

INTRODUCTION TO ECONOMETRICS STOCK WATSON EMPIRICAL EXERCISE

EMPIRICAL VECTOR AUTOREGRESSIVE MODELING NONLINEAR TIME SERIES ANALYSIS OF ECONOMIC AND FINANCIAL DATA A DYNAMIC USE OF SURVEY DATA AND HIGH FREQUENCY MODEL FORECASTING EMPIRICAL METHODS IN INTERNATIONAL TRADE ECONOMIC FORECASTS JOURNAL OF EMPIRICAL FINANCE THE EFFECT OF BANKING SECTOR DEVELOPMENT ON ECONOMIC GROWTH. EMPIRICAL ANALYSIS FROM ETHIOPIAN ECONOMY FINAL EMPIRICAL EVIDENCE ON INTERNATIONAL BUSINESS CYCLES ANOTHER LOOK AT THE EVIDENCE ON MONEY-INCOME CAUSALITY THEORETICAL AND EMPIRICAL EXERCISES IN ECONOMETRICS COMMODITY CURRENCIES AND EMPIRICAL EXCHANGE RATE PUZZLES PRESENTATION OF MULTIATTRIBUTE DATA MARKOV SWITCHING CAUSALITY AND THE MONEY-OUTPUT RELATIONSHIP JOURNAL OF ECONOMETRICS INTRODUCTION TO ECONOMETRICS COMBINING FORECASTS FROM NESTED MODELS QUARTERLY REVIEW GIORNALE DEGLI ECONOMISTI E RIVISTA DI STATISTICA MONEY, INCOME AND PRICES AFTER THE 1980s RECENT ADVANCES IN COMPUTER SCIENCE AND INFORMATION ENGINEERING MARIUS OOMS PHILIP ROTHMAN YOSHIHISA INADA MICHAEL G. PLUMMER RALF BRÜGGEMANN ZELALEM BIRHAN HAMID REZA DAVOODI BENJAMIN M. FRIEDMAN NLANDU MAMINGI KENNETH ROGOFF NARAYAN S. UMANATH ZACHARIAS PSARADAKIS JAMES H. STOCK TODD E. CLARK FEDERAL RESERVE BANK OF MINNEAPOLIS BENJAMIN M. FRIEDMAN ZHIHONG QIAN

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1 1 INTEGRATING RESULTS THE EMPIRICAL STUDY OF MACROECONOMIC TIME SERIES IS INTERESTING IT IS ALSO DIFFICULT AND NOT IMMEDIATELY REWARDING MANY STATISTICAL AND ECONOMIC ISSUES ARE INVOLVED THE MAIN PROBLEMS IS THAT THESE ISSUES ARE SO INTERRELATED THAT IT DOES NOT SEEM SENSIBLE TO ADDRESS THEM ONE AT A TIME AS SOON AS ONE SETS ABOUT THE MAKING OF A MODEL OF MACROECONOMIC TIME SERIES ONE HAS TO CHOOSE WHICH PROBLEMS ONE WILL TRY TO TACKLE ONESELF AND WHICH PROBLEMS ONE WILL LEAVE UNRESOLVED OR TO BE SOLVED BY OTHERS FROM A THEORETIC POINT OF VIEW IT CAN BE FRUITFUL TO CONCENTRATE ONESELF ON ONLY ONE PROBLEM IF ONE FOLLOWS THIS STRATEGY IN EMPIRICAL APPLICATION ONE RUNS A SERIOUS RISK OF MAKING A SEEMINGLY INTERESTING MODEL THAT IS JUST A COROLLARY OF SOME IMPORTANT MISTAKE IN THE HANDLING OF OTHER PROBLEMS TWO WELL KNOWN EXAMPLES OF STATISTICAL ARTIFACTS ARE THE FINDING OF KUZNETS PSEUDO WAVES OF ABOUT 20 YEARS IN ECONOMIC ACTIVITY SARGENT 1979 P 248 AND THE SPURIOUS REGRESSION OF MACROECONOMIC TIME SERIES DESCRIBED IN GRANGER AND NEWBOLD 1986 6 4 THE EASIEST WAY TO GET AWAY WITH POSSIBLE MISTAKES IS TO ADMIT THEY MAY BE THERE IN THE FIRST PLACE BUT THAT TIME CONSTRAINTS AND UNFAMILIARITY WITH THE SOLUTION DO NOT ALLOW THE RESEARCHER TO DO SOMETHING ABOUT THEM THIS CAN BE A VIABLE ARGUMENT

