

Forex Trend Classification Using Machine Learning Techniques

YEAH, REVIEWING A BOOKS **FOREX TREND CLASSIFICATION USING MACHINE LEARNING TECHNIQUES** COULD MOUNT UP YOUR NEAR LINKS LISTINGS. THIS IS JUST ONE OF THE SOLUTIONS FOR YOU TO BE SUCCESSFUL. AS UNDERSTOOD, COMPLETION DOES NOT SUGGEST THAT YOU HAVE EXTRAORDINARY POINTS.

COMPREHENDING AS WITHOUT DIFFICULTY AS BARGAIN EVEN MORE THAN NEW WILL MEET THE EXPENSE OF EACH SUCCESS. BORDERING TO, THE STATEMENT AS WITHOUT DIFFICULTY AS SHARPNESS OF THIS FOREX TREND CLASSIFICATION USING MACHINE LEARNING TECHNIQUES CAN BE TAKEN AS WITH EASE AS PICKED TO ACT.

FOREX TRADING STRATEGIES - IFC MARKETS

“FOREX TRADING STRATEGIES” IS A COMPLETE GUIDE OF MOST POPULAR AND WIDELY USED STRATEGIES IN FOREX TRADE. YOU CAN READ ABOUT DAY TRADING AND ITS MAIN TYPES, UNDERSTAND THE STRATEGIES BASED ON MARKET ANALYSIS, LEARN ABOUT PORTFOLIO AND ALGORITHMIC TRADING, AND MANY MORE. THE BOOK REPRESENTS THE INS AND OUTS OF EACH STRATEGY - WHY AND HOW IT IS USED AND HOW TO GET PROFIT FROM TRADE. IT IS SUITABLE FOR ALL TRADERS WHO ARE NOVICE IN TRADE OR WANT TO IMPROVE THEIR SKILLS. ALL THE STRATEGIES CLASSIFIED AND EXPLAINED HERE ARE FOR EDUCATIONAL PURPOSES AND CAN BE APPLIED BY EACH TRADER IN A DIFFERENT WAY.

THE SAGE HANDBOOK OF ONLINE RESEARCH METHODS - NIGEL G FIELDING 2016-09-30

ONLINE RESEARCH METHODS ARE POPULAR, DYNAMIC AND FAST-CHANGING. FOLLOWING ON FROM THE GREAT SUCCESS OF THE FIRST EDITION, PUBLISHED IN 2008, THE SAGE HANDBOOK OF ONLINE RESEARCH METHODS, SECOND EDITION OFFERS BOTH UPDATES OF EXISTING SUBJECT AREAS AND NEW CHAPTERS COVERING MORE RECENT DEVELOPMENTS, SUCH AS SOCIAL MEDIA, BIG DATA, DATA VISUALIZATION AND CAQDAS. BRINGING TOGETHER THE LEADING NAMES IN BOTH QUALITATIVE AND QUANTITATIVE ONLINE RESEARCH, THIS NEW EDITION IS ORGANISED INTO NINE SECTIONS: 1. ONLINE RESEARCH METHODS 2. DESIGNING ONLINE RESEARCH 3. ONLINE DATA CAPTURE AND DATA COLLECTION 4. THE ONLINE SURVEY 5. DIGITAL QUANTITATIVE ANALYSIS 6. DIGITAL TEXT ANALYSIS 7. VIRTUAL ETHNOGRAPHY 8. ONLINE SECONDARY ANALYSIS: RESOURCES AND METHODS 9. THE FUTURE OF ONLINE SOCIAL RESEARCH THE SAGE HANDBOOK OF ONLINE RESEARCH METHODS, SECOND EDITION IS AN ESSENTIAL RESOURCE FOR ANYONE INTERESTED IN THE CONTEMPORARY PRACTICE OF COMPUTER-MEDIATED RESEARCH AND SCHOLARSHIP.

THE MAN WHO SOLVED THE MARKET - GREGORY ZUCKERMAN 2019-11-05

NEW YORK TIMES BESTSELLER SHORTLISTED FOR THE FINANCIAL TIMES/MCKINSEY BUSINESS BOOK OF THE YEAR AWARD THE UNBELIEVABLE STORY OF A SECRETEIVE MATHEMATICIAN WHO PIONEERED THE ERA OF THE ALGORITHM--AND MADE \$23 BILLION DOING IT. JIM SIMONS IS THE GREATEST MONEY MAKER IN MODERN FINANCIAL HISTORY. NO OTHER INVESTOR--WARREN BUFFETT, PETER LYNCH, RAY DALIO, STEVE COHEN, OR GEORGE SOROS--CAN TOUCH HIS RECORD. SINCE 1988, RENAISSANCE'S SIGNATURE MEDALLION FUND HAS GENERATED AVERAGE ANNUAL RETURNS OF 66 PERCENT. THE FIRM HAS EARNED PROFITS OF MORE THAN \$100 BILLION; SIMONS IS WORTH TWENTY-THREE BILLION DOLLARS. DRAWING ON UNPRECEDENTED ACCESS TO SIMONS AND DOZENS OF CURRENT AND FORMER EMPLOYEES, ZUCKERMAN, A VETERAN WALL STREET JOURNAL INVESTIGATIVE REPORTER, TELLS THE GRIPPING STORY OF HOW A WORLD-CLASS MATHEMATICIAN AND FORMER CODE BREAKER MASTERED THE MARKET. SIMONS PIONEERED A DATA-DRIVEN, ALGORITHMIC APPROACH THAT'S SWEEPING THE WORLD. AS RENAISSANCE BECAME A MARKET FORCE, ITS EXECUTIVES BEGAN INFLUENCING THE WORLD BEYOND FINANCE. SIMONS BECAME A MAJOR FIGURE IN SCIENTIFIC RESEARCH, EDUCATION, AND LIBERAL POLITICS. SENIOR EXECUTIVE ROBERT MERCER IS MORE RESPONSIBLE THAN ANYONE ELSE FOR THE TRUMP PRESIDENCY, PLACING STEVE BANNON IN THE CAMPAIGN AND FUNDING TRUMP'S VICTORIOUS 2016 EFFORT. MERCER ALSO IMPACTED THE CAMPAIGN BEHIND BREXIT. THE MAN WHO SOLVED THE MARKET IS A PORTRAIT OF A MODERN-DAY MIDAS WHO REMADE MARKETS IN HIS OWN IMAGE, BUT FAILED TO ANTICIPATE HOW HIS SUCCESS WOULD IMPACT HIS FIRM AND HIS COUNTRY. IT'S ALSO A STORY OF WHAT SIMONS'S REVOLUTION MEANS FOR THE REST OF US.

