoumakas,Ioannis Vlahavas,Max Bramer,2009-07-14 The ever expanding abundance of information and computing power enables searchers and users to tackle highly interesting issues such as applications providing personalized access and interactivity to multimodal information based on user preferences and semantic concepts or human machine interface systems utilizing information on the affective state of the user The general focus of the AIAI conference is to provide insights on how AI can be implemented in real world applications This volume contains papers selected for presentation at the 5th IFIP Conference on Artificial Intelligence Applications Innovations AIAI 2009 being held from 23rd till 25th of April in Thessaloniki Greece The IFIP AIAI 2009 conference is co organized by the Aristotle University of Thessaloniki by the University of Macedonia Thessaloniki and by the Democritus University of Thrace AIAI 2009 is the official conference of the WG12.5 Artificial Intelligence Applications working group of IFIP TC12 the International Federation for Information Processing Technical Committee on Artificial Intelligence AI It is a conference growing and maintaining high standards of quality The purpose of the 5th IFIP AIAI Conference is to bring together researchers engineers and practitioners interested in the technical advances and business industrial applications of intelligent systems AIAI 2009 is not only focused in providing sights on how AI can be implemented in real world applications but it also

covers innovative methods tools and ideas of AI on architectural and algorithmic level **Künstliche neuronale Netze zur Risikomessung bei Aktien und Renten** Markus Rauscher,2013-03-07 Markus Rauscher untersucht die Qualität mit Hilfe künstlicher neuronaler Netze erstellter Vorhersagen hinsichtlich der Volatilität und Korrelation von DAX und REXP Um die Eignung bestimmter Konstellationen zu ermitteln findet eine Vielzahl unterschiedlicher Architekturen und Lernalgorithmen Verwendung Die den herkömmlichen Methoden überlegenen neuronalen Modelle werden dargestellt und sich daraus ergebende Möglichkeiten diskutiert *American Book Publishing Record* ,2000 **Subject Guide to Books in Print** ,1991

Forthcoming Books Rose Arny,1999 *German books in print* ,2003 **Wavelet Neural Networks** Antonios K. Alexandridis,Achilleas D. Zaprani,2014-05-05 A step by step introduction to modeling training and forecasting using wavelet networks Wavelet Neural Networks With Applications in Financial Engineering Chaos and Classification presents the statistical model identification framework that is needed to successfully apply wavelet networks as well as extensive comparisons of alternate methods Providing a concise and rigorous treatment for constructing optimal wavelet networks the book links mathematical aspects of wavelet network construction to statistical modeling and forecasting applications in areas such as finance chaos and classification The authors ensure that readers obtain a complete understanding of model identification by providing in depth coverage of both model selection and variable significance testing Featuring an accessible approach with introductory coverage of the basic principles of wavelet analysis Wavelet Neural Networks With Applications in Financial Engineering Chaos and Classification also includes Methods that can be easily implemented or adapted by researchers academics and professionals in identification and modeling for complex nonlinear systems and artificial intelligence Multiple examples and thoroughly explained procedures with numerous applications ranging from financial modeling and financial engineering time series prediction and construction of confidence and prediction intervals and classification and chaotic time series prediction An extensive introduction to neural networks that begins with regression models and builds to more complex frameworks Coverage of both the variable selection algorithm and the model selection algorithm for wavelet networks in addition to methods for constructing confidence and prediction intervals Ideal as a textbook for MBA and graduate level courses in applied neural network modeling artificial intelligence advanced data analysis time series and forecasting in financial engineering the book is also useful as a supplement for courses in informatics identification and modeling for complex nonlinear systems and computational finance In addition the book serves as a valuable reference for researchers and practitioners in the fields of mathematical modeling engineering artificial intelligence decision science neural networks and finance and economics *Neural Networks in Finance* Paul D. McNelis,2005-01-05 This book explores the intuitive appeal of neural networks and the genetic algorithm in finance It demonstrates how neural networks used in combination with evolutionary computation outperform classical econometric methods for accuracy in forecasting classification and dimensionality reduction McNelis utilizes a variety of examples from forecasting automobile

production and corporate bond spread to inflation and deflation processes in Hong Kong and Japan to credit card default in Germany to bank failures in Texas to cap floor volatilities in New York and Hong Kong Offers a balanced critical review of the neural network methods and genetic algorithms used in finance Includes numerous examples and applications Numerical illustrations use MATLAB code and the book is accompanied by a website *Wavelet Neural Networks* Achilleas Zapranis, Antonios Alexandridis, 2014 A step by step introduction to modeling training and forecasting using wavelet networks *Wavelet Neural Networks With Applications in Financial Engineering Chaos and Classification* presents the statistical model identification framework that is needed to successfully apply wavelet networks as well as extensive comparisons of alternate methods Providing a concise and rigorous treatment for constructing optimal wavelet networks the book links mathematical aspects of wavelet network construction to statistical modeling and forecasting applications in areas such as finance chaos and classification The authors ensure that readers obtain a complete understanding of model identification by providing in depth coverage of both model selection and variable significance testing Featuring an accessible approach with introductory coverage of the basic principles of wavelet analysis *Wavelet Neural Networks With Applications in Financial Engineering Chaos and Classification* also includes Methods that can be easily implemented or adapted by researchers academics and professionals in identification and modeling for complex nonlinear systems and artificial intelligence Multiple examples and thoroughly explained procedures with numerous applications ranging from financial modeling and financial engineering time series prediction and construction of confidence and prediction intervals and classification and chaotic time series prediction An extensive introduction to neural networks that begins with regression models and builds to more complex frameworks Coverage of both the variable selection algorithm and the model selection algorithm for wavelet networks in addition to methods for constructing confidence and prediction intervals Ideal as a textbook for MBA and graduate level courses in applied neural network modeling artificial intelligence advanced data analysis time series and forecasting in financial engineering the book is also useful as a supplement for courses in informatics identification and modeling for complex nonlinear systems and computational finance In addition the book serves as a valuable reference for researchers and practitioners in the fields of mathematical modeling engineering artificial intelligence decision science neural networks and finance and economics

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