NONLINEAR TIME SERIES ANALYSIS OF ECONOMIC AND FINANCIAL DATA PROVIDES AN EXAMINATION OF THE FLOURISHING INTEREST THAT HAS DEVELOPED IN THIS AREA OVER THE PAST DECADE THE CONSTANT THEME THROUGHOUT THIS WORK IS THAT STANDARD LINEAR TIME SERIES TOOLS LEAVE UNEXAMINED AND UNEXPLOITED ECONOMICALLY SIGNIFICANT FEATURES IN FREQUENTLY USED DATA SETS THE BOOK COMPRISES ORIGINAL CONTRIBUTIONS WRITTEN BY SPECIALISTS IN THE FIELD AND OFFERS A COMBINATION OF BOTH APPLIED AND METHODOLOGICAL PAPERS IT WILL BE USEFUL TO BOTH SEASONED VETERANS OF NONLINEAR TIME SERIES ANALYSIS AND THOSE SEARCHING FOR AN INFORMATIVE PANORAMIC LOOK AT FRONT LINE DEVELOPMENTS IN THE AREA

THIS VOLUME INVESTIGATES THE ACCURACY AND DYNAMIC PERFORMANCE OF A HIGH FREQUENCY FORECAST MODEL FOR THE JAPANESE AND UNITED STATES ECONOMIES BASED ON THE CURRENT QUARTER MODEL CQM OR HIGH FREQUENCY MODEL HFM DEVELOPED BY THE LATE PROFESSOR EMERITUS LAWRENCE R KLEIN IT ALSO PRESENTS A SURVEY OF RECENT DEVELOPMENTS IN HIGH FREQUENCY FORECASTS AND GIVES AN EXAMPLE APPLICATION OF THE CQM MODEL IN FORECASTING GROSS REGIONAL PRODUCTS GRPS

INTERNATIONALIZATION OF THE WORLD ECONOMY HAS MADE TRADE A KEY FACTOR IN THE GROWTH POTENTIAL OF NEARLY EVERY NATION S ECONOMY HENCE ECONOMISTS HAVE BECOME INCREASINGLY INTERESTED IN THE DETERMINANTS OF INTERNATIONAL TRADE AND COMPETITIVENESS EMPIRICAL METHODS IN INTERNATIONAL TRADE CAPTURES THE MANY ASPECTS OF THIS TREND IN GLOBALIZATION THROUGH PRACTICAL TECHNIQUES WELL FOUNDED IN ECONOMIC THEORY THE AUTHORS COMPRISING SOME OF THE MOST INFLUENTIAL APPLIED INTERNATIONAL ECONOMISTS OF THEIR GENERATION USE CUTTING EDGE MODELS TO DEVELOP EMPIRICAL APPROACHES TO CRITICAL ASPECTS OF ECONOMIC INTERCHANGE THESE APPROACHES ARE DEVELOPED AND EXPLAINED CAREFULLY WITH THE GOAL OF MAKING THEM ACCESSIBLE TO A WIDE AUDIENCE TOPICS INCLUDE INTER ALIA LABOR MARKETS AND TRADE REGIONAL ECONOMIC INTEGRATION MEASURES OF NATIONAL COMPETITIVENESS AND EXPORT SIMILARITY ASPECTS OF THE WTO AND NAFTA TRADE PATTERN PERSISTENCE TRADE IN SERVICES AND VARIOUS CASE STUDIES APPLIED TO EAST ASIA PROFESSORS AND STUDENTS OF INTERNATIONAL ECONOMICS WILL FIND THIS VOLUME A VALUABLE ADDITION TO THEIR LIBRARY AS WILL POLICYMAKERS DEALING WITH ECONOMIC ISSUES OF INTERNATIONAL SCOPE