INTRODUCTION TO DATA MINING AND ANALYTICS - KRIS JAMSA 2020-02-03

DATA MINING AND ANALYTICS PROVIDES A BROAD AND INTERACTIVE OVERVIEW OF A RAPIDLY GROWING FIELD. THE EXPONENTIALLY INCREASING RATE AT WHICH DATA IS GENERATED CREATES A CORRESPONDING NEED FOR PROFESSIONALS WHO CAN EFFECTIVELY HANDLE ITS STORAGE, ANALYSIS, AND TRANSLATION.

SECOND INTERNATIONAL CONFERENCE ON SUSTAINABLE TECHNOLOGIES FOR COMPUTATIONAL INTELLIGENCE - ASHISH KUMAR LUHACH 2021-10-18

THIS BOOK GATHERS HIGH-QUALITY PAPERS PRESENTED AT THE SECOND INTERNATIONAL CONFERENCE ON SUSTAINABLE TECHNOLOGIES FOR COMPUTATIONAL INTELLIGENCE (ICTSCI 2021) HELD AT GRAPHIC ERA UNIVERSITY, DEHRADUN, INDIA, DURING MAY 22-23, 2021. IT COVERS EMERGING TOPICS IN COMPUTATIONAL INTELLIGENCE AND EFFECTIVE STRATEGIES FOR ITS IMPLEMENTATION IN ENGINEERING APPLICATIONS.

ADVANCED NETWORK TECHNOLOGIES AND INTELLIGENT COMPUTING - ISAAC WOUNGANG 2022-02-17

THIS VOLUME CONSTITUTES THE SELECTED PAPERS PRESENTED AT THE FIRST INTERNATIONAL CONFERENCE ON ADVANCED NETWORK TECHNOLOGIES AND INTELLIGENT COMPUTING, ANTIC 2021, HED IN VARANASI, INDIA, IN DECEMBER 2021. DUE TO THE COVID-19 PANDEMIC THE CONFERENCE WAS HELD ONLINE. THE 61 PAPERS PRESENTED WERE THOROUGHLY REVIEWED AND SELECTED FROM 593 SUBMISSIONS. THEY ARE ORGANIZED IN TOPICAL SECTIONS ON ADVANCED NETWORK TECHNOLOGIES AND INTELLIGENT COMPUTING. ;

SOFT COMPUTING FOR PROBLEM SOLVING - MANOJ THAKUR 2023-03-01

THIS BOOK PROVIDES AN INSIGHT INTO THE 11TH INTERNATIONAL CONFERENCE ON SOFT COMPUTING FOR PROBLEM SOLVING (SocProS 2022). THIS INTERNATIONAL CONFERENCE IS A JOINT TECHNICAL COLLABORATION OF THE SOFT COMPUTING RESEARCH SOCIETY AND THE INDIAN INSTITUTE OF TECHNOLOGY MANDI. THIS BOOK PRESENTS THE LATEST ACHIEVEMENTS AND INNOVATIONS IN THE INTERDISCIPLINARY AREAS OF SOFT COMPUTING, MACHINE LEARNING, AND DATA SCIENCE. IT BRINGS TOGETHER THE RESEARCHERS, ENGINEERS, AND PRACTITIONERS TO DISCUSS THOUGHT-PROVOKING DEVELOPMENTS AND CHALLENGES, IN ORDER TO SELECT POTENTIAL FUTURE DIRECTIONS. IT COVERS ORIGINAL RESEARCH PAPERS IN THE AREAS INCLUDING BUT NOT LIMITED TO ALGORITHMS (ARTIFICIAL NEURAL NETWORK, DEEP LEARNING, STATISTICAL METHODS, GENETIC ALGORITHM, AND PARTICLE SWARM OPTIMIZATION) AND APPLICATIONS (DATA MINING AND CLUSTERING, COMPUTER VISION, MEDICAL AND HEALTHCARE, FINANCE, DATA ENVELOPMENT ANALYSIS, BUSINESS, AND FORECASTING APPLICATIONS). THIS BOOK IS BENEFICIAL FOR YOUNG AS WELL AS EXPERIENCED RESEARCHERS DEALING ACROSS COMPLEX AND INTRICATE REAL-WORLD PROBLEMS FOR WHICH FINDING A SOLUTION BY TRADITIONAL METHODS IS A DIFFICULT TASK.

DATA MINING - IAN H. WITTEN 2016-10-01

DATA MINING: PRACTICAL MACHINE LEARNING TOOLS AND TECHNIQUES, FOURTH EDITION, OFFERS A THOROUGH GROUNDING IN MACHINE LEARNING CONCEPTS, ALONG WITH PRACTICAL ADVICE ON APPLYING THESE TOOLS AND TECHNIQUES IN REAL-WORLD DATA MINING SITUATIONS. THIS HIGHLY ANTICIPATED FOURTH EDITION OF THE MOST ACCLAIMED WORK ON DATA MINING AND MACHINE LEARNING TEACHES READERS EVERYTHING THEY NEED TO KNOW TO GET GOING, FROM PREPARING INPUTS, INTERPRETING OUTPUTS, EVALUATING RESULTS, TO THE ALGORITHMIC METHODS AT THE HEART OF SUCCESSFUL DATA MINING APPROACHES. EXTENSIVE UPDATES REFLECT THE TECHNICAL CHANGES AND MODERNIZATIONS THAT HAVE TAKEN PLACE IN THE FIELD SINCE THE LAST EDITION, INCLUDING SUBSTANTIAL NEW CHAPTERS ON PROBABILISTIC METHODS AND ON DEEP LEARNING. ACCOMPANYING THE BOOK IS A NEW VERSION OF THE POPULAR WEKA MACHINE LEARNING SOFTWARE FROM THE UNIVERSITY OF WAIKATO. AUTHORS WITTEN, FRANK, HALL, AND PAL INCLUDE TODAY'S TECHNIQUES COUPLED WITH THE METHODS AT THE LEADING EDGE OF CONTEMPORARY RESEARCH. PLEASE VISIT THE BOOK COMPANION WEBSITE AT [HTTP://WWW.CS.WAIKATO.AC.NZ/ML/WEKA/BOOK.HTML](http://www.cs.waikato.ac.nz/ml/weka/book.html) IT CONTAINS POWERPOINT SLIDES FOR CHAPTERS 1-12. THIS IS A VERY COMPREHENSIVE TEACHING RESOURCE, WITH MANY PPT SLIDES COVERING EACH CHAPTER OF THE BOOK ONLINE APPENDIX ON THE WEKA WORKBENCH; AGAIN A VERY COMPREHENSIVE LEARNING AID FOR THE OPEN SOURCE SOFTWARE THAT GOES WITH THE BOOK TABLE OF CONTENTS, HIGHLIGHTING THE MANY NEW SECTIONS IN THE 4TH EDITION, ALONG WITH REVIEWS OF THE 1ST EDITION, ERRATA, ETC. PROVIDES A THOROUGH GROUNDING IN MACHINE LEARNING CONCEPTS, AS WELL AS PRACTICAL ADVICE ON APPLYING THE TOOLS AND TECHNIQUES TO DATA MINING PROJECTS PRESENTS CONCRETE TIPS AND TECHNIQUES FOR PERFORMANCE IMPROVEMENT THAT WORK BY TRANSFORMING THE INPUT OR OUTPUT IN MACHINE LEARNING METHODS INCLUDES A DOWNLOADABLE WEKA SOFTWARE TOOLKIT, A COMPREHENSIVE COLLECTION OF MACHINE LEARNING ALGORITHMS FOR DATA MINING TASKS-IN AN EASY-TO-USE INTERACTIVE INTERFACE INCLUDES OPEN-ACCESS ONLINE COURSES THAT INTRODUCE PRACTICAL APPLICATIONS OF THE MATERIAL IN THE BOOK DATA SCIENCE FOR ECONOMICS AND FINANCE - SERGIO CONSOLI 2021