FORECASTS GUIDE DECISIONS IN ALL AREAS OF ECONOMICS AND FINANCE ECONOMIC POLICY MAKERS BASE THEIR DECISIONS ON BUSINESS CYCLE FORECASTS INVESTMENT DECISIONS OF FIRMS ARE BASED ON DEMAND FORECASTS AND PORTFOLIO MANAGERS TRY TO OUTPERFORM THE MARKET BASED ON FINANCIAL MARKET FORECASTS FORECASTS EXTRACT RELEVANT INFORMATION FROM THE PAST AND HELP TO REDUCE THE INHERENT UNCERTAINTY OF THE FUTURE THE TOPIC OF THIS SPECIAL ISSUE OF THE JOURNAL OF ECONOMICS AND STATISTICS IS THE THEORY AND PRACTISE OF FORECASTING AND FORECAST EVALUATION AND AN OVERVIEW OF THE STATE OF THE ART OF FORECASTING

MASTER S THESIS FROM THE YEAR 2020 IN THE SUBJECT ECONOMICS ECONOMIC CYCLE AND GROWTH GRADE 3 33 ETHIOPIAN CIVIL SERVICE UNIVERSITY LANGUAGE ENGLISH ABSTRACT THIS PAPER EXAMINED THE RELATIONSHIP BETWEEN BANKING SECTOR DEVELOPMENT AND ECONOMIC GROWTH IN ETHIOPIA THE PAPER ALSO EXAMINES THE EFFECT OF BANKING DEVELOPMENT ON ECONOMIC GROWTH IN ETHIOPIA AND TO ESTABLISH WHICH THEORY HOLDS FOR ETHIOPIA BETWEEN THE DEMAND FOLLOWING AND THE SUPPLY LEADING THEORY UNLIKE THE MAJORITY OF PREVIOUS STUDIES THIS STUDY USES THE NEWLY DEVELOPED ARDL BOUNDS TESTING APPROACH TO EXAMINE THE RELATIONSHIP THE ARDL BOUNDS TESTING APPROACH HAS NUMEROUS ADVANTAGES OVER OTHER CO INTEGRATION TECHNIQUES ESPECIALLY WHEN A SHORT TIME SERIES DATASET IS USED IN ORDER TO TEST THE ROBUSTNESS OF THE EMPIRICAL RESULTS THREE PROXIES OF BANK BASED FINANCIAL DEVELOPMENT HAVE BEEN USED NAMELY 1 THE DOMESTIC CREDIT PROVIDED BY THE BANKING SECTOR AS A RATIO OF GDP 2 BROAD MONEY SUPPLY AS A RATIO OF GD 3 PRIVATE CREDIT AS PERCENTAGE OF GDP ANNUAL TIME SERIES DATA BETWEEN THE YEARS 1987 AND 2019 WERE USED FOR THE STUDY FROM THE NATIONAL BANK OF ETHIOPIA NBE STATISTICAL BULLETIN THE STRUCTURAL BREAK UNIT ROOT TEST REVEALED THAT ALL THE VARIABLES ARE STATIONARY AT THEIR FIRST DIFFERENCE THE BOUND TEST COINTEGRATION ANALYSIS ESTABLISHED THE EXISTENCE OF LONG RUN RELATIONSHIP AMONG THE VARIABLES THE ARDL REVEALED THAT DOMESTIC CREDIT PROVIDED BY THE BANKING SECTOR SIGNIFICANTLY AFFECTED ECONOMIC GROWTH IN THE LONG RUN WHILE PRIVATE CREDIT STATISTICAL SIGNIFICANT AND NEGATIVELY AFFECT ECONOMIC GROWTH IN THE SHORT RUN DURING THE PERIOD OF STUDY THE EMPIRICAL RESULTS OF THIS STUDY SHOW THAT THE EFFECT OF BANKING SECTOR DEVELOPMENT AND ECONOMIC GROWTH IN ETHIOPIA IS SENSITIVE TO THE PROXY USED TO MEASURE THE BANKING SECTOR DEVELOPMENT THE POLICYMAKERS NEED TO MAKE POLICIES THAT CAN LEAD TO ESTABLISHMENT OF BANKING INSTITUTIONS IN THE RURAL AREAS WHICH HAVE LIMITED ACCESS TO BANKING

SERVICES AND CREATE ENABLING LEGAL ENVIRONMENT FOR EFFICIENT ALLOCATION OF CREDIT TO THE PRIVATE SECTOR AT THE SAME TIME THE SUPERVISORY ORGAN SHALL ESTABLISH CONDUCIVE ENVIRONMENT FOR BANKING INSTITUTION WHICH ARE ENGAGING IN LOAN GRANTING FOR DIVERSIFIED ECONOMIC SECTORS FOR PRIVATE INVESTMENT

THIS IS A TEXTBOOK DESIGNED FOR UNDERGRADUATE AND GRADUATE STUDENTS AND IS THE RESULT OF THE AUTHOR S MORE THAN TWENTY YEARS OF INVOLVEMENT WITH ECONOMETRICS AS BOTH TEACHER AND RESEARCHER IT CONTAINS THEORY PROBLEMS AND ANSWERS MANY OF WHICH HAVE ALREADY BEEN TESTED EXTENSIVELY IN CLASSROOMS AND TUTORIALS AND THEN REFINED FOR THE BOOK IT INCLUDES THE FOLLOWING TOPICS SINGLE EQUATION REGRESSIONS DUMMY AND LIMITED DEPENDENT VARIABLE MODELS SIMULTANEOUS EQUATIONS MODELS DYNAMIC REGRESSION MODELS UNIT ROOTS COINTEGRATION AND ERROR CORRECTION MODELS AGGREGATION OVER TIME ISSUES FORECASTING AND PANEL DATA MODELS THE BOOK DOES NOT ATTEMPT TO DUPLICATE THE MANY STANDARD ECONOMETRICS BOOKS RATHER IT SUPPLEMENTS THEM BY FOCUSING EXCLUSIVELY ON THEORETICAL AND EMPIRICAL EXERCISES IN A SYSTEMATIC WAY ALTHOUGH MUCH OF THE MATERIAL HAS A CARIBBEAN FLAVOUR ITS RIGOROUS AND CLEAR PRESENTATION WILL APPEAL TO STUDENTS AND TEACHERS WORLDWIDE

THIS PAPER RE EXAMINES EMPIRICAL EXCHANGE RATE PUZZLES BY FOCUSING ON THREE OECD ECONOMIES AUSTRALIA CANADA AND NEW ZEALAND WHERE PRIMARY COMMODITIES CONSTITUTE A SIGNIFICANT SHARE OF THEIR EXPORTS FOR AUSTRALIA AND NEW ZEALAND ESPECIALLY WE FIND THAT THE U S DOLLAR PRICE OF THEIR COMMODITY EXPORTS GENERALLY EXOGENOUS TO THESE SMALL ECONOMIES HAS A STRONG AND STABLE INFLUENCE ON THEIR FLOATING REAL RATES WITH THE QUANTITATIVE MAGNITUDE OF THE EFFECTS CONSISTENT WITH PREDICTIONS OF STANDARD THEORETICAL MODELS HOWEVER AFTER CONTROLLING FOR COMMODITY PRICE SHOCKS THERE IS STILL A PPP PUZZLE IN THE RESIDUAL NEVERTHELESS THE RESULTS HERE ARE RELEVANT TO MANY DEVELOPING COUNTRY COMMODITY EXPORTERS AS THEY LIBERALIZE THEIR CAPITAL MARKETS AND MOVE TOWARDS FLOATING EXCHANGE RATES