THIS OPEN ACCESS BOOK COVERS THE USE OF DATA SCIENCE, INCLUDING ADVANCED MACHINE LEARNING, BIG DATA ANALYTICS, SEMANTIC WEB TECHNOLOGIES, NATURAL LANGUAGE PROCESSING, SOCIAL MEDIA ANALYSIS, TIME SERIES ANALYSIS, AMONG OTHERS, FOR APPLICATIONS IN ECONOMICS AND FINANCE. IN ADDITION, IT SHOWS SOME SUCCESSFUL APPLICATIONS OF ADVANCED DATA SCIENCE SOLUTIONS USED TO EXTRACT NEW KNOWLEDGE FROM DATA IN ORDER TO IMPROVE ECONOMIC FORECASTING MODELS. THE BOOK STARTS WITH AN INTRODUCTION ON THE USE OF DATA SCIENCE TECHNOLOGIES IN ECONOMICS AND FINANCE AND IS FOLLOWED BY THIRTEEN CHAPTERS SHOWING SUCCESS STORIES OF THE APPLICATION OF SPECIFIC DATA SCIENCE METHODOLOGIES, TOUCHING ON PARTICULAR TOPICS RELATED TO NOVEL BIG DATA SOURCES AND TECHNOLOGIES FOR ECONOMIC ANALYSIS (E.G. SOCIAL MEDIA AND NEWS); BIG DATA MODELS LEVERAGING ON SUPERVISED/UNSUPERVISED (DEEP) MACHINE LEARNING; NATURAL LANGUAGE PROCESSING TO BUILD ECONOMIC AND FINANCIAL INDICATORS; AND FORECASTING AND NOWCASTING OF ECONOMIC VARIABLES THROUGH TIME SERIES ANALYSIS. THIS BOOK IS RELEVANT TO ALL STAKEHOLDERS INVOLVED IN DIGITAL AND DATA-INTENSIVE RESEARCH IN ECONOMICS AND FINANCE, HELPING THEM TO UNDERSTAND THE MAIN OPPORTUNITIES AND CHALLENGES, BECOME FAMILIAR WITH THE LATEST METHODOLOGICAL FINDINGS, AND LEARN HOW TO USE AND EVALUATE THE PERFORMANCES OF NOVEL TOOLS AND FRAMEWORKS. IT PRIMARILY TARGETS DATA SCIENTISTS AND BUSINESS ANALYSTS EXPLOITING DATA SCIENCE TECHNOLOGIES, AND IT WILL ALSO BE A USEFUL RESOURCE TO RESEARCH STUDENTS IN DISCIPLINES AND COURSES RELATED TO THESE TOPICS. OVERALL, READERS WILL LEARN MODERN AND EFFECTIVE DATA SCIENCE SOLUTIONS TO CREATE TANGIBLE INNOVATIONS FOR ECONOMIC AND FINANCIAL APPLICATIONS.

COMPUTATIONAL INTELLIGENCE IN ECONOMICS AND FINANCE - PAUL P. WANG 2007-07-11

READERS WILL FIND, IN THIS HIGHLY RELEVANT AND GROUNDBREAKING BOOK, RESEARCH RANGING FROM APPLICATIONS IN FINANCIAL

MARKETS AND BUSINESS ADMINISTRATION TO VARIOUS ECONOMICS PROBLEMS. NOT ONLY ARE EMPIRICAL STUDIES UTILIZING VARIOUS CI ALGORITHMS PRESENTED, BUT SO ALSO ARE THEORETICAL MODELS BASED ON COMPUTATIONAL METHODS. IN ADDITION TO DIRECT APPLICATIONS OF COMPUTATIONAL INTELLIGENCE, READERS CAN ALSO OBSERVE HOW THESE METHODS ARE COMBINED WITH CONVENTIONAL ANALYTICAL METHODS SUCH AS STATISTICAL AND ECONOMETRIC MODELS TO YIELD PREFERRED RESULTS.

DEEP LEARNING FOR TIME SERIES FORECASTING - JASON BROWNLEE 2018-08-30

DEEP LEARNING METHODS OFFER A LOT OF PROMISE FOR TIME SERIES FORECASTING, SUCH AS THE AUTOMATIC LEARNING OF TEMPORAL DEPENDENCE AND THE AUTOMATIC HANDLING OF TEMPORAL STRUCTURES LIKE TRENDS AND SEASONALITY. WITH CLEAR EXPLANATIONS, STANDARD PYTHON LIBRARIES, AND STEP-BY-STEP TUTORIAL LESSONS YOU'LL DISCOVER HOW TO DEVELOP DEEP LEARNING MODELS FOR YOUR OWN TIME SERIES FORECASTING PROJECTS.

REINFORCEMENT LEARNING AND DYNAMIC PROGRAMMING USING FUNCTION APPROXIMATORS - LUCIAN BUSONI 2017-07-28

FROM HOUSEHOLD APPLIANCES TO APPLICATIONS IN ROBOTICS, ENGINEERED SYSTEMS INVOLVING COMPLEX DYNAMICS CAN ONLY BE AS EFFECTIVE AS THE ALGORITHMS THAT CONTROL THEM. WHILE DYNAMIC PROGRAMMING (DP) HAS PROVIDED RESEARCHERS WITH A WAY TO OPTIMALLY SOLVE DECISION AND CONTROL PROBLEMS INVOLVING COMPLEX DYNAMIC SYSTEMS, ITS PRACTICAL VALUE WAS LIMITED BY ALGORITHMS THAT LACKED THE CAPACITY TO SCALE UP TO REALISTIC PROBLEMS. HOWEVER, IN RECENT YEARS, DRAMATIC DEVELOPMENTS IN REINFORCEMENT LEARNING (RL), THE MODEL-FREE COUNTERPART OF DP, CHANGED OUR UNDERSTANDING OF WHAT IS POSSIBLE. THOSE DEVELOPMENTS LED TO THE CREATION OF RELIABLE METHODS THAT CAN BE APPLIED EVEN WHEN A MATHEMATICAL MODEL OF THE SYSTEM IS UNAVAILABLE, ALLOWING RESEARCHERS TO SOLVE CHALLENGING CONTROL PROBLEMS IN ENGINEERING, AS WELL AS IN A VARIETY OF OTHER DISCIPLINES, INCLUDING ECONOMICS, MEDICINE, AND ARTIFICIAL INTELLIGENCE. REINFORCEMENT LEARNING AND DYNAMIC PROGRAMMING USING FUNCTION APPROXIMATORS PROVIDES A COMPREHENSIVE AND UNPARALLELED EXPLORATION OF THE FIELD OF RL AND DP. WITH A FOCUS ON CONTINUOUS-VARIABLE PROBLEMS, THIS SEMINAL TEXT DETAILS ESSENTIAL DEVELOPMENTS THAT HAVE SUBSTANTIALLY ALTERED THE FIELD OVER THE PAST DECADE. IN ITS PAGES, PIONEERING EXPERTS PROVIDE A CONCISE INTRODUCTION TO CLASSICAL RL AND DP, FOLLOWED BY AN EXTENSIVE PRESENTATION OF THE STATE-OF-THE-ART AND NOVEL METHODS IN RL AND DP WITH APPROXIMATION. COMBINING ALGORITHM DEVELOPMENT WITH THEORETICAL GUARANTEES, THEY ELABORATE ON THEIR WORK WITH ILLUSTRATIVE EXAMPLES AND INSIGHTFUL COMPARISONS. THREE INDIVIDUAL CHAPTERS ARE DEDICATED TO REPRESENTATIVE ALGORITHMS FROM EACH OF THE MAJOR CLASSES OF TECHNIQUES: VALUE ITERATION, POLICY ITERATION, AND POLICY SEARCH. THE FEATURES AND PERFORMANCE OF THESE ALGORITHMS ARE HIGHLIGHTED IN EXTENSIVE EXPERIMENTAL STUDIES ON A RANGE OF CONTROL APPLICATIONS. THE RECENT DEVELOPMENT OF APPLICATIONS INVOLVING COMPLEX SYSTEMS HAS LED TO A SURGE OF INTEREST IN RL AND DP METHODS AND THE SUBSEQUENT NEED FOR A QUALITY RESOURCE ON THE SUBJECT. FOR GRADUATE STUDENTS AND OTHERS NEW TO THE FIELD, THIS BOOK OFFERS A THOROUGH INTRODUCTION TO BOTH THE BASICS AND EMERGING METHODS. AND FOR THOSE RESEARCHERS AND PRACTITIONERS WORKING IN THE FIELDS OF OPTIMAL AND ADAPTIVE CONTROL, MACHINE LEARNING, ARTIFICIAL INTELLIGENCE, AND OPERATIONS RESEARCH, THIS RESOURCE OFFERS A COMBINATION OF PRACTICAL ALGORITHMS, THEORETICAL ANALYSIS, AND COMPREHENSIVE EXAMPLES THAT THEY WILL BE ABLE TO ADAPT AND APPLY TO THEIR OWN WORK. ACCESS THE AUTHORS' WEBSITE AT [WWW.DSC.TUDELFT.NL/RLBOOK/](http://www.dsc.tuelft.nl/rlbook/) FOR ADDITIONAL MATERIAL, INCLUDING COMPUTER CODE USED IN THE STUDIES AND INFORMATION CONCERNING NEW DEVELOPMENTS.

DISRUPTING FINANCE - THEO LYNN 2018-12-06

THIS OPEN ACCESS PIVOT DEMONSTRATES HOW A VARIETY OF TECHNOLOGIES ACT AS INNOVATION CATALYSTS WITHIN THE BANKING AND FINANCIAL SERVICES SECTOR. TRADITIONAL BANKS AND FINANCIAL SERVICES ARE UNDER INCREASING COMPETITION FROM GLOBAL IT COMPANIES SUCH AS GOOGLE, APPLE, AMAZON AND PAYPAL WHILST FACING PRESSURE FROM INVESTORS TO REDUCE COSTS, INCREASE AGILITY AND IMPROVE CUSTOMER RETENTION. TECHNOLOGIES SUCH AS BLOCKCHAIN, CLOUD COMPUTING, MOBILE TECHNOLOGIES, BIG DATA ANALYTICS AND SOCIAL MEDIA THEREFORE HAVE PERHAPS MORE POTENTIAL IN THIS INDUSTRY AND AREA OF BUSINESS THAN ANY OTHER. THIS BOOK DEFINES A FINTECH ECOSYSTEM FOR THE 21ST CENTURY, PROVIDING A STATE-OF-THE-ART REVIEW OF CURRENT LITERATURE, SUGGESTING AVENUES FOR NEW RESEARCH AND OFFERING PERSPECTIVES FROM BUSINESS, TECHNOLOGY AND INDUSTRY.