THE JOURNAL OF ECONOMETRICS IS DESIGNED TO SERVE AS AN OUTLET FOR IMPORTANT NEW RESEARCH IN BOTH THEORETICAL AND APPLIED ECONOMETRICS THE SCOPE OF THE JOURNAL INCLUDES PAPERS DEALING WITH ESTIMATION AND OTHER METHODOLOGICAL ASPECTS OF THE APPLICATION OF STATISTICAL INFERENCE TO ECONOMIC DATA AS WELL AS PAPERS DEALING WITH THE APPLICATION OF ECONOMETRIC TECHNIQUES TO SUBSTANTIVE AREAS OF ECONOMICS ECONOMETRIC RESEARCH IN THE TRADITIONAL DIVISIONS OF THE DISCIPLINE OR IN THE NEWLY DEVELOPING AREAS OF SOCIAL EXPERIMENTATION ARE DECIDEDLY WITHIN THE RANGE OF THE JOURNAL S INTERESTS

ENSURE STUDENTS GRASP THE RELEVANCE OF ECONOMETRICS WITH INTRODUCTION TO ECONOMETRICS THE TEXT THAT CONNECTS MODERN THEORY AND PRACTICE WITH MOTIVATING ENGAGING APPLICATIONS THE 4TH EDITION MAINTAINS A FOCUS ON CURRENCY WHILE BUILDING ON THE PHILOSOPHY THAT APPLICATIONS SHOULD DRIVE THE THEORY NOT THE OTHER WAY AROUND THE TEXT INCORPORATES REAL WORLD QUESTIONS AND DATA AND METHODS THAT ARE IMMEDIATELY RELEVANT TO THE APPLICATIONS WITH VERY LARGE DATA SETS INCREASINGLY BEING USED IN ECONOMICS AND RELATED FIELDS A NEW CHAPTER DEDICATED TO BIG DATA HELPS STUDENTS LEARN ABOUT THIS GROWING AND EXCITING AREA THIS COVERAGE AND APPROACH MAKE THE SUBJECT COME ALIVE FOR STUDENTS AND HELPS THEM TO BECOME SOPHISTICATED CONSUMERS OF ECONOMETRICS PUBLISHER S DESCRIPTION

MOTIVATED BY THE COMMON FINDING THAT LINEAR AUTOREGRESSIVE MODELS FORECAST BETTER THAN MODELS THAT INCORPORATE ADDITIONAL INFORMATION THIS PAPER PRESENTS ANALYTICAL MONTE CARLO AND EMPIRICAL EVIDENCE ON THE EFFECTIVENESS OF COMBINING FORECASTS FROM NESTED MODELS IN OUR ANALYTICS THE UNRESTRICTED MODEL IS TRUE BUT AS THE SAMPLE SIZE GROWS THE DGP CONVERGES TO THE RESTRICTED MODEL THIS APPROACH CAPTURES THE PRACTICAL REALITY THAT THE PREDICTIVE CONTENT OF VARIABLES OF INTEREST IS OFTEN LOW WE DERIVE MSE MINIMIZING WEIGHTS FOR COMBINING THE RESTRICTED AND UNRESTRICTED FORECASTS IN THE MONTE CARLO AND EMPIRICAL ANALYSIS WE COMPARE THE EFFECTIVENESS OF OUR COMBINATION APPROACH AGAINST RELATED ALTERNATIVES SUCH AS BAYESIAN ESTIMATION