TIME SERIES ANALYSIS: FORECASTING & CONTROL, 3/E - 1994-09

THIS IS A COMPLETE REVISION OF A CLASSIC, SEMINAL, AND AUTHORITATIVE TEXT THAT HAS BEEN THE MODEL FOR MOST BOOKS ON THE TOPIC WRITTEN SINCE 1970. IT EXPLORES THE BUILDING OF STOCHASTIC (STATISTICAL) MODELS FOR TIME SERIES AND THEIR USE IN IMPORTANT AREAS OF APPLICATION -FORECASTING, MODEL SPECIFICATION, ESTIMATION, AND CHECKING, TRANSFER FUNCTION MODELING OF DYNAMIC RELATIONSHIPS, MODELING THE EFFECTS OF INTERVENTION EVENTS, AND PROCESS CONTROL.

COMPUTATIONAL MANAGEMENT - SRIKANTA PATNAIK 2021-05-29

THIS BOOK OFFERS A TIMELY REVIEW OF CUTTING-EDGE APPLICATIONS OF COMPUTATIONAL INTELLIGENCE TO BUSINESS MANAGEMENT AND FINANCIAL ANALYSIS. IT COVERS A WIDE RANGE OF INTELLIGENT AND OPTIMIZATION TECHNIQUES, REPORTING IN DETAIL ON THEIR APPLICATION TO REAL-WORLD PROBLEMS RELATING TO PORTFOLIO MANAGEMENT AND DEMAND FORECASTING, DECISION MAKING, KNOWLEDGE ACQUISITION, AND SUPPLY CHAIN SCHEDULING AND MANAGEMENT.

MACHINE LEARNING IN FINANCE - MATTHEW F. DIXON 2020-07-01

THIS BOOK INTRODUCES MACHINE LEARNING METHODS IN FINANCE. IT PRESENTS A UNIFIED TREATMENT OF MACHINE LEARNING AND VARIOUS STATISTICAL AND COMPUTATIONAL DISCIPLINES IN QUANTITATIVE FINANCE, SUCH AS FINANCIAL ECONOMETRICS AND DISCRETE TIME STOCHASTIC CONTROL, WITH AN EMPHASIS ON HOW THEORY AND HYPOTHESIS TESTS INFORM THE CHOICE OF ALGORITHM FOR FINANCIAL DATA MODELING AND DECISION MAKING. WITH THE TREND TOWARDS INCREASING COMPUTATIONAL RESOURCES AND LARGER DATASETS, MACHINE LEARNING HAS GROWN INTO AN IMPORTANT SKILLSET FOR THE FINANCE INDUSTRY. THIS BOOK IS WRITTEN FOR ADVANCED GRADUATE STUDENTS AND ACADEMICS IN FINANCIAL ECONOMETRICS, MATHEMATICAL FINANCE AND APPLIED STATISTICS, IN ADDITION TO

QUANTS AND DATA SCIENTISTS IN THE FIELD OF QUANTITATIVE FINANCE. MACHINE LEARNING IN FINANCE: FROM THEORY TO PRACTICE IS DIVIDED INTO THREE PARTS, EACH PART COVERING THEORY AND APPLICATIONS. THE FIRST PRESENTS SUPERVISED LEARNING FOR CROSS-SECTIONAL DATA FROM BOTH A BAYESIAN AND FREQUENTIST PERSPECTIVE. THE MORE ADVANCED MATERIAL PLACES A FIRM EMPHASIS ON NEURAL NETWORKS, INCLUDING DEEP LEARNING, AS WELL AS GAUSSIAN PROCESSES, WITH EXAMPLES IN INVESTMENT MANAGEMENT AND DERIVATIVE MODELING. THE SECOND PART PRESENTS SUPERVISED LEARNING FOR TIME SERIES DATA, ARGUABLY THE MOST COMMON DATA TYPE USED IN FINANCE WITH EXAMPLES IN TRADING, STOCHASTIC VOLATILITY AND FIXED INCOME MODELING. FINALLY, THE THIRD PART PRESENTS REINFORCEMENT LEARNING AND ITS APPLICATIONS IN TRADING, INVESTMENT AND WEALTH MANAGEMENT. PYTHON CODE EXAMPLES ARE PROVIDED TO SUPPORT THE READERS' UNDERSTANDING OF THE METHODOLOGIES AND APPLICATIONS. THE BOOK ALSO INCLUDES MORE THAN 80 MATHEMATICAL AND PROGRAMMING EXERCISES, WITH WORKED SOLUTIONS AVAILABLE TO INSTRUCTORS. AS A BRIDGE TO RESEARCH IN THIS EMERGENT FIELD, THE FINAL CHAPTER PRESENTS THE FRONTIERS OF MACHINE LEARNING IN FINANCE FROM A RESEARCHER'S PERSPECTIVE, HIGHLIGHTING HOW MANY WELL-KNOWN CONCEPTS IN STATISTICAL PHYSICS ARE LIKELY TO EMERGE AS IMPORTANT METHODOLOGIES FOR MACHINE LEARNING IN FINANCE.

TRENDS AND ADVANCES IN INFORMATION SYSTEMS AND TECHNOLOGIES - LVARO ROCHA 2018-03-24

THIS BOOK INCLUDES A SELECTION OF PAPERS FROM THE 2018 WORLD CONFERENCE ON INFORMATION SYSTEMS AND TECHNOLOGIES (WORLD CIST'18), HELD IN NAPLES, ITALY ON MARCH 27-29, 2018. WORLD CIST IS A GLOBAL FORUM FOR RESEARCHERS AND PRACTITIONERS TO PRESENT AND DISCUSS RECENT RESULTS AND INNOVATIONS, CURRENT TRENDS, PROFESSIONAL EXPERIENCES AND THE CHALLENGES OF MODERN INFORMATION SYSTEMS AND TECHNOLOGIES RESEARCH TOGETHER WITH THEIR TECHNOLOGICAL DEVELOPMENT AND APPLICATIONS. THE MAIN TOPICS COVERED ARE: A) INFORMATION AND KNOWLEDGE MANAGEMENT; B) ORGANIZATIONAL MODELS AND INFORMATION SYSTEMS; C) SOFTWARE AND SYSTEMS MODELING; D) SOFTWARE SYSTEMS, ARCHITECTURES, APPLICATIONS AND TOOLS; E) MULTIMEDIA SYSTEMS AND APPLICATIONS; F) COMPUTER NETWORKS, MOBILITY AND PERVASIVE SYSTEMS; G) INTELLIGENT AND DECISION SUPPORT SYSTEMS; H) BIG DATA ANALYTICS AND APPLICATIONS; I) HUMAN-COMPUTER INTERACTION; J) ETHICS, COMPUTERS & SECURITY; K) HEALTH INFORMATICS; L) INFORMATION TECHNOLOGIES IN EDUCATION; M) INFORMATION TECHNOLOGIES IN RADIOCOMMUNICATIONS; N) TECHNOLOGIES FOR BIOMEDICAL APPLICATIONS.

SENTIMENT ANALYSIS FOR SOCIAL MEDIA - CARLOS A. IGLESIAS 2020-04-02

SENTIMENT ANALYSIS IS A BRANCH OF NATURAL LANGUAGE PROCESSING CONCERNED WITH THE STUDY OF THE INTENSITY OF THE EMOTIONS EXPRESSED IN A PIECE OF TEXT. THE AUTOMATED ANALYSIS OF THE MULTITUDE OF MESSAGES DELIVERED THROUGH SOCIAL MEDIA IS ONE OF THE HOTTEST RESEARCH FIELDS, BOTH IN ACADEMY AND IN INDUSTRY, DUE TO ITS EXTREMELY HIGH POTENTIAL APPLICABILITY IN MANY DIFFERENT DOMAINS. THIS SPECIAL ISSUE DESCRIBES BOTH TECHNOLOGICAL CONTRIBUTIONS TO THE FIELD, MOSTLY BASED ON DEEP LEARNING TECHNIQUES, AND SPECIFIC APPLICATIONS IN AREAS LIKE HEALTH INSURANCE, GENDER CLASSIFICATION, RECOMMENDER SYSTEMS, AND CYBER AGGRESSION DETECTION.

INTRODUCTION TO TIME SERIES FORECASTING WITH PYTHON - JASON BROWNLEE 2017-02-16

TIME SERIES FORECASTING IS DIFFERENT FROM OTHER MACHINE LEARNING PROBLEMS. THE KEY DIFFERENCE IS THE FIXED SEQUENCE OF OBSERVATIONS AND THE CONSTRAINTS AND ADDITIONAL STRUCTURE THIS PROVIDES. IN THIS EBOOK, FINALLY CUT THROUGH THE MATH AND SPECIALIZED METHODS FOR TIME SERIES FORECASTING. USING CLEAR EXPLANATIONS, STANDARD PYTHON LIBRARIES AND STEP-BY-STEP TUTORIALS YOU WILL DISCOVER HOW TO LOAD AND PREPARE DATA, EVALUATE MODEL SKILL, AND IMPLEMENT FORECASTING MODELS FOR TIME SERIES DATA.

DEEP LEARNING TECHNIQUES AND OPTIMIZATION STRATEGIES IN BIG DATA ANALYTICS - THOMAS, J. JOSHUA 2019-11-29

MANY APPROACHES HAVE SPROUTED FROM ARTIFICIAL INTELLIGENCE (AI) AND PRODUCED MAJOR BREAKTHROUGHS IN THE COMPUTER SCIENCE AND ENGINEERING INDUSTRIES. DEEP LEARNING IS A METHOD THAT IS TRANSFORMING THE WORLD OF DATA AND ANALYTICS. OPTIMIZATION OF THIS NEW APPROACH IS STILL UNCLEAR, HOWEVER, AND THERE'S A NEED FOR RESEARCH ON THE VARIOUS APPLICATIONS AND TECHNIQUES OF DEEP LEARNING IN THE FIELD OF COMPUTING. DEEP LEARNING TECHNIQUES AND OPTIMIZATION STRATEGIES IN BIG DATA ANALYTICS IS A COLLECTION OF INNOVATIVE RESEARCH ON THE METHODS AND APPLICATIONS OF DEEP LEARNING STRATEGIES IN THE FIELDS OF COMPUTER SCIENCE AND INFORMATION SYSTEMS. WHILE HIGHLIGHTING TOPICS INCLUDING DATA INTEGRATION, COMPUTATIONAL MODELING, AND SCHEDULING SYSTEMS, THIS BOOK IS IDEALLY DESIGNED FOR ENGINEERS, IT SPECIALISTS, DATA ANALYSTS, DATA SCIENTISTS, ENGINEERS, RESEARCHERS, ACADEMICIANS, AND STUDENTS SEEKING CURRENT RESEARCH ON DEEP LEARNING METHODS AND ITS APPLICATION IN THE DIGITAL INDUSTRY.

LONG SHORT-TERM MEMORY NETWORKS WITH PYTHON - JASON BROWNLEE 2017-07-20

THE LONG SHORT-TERM MEMORY NETWORK, OR LSTM FOR SHORT, IS A TYPE OF RECURRENT NEURAL NETWORK THAT ACHIEVES STATE-OF-THE-ART RESULTS ON CHALLENGING PREDICTION PROBLEMS. IN THIS LASER-FOCUSED EBOOK, FINALLY CUT THROUGH THE MATH, RESEARCH PAPERS AND PATCHWORK DESCRIPTIONS ABOUT LSTMS. USING CLEAR EXPLANATIONS, STANDARD PYTHON LIBRARIES AND STEP-BY-STEP TUTORIAL LESSONS YOU WILL DISCOVER WHAT LSTMS ARE, AND HOW TO DEVELOP A SUITE OF LSTM MODELS TO GET THE MOST OUT OF THE METHOD ON YOUR SEQUENCE PREDICTION PROBLEMS.

INTRODUCTION TO MODERN TIME SERIES ANALYSIS - GEBHARD KIRCHGESSNER 2008-08-27

THIS BOOK PRESENTS MODERN DEVELOPMENTS IN TIME SERIES ECONOMETRICS THAT ARE APPLIED TO MACROECONOMIC AND FINANCIAL TIME SERIES. IT CONTAINS THE MOST IMPORTANT APPROACHES TO ANALYZE TIME SERIES WHICH MAY BE STATIONARY OR NONSTATIONARY.

ADVANCES IN FINANCIAL MACHINE LEARNING - MARCOS LOPEZ DE PRADO 2018-01-23

MACHINE LEARNING (ML) IS CHANGING VIRTUALLY EVERY ASPECT OF OUR LIVES. TODAY ML ALGORITHMS ACCOMPLISH TASKS THAT UNTIL RECENTLY ONLY EXPERT HUMANS COULD PERFORM. AS IT RELATES TO FINANCE, THIS IS THE MOST EXCITING TIME TO ADOPT A DISRUPTIVE TECHNOLOGY THAT WILL TRANSFORM HOW EVERYONE INVESTS FOR GENERATIONS. READERS WILL LEARN HOW TO

STRUCTURE BIG DATA IN A WAY THAT IS AMENABLE TO ML ALGORITHMS; HOW TO CONDUCT RESEARCH WITH ML ALGORITHMS ON THAT DATA; HOW TO USE SUPERCOMPUTING METHODS; HOW TO BACKTEST YOUR DISCOVERIES WHILE AVOIDING FALSE POSITIVES. THE BOOK ADDRESSES REAL-LIFE PROBLEMS FACED BY PRACTITIONERS ON A DAILY BASIS, AND EXPLAINS SCIENTIFICALLY SOUND SOLUTIONS USING MATH, SUPPORTED BY CODE AND EXAMPLES. READERS BECOME ACTIVE USERS WHO CAN TEST THE PROPOSED SOLUTIONS IN THEIR PARTICULAR SETTING. WRITTEN BY A RECOGNIZED EXPERT AND PORTFOLIO MANAGER, THIS BOOK WILL EQUIP INVESTMENT PROFESSIONALS WITH THE GROUNDBREAKING TOOLS NEEDED TO SUCCEED IN MODERN FINANCE.

RECENT RESEARCHES IN APPLIED INFORMATICS AND REMOTE SENSING - AZAMI ZAHARIM 2011-09-19

TRENDS IN DATA ENGINEERING METHODS FOR INTELLIGENT SYSTEMS - JUDE HEMANTH 2021-07-05

THIS BOOK BRIEFLY COVERS INTERNATIONALLY CONTRIBUTED CHAPTERS WITH ARTIFICIAL INTELLIGENCE AND APPLIED MATHEMATICS-ORIENTED BACKGROUND-DETAILS. NOWADAYS, THE WORLD IS UNDER ATTACK OF INTELLIGENT SYSTEMS COVERING ALL FIELDS TO MAKE THEM PRACTICAL AND MEANINGFUL FOR HUMANS. IN THIS SENSE, THIS EDITED BOOK PROVIDES THE MOST RECENT RESEARCH ON USE OF ENGINEERING CAPABILITIES FOR DEVELOPING INTELLIGENT SYSTEMS. THE CHAPTERS ARE A COLLECTION FROM THE WORKS PRESENTED AT THE 2ND INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND APPLIED MATHEMATICS IN ENGINEERING HELD WITHIN 09-10-11 OCTOBER 2020 AT THE ANTALYA, MANAVGAT (TURKEY). THE TARGET AUDIENCE OF THE BOOK COVERS SCIENTISTS, EXPERTS, M.SC. AND PH.D. STUDENTS, POST-DOCS, AND ANYONE INTERESTED IN INTELLIGENT SYSTEMS AND THEIR USAGE IN DIFFERENT PROBLEM DOMAINS. THE BOOK IS SUITABLE TO BE USED AS A REFERENCE WORK IN THE COURSES ASSOCIATED WITH ARTIFICIAL INTELLIGENCE AND APPLIED MATHEMATICS.

HYBRID ARTIFICIAL INTELLIGENT SYSTEMS - HUGO SANJURJO GONZALEZ 2021-09-15

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 16TH INTERNATIONAL CONFERENCE ON HYBRID ARTIFICIAL INTELLIGENT SYSTEMS, HAIS 2021, HELD IN BILBAO, SPAIN, IN SEPTEMBER 2021. THE 44 FULL AND 11 SHORT PAPERS PRESENTED IN THIS BOOK WERE CAREFULLY REVIEWED AND SELECTED FROM 81 SUBMISSIONS. THE PAPERS ARE GROUPED INTO THESE TOPICS: DATA MINING, KNOWLEDGE DISCOVERY AND BIG DATA; BIO-INSPIRED MODELS AND EVOLUTIONARY COMPUTATION; LEARNING ALGORITHMS; VISUAL ANALYSIS AND ADVANCED DATA PROCESSING TECHNIQUES; MACHINE LEARNING APPLICATIONS; HYBRID INTELLIGENT APPLICATIONS; DEEP LEARNING APPLICATIONS; AND OPTIMIZATION PROBLEM APPLICATIONS.

THE NATURE OF STATISTICAL LEARNING THEORY - VLADIMIR VAPNIK 2013-06-29

THE AIM OF THIS BOOK IS TO DISCUSS THE FUNDAMENTAL IDEAS WHICH LIE BEHIND THE STATISTICAL THEORY OF LEARNING AND GENERALIZATION. IT CONSIDERS LEARNING AS A GENERAL PROBLEM OF FUNCTION ESTIMATION BASED ON EMPIRICAL DATA. OMITTING PROOFS AND TECHNICAL DETAILS, THE AUTHOR CONCENTRATES ON DISCUSSING THE MAIN RESULTS OF LEARNING THEORY AND THEIR CONNECTIONS TO FUNDAMENTAL PROBLEMS IN STATISTICS. THIS SECOND EDITION CONTAINS THREE NEW CHAPTERS DEVOTED TO FURTHER DEVELOPMENT OF THE LEARNING THEORY AND SVM TECHNIQUES. WRITTEN IN A READABLE AND CONCISE STYLE, THE BOOK IS INTENDED FOR STATISTICIANS, MATHEMATICIANS, PHYSICISTS, AND COMPUTER SCIENTISTS.

TRADING ON THE EDGE - GUIDO J. DEBOECK 1994-04-18

EXPERTS FROM THE WORLD'S MAJOR FINANCIAL INSTITUTIONS CONTRIBUTED TO THIS WORK AND HAVE ALREADY USED THE NEWEST TECHNOLOGIES. GIVES PROVEN STRATEGIES FOR USING NEURAL NETWORKS, ALGORITHMS, FUZZY LOGIC AND NONLINEAR DATA ANALYSIS TECHNIQUES TO ENHANCE PROFITABILITY. THE LATEST ANALYTICAL BREAKTHROUGHS, THE IMPACT ON MODERN FINANCE THEORY AND PRACTICE, INCLUDING THE BEST WAYS FOR PROFITABLY APPLYING THEM TO ANY TRADING AND PORTFOLIO MANAGEMENT SYSTEM, ARE ALL COVERED.

RESEARCH ANTHOLOGY ON MACHINE LEARNING TECHNIQUES, METHODS, AND APPLICATIONS - MANAGEMENT ASSOCIATION, INFORMATION RESOURCES 2022-05-13

MACHINE LEARNING CONTINUES TO HAVE MYRIAD APPLICATIONS ACROSS INDUSTRIES AND FIELDS. TO ENSURE THIS TECHNOLOGY IS UTILIZED APPROPRIATELY AND TO ITS FULL POTENTIAL, ORGANIZATIONS MUST BETTER UNDERSTAND EXACTLY HOW AND WHERE IT CAN BE ADAPTED. FURTHER STUDY ON THE APPLICATIONS OF MACHINE LEARNING IS REQUIRED TO DISCOVER ITS BEST PRACTICES, CHALLENGES, AND STRATEGIES. THE RESEARCH ANTHOLOGY ON MACHINE LEARNING TECHNIQUES, METHODS, AND APPLICATIONS PROVIDES A THOROUGH CONSIDERATION OF THE INNOVATIVE AND EMERGING RESEARCH WITHIN THE AREA OF MACHINE LEARNING. THE BOOK DISCUSSES HOW THE TECHNOLOGY HAS BEEN USED IN THE PAST AS WELL AS POTENTIAL WAYS IT CAN BE USED IN THE FUTURE TO ENSURE INDUSTRIES CONTINUE TO DEVELOP AND GROW. COVERING A RANGE OF TOPICS SUCH AS ARTIFICIAL INTELLIGENCE, DEEP LEARNING, CYBERSECURITY, AND ROBOTICS, THIS MAJOR REFERENCE WORK IS IDEAL FOR COMPUTER SCIENTISTS, MANAGERS, RESEARCHERS, SCHOLARS, PRACTITIONERS, ACADEMICIANS, INSTRUCTORS, AND STUDENTS.

PRACTICAL TIME SERIES ANALYSIS - AILEEN NIELSEN 2019-09-20

TIME SERIES DATA ANALYSIS IS INCREASINGLY IMPORTANT DUE TO THE MASSIVE PRODUCTION OF SUCH DATA THROUGH THE INTERNET OF THINGS, THE DIGITALIZATION OF HEALTHCARE, AND THE RISE OF SMART CITIES. AS CONTINUOUS MONITORING AND DATA COLLECTION BECOME MORE COMMON, THE NEED FOR COMPETENT TIME SERIES ANALYSIS WITH BOTH STATISTICAL AND MACHINE LEARNING TECHNIQUES WILL INCREASE. COVERING INNOVATIONS IN TIME SERIES DATA ANALYSIS AND USE CASES FROM THE REAL WORLD, THIS PRACTICAL GUIDE WILL HELP YOU SOLVE THE MOST COMMON DATA ENGINEERING AND ANALYSIS CHALLENGES IN TIME SERIES, USING BOTH TRADITIONAL STATISTICAL AND MODERN MACHINE LEARNING TECHNIQUES. AUTHOR AILEEN NIELSEN OFFERS AN ACCESSIBLE, WELL-ROUNDED INTRODUCTION TO TIME SERIES IN BOTH R AND PYTHON THAT WILL HAVE DATA SCIENTISTS, SOFTWARE ENGINEERS, AND RESEARCHERS UP AND RUNNING QUICKLY. YOU'LL GET THE GUIDANCE YOU NEED TO CONFIDENTLY: FIND AND WRANGLE TIME SERIES DATA UNDERTAKE EXPLORATORY TIME SERIES DATA ANALYSIS STORE TEMPORAL DATA SIMULATE TIME SERIES DATA GENERATE AND SELECT FEATURES FOR

A TIME SERIES MEASURE ERROR FORECAST AND CLASSIFY TIME SERIES WITH MACHINE OR DEEP LEARNING EVALUATE ACCURACY AND PERFORMANCE

COMPETITION AND COOPERATION IN NEURAL NETS - S. AMARI 2013-03-08

THE HUMAN BRAIN, WITH ITS HUNDRED BILLION OR MORE NEURONS, IS BOTH ONE OF THE MOST COMPLEX SYSTEMS KNOWN TO MAN AND ONE OF THE MOST IMPORTANT. THE LAST DECADE HAS SEEN AN EXPLOSION OF EXPERIMENTAL RESEARCH ON THE BRAIN, BUT LITTLE THEORY OF NEURAL NETWORKS BEYOND THE STUDY OF ELECTRICAL PROPERTIES OF MEMBRANES AND SMALL NEURAL CIRCUITS. NONETHELESS, A NUMBER OF WORKERS IN JAPAN, THE UNITED STATES AND ELSEWHERE HAVE BEGUN TO CONTRIBUTE TO A THEORY WHICH PROVIDES TECHNIQUES OF MATHEMATICAL ANALYSIS AND COMPUTER SIMULATION TO EXPLORE PROPERTIES OF NEURAL SYSTEMS CONTAINING IMMENSE NUMBERS OF NEURONS. RECENTLY, IT HAS BEEN GRADUALLY RECOGNIZED THAT RATHER INDEPENDENT STUDIES OF THE DYNAMICS OF PATTERN RECOGNITION, PATTERN FORMATION, MOTOR CONTROL, SELF-ORGANIZATION, ETC., IN NEURAL SYSTEMS DO IN FACT MAKE USE OF COMMON METHODS. WE FIND THAT A "COMPETITION AND COOPERATION" TYPE OF INTERACTION PLAYS A FUNDAMENTAL ROLE IN PARALLEL INFORMATION PROCESSING IN THE BRAIN. THE PRESENT VOLUME BRINGS TOGETHER 23 PAPERS PRESENTED AT A U. S. -JAPAN JOINT SEMINAR ON "COMPETITION AND COOPERATION IN NEURAL NETS" WHICH WAS DESIGNED TO CATALYZE BETTER INTEGRATION OF THEORY AND EXPERIMENT IN THESE AREAS. IT WAS HELD IN KYOTO, JAPAN, FEBRUARY 15-19, 1982, UNDER THE JOINT SPONSORSHIP OF THE U. S. NATIONAL SCIENCE FOUNDATION AND THE JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE. PARTICIPANTS INCLUDED BRAIN THEORISTS, NEUROPHYSIOLOGISTS, MATHEMATICIANS, COMPUTER SCIENTISTS, AND PHYSICISTS. THERE ARE SEVEN PAPERS FROM THE U. S.

FOREX TREND CLASSIFICATION BY MACHINE LEARNING - AREEJ A. BAASHER 2016-11-17

DEEP LEARNING WITH PYTHON - FRANCOIS CHOLLET 2017-11-30

SUMMARY DEEP LEARNING