THREE EMPIRICAL FINDINGS PRESENTED IN THIS PAPER SHOW THAT EVIDENCE BASED ON THE MOST RECENT U S EXPERIENCE DOES NOT INDICATE THE KIND OF CLOSE OR RELIABLE RELATIONSHIP BETWEEN MONEY AND NONFINANCIAL ECONOMIC ACTIVITY THAT IF PRESENT MIGHT WARRANT BASING THE DESIGN AND IMPLEMENTATION OF MONETARY POLICY ON MONEY IN A FORMALLY SYSTEMATIC WAY FIRST EXTENDING THE FAMILIAR TIME SERIES ANALYSIS TO INCLUDE DATA FROM THE 1980S SHARPLY WEAKENS THE EVIDENCE FROM PRIOR PERIODS SHOWING THAT SUCH RELATIONSHIPS EXISTED BETWEEN MONEY AND NOMINAL INCOME OR BETWEEN MONEY AND EITHER REAL INCOME OR PRICES CONSIDERED SEPARATELY FOCUSING ON DATA FROM 1970 ONWARD DESTROYS THIS EVIDENCE ALTOGETHER SECOND THE FINDING BY STOCK AND WATSON THAT PARTICULAR FORMS OF TIME SERIES EXPERIMENTS STILL SHOWED A SIGNIFICANT ROLE FOR MONEY IN AFFECTING REAL OUTPUT THROUGH 1985 NOT ONLY BECOMES WEAKER ON THE INCLUSION OF DATA FROM 1986 AND 1987 BUT ALSO EVEN FOR DATA THROUGH 1985 ONLY TURNS OUT TO DEPEND ON THE USE IN THEIR ANALYSIS OF A PARTICULAR SHORT TERM INTEREST RATE THE TREASURY BILL RATE USING INSTEAD THE COMMERCIAL PAPER RATE WHICH APPARENTLY IS SUPERIOR IN CAPTURING THE INFORMATION IN FINANCIAL PRICES THAT MATTERS FOR REAL OUTPUT ALSO GREATLY WEAKENS THEIR RESULT SIMULTANEOUSLY USING THE COMMERCIAL PAPER RATE AND INCLUDING DATA THROUGH 1987 DESTROYS IT ALTOGETHER THIRD EXTENDING THE ANALYSIS THROUGH 1987 ALSO DESTROYS THE TIME SERIES EVIDENCE FROM EARLIER PERIODS SHOWING THAT MONEY AND INCOME ARE CO INTEGRATED EVEN IF MONETARY POLICY WERE TO BE CONDUCTED IN TERMS OF TARGETS FOR MONEY GROWTH THE FAILURE OF MONEY AND INCOME TO BE CO INTEGRATED MEANS THAT THERE IS NO EMPIRICAL GROUND FOR RESISTING THE BASE DRIFT THAT RESULTS FROM PERSISTENT RANDOM DIFFERENCES BETWEEN ACTUAL MONEY GROWTH AND THE CORRESPONDING TARGET

CSIE 2011 IS AN INTERNATIONAL SCIENTIFIC CONGRESS FOR DISTINGUISHED SCHOLARS ENGAGED IN SCIENTIFIC ENGINEERING AND TECHNOLOGICAL RESEARCH DEDICATED TO BUILD A PLATFORM FOR EXPLORING AND DISCUSSING THE FUTURE OF COMPUTER SCIENCE AND INFORMATION ENGINEERING WITH EXISTING AND POTENTIAL APPLICATION SCENARIOS THE CONGRESS HAS BEEN HELD TWICE IN LOS ANGELES USA FOR THE FIRST AND IN CHANGCHUN CHINA FOR THE SECOND TIME EACH OF WHICH ATTRACTED A LARGE NUMBER OF RESEARCHERS FROM ALL OVER THE WORLD THE CONGRESS TURNS OUT TO DEVELOP A SPIRIT OF COOPERATION THAT LEADS TO NEW FRIENDSHIP FOR ADDRESSING A WIDE VARIETY OF ONGOING PROBLEMS IN THIS VIBRANT AREA OF TECHNOLOGY AND FOSTERING MORE COLLABORATION OVER THE WORLD THE CONGRESS CSIE 2011 RECEIVED 2483 FULL PAPER AND ABSTRACT SUBMISSIONS FROM 27 COUNTRIES AND REGIONS OVER THE WORLD THROUGH A RIGOROUS PEER REVIEW PROCESS ALL SUBMISSIONS WERE REFEREED BASED ON THEIR QUALITY OF CONTENT LEVEL OF INNOVATION SIGNIFICANCE ORIGINALITY AND LEGIBILITY 688 PAPERS HAVE BEEN ACCEPTED FOR THE INTERNATIONAL CONGRESS PROCEEDINGS ULTIMATELY

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LITERARY MARVELS. IN THIS INTRODUCTION TO ECONOMETRICS STOCK WATSON EMPIRICAL EXERCISE ASSESSMENT, WE WILL EXPLORE THE INTRICACIES OF THE PLATFORM, EXAMINING ITS FEATURES, CONTENT VARIETY, USER INTERFACE, AND THE OVERALL READING EXPERIENCE IT PLEDGES.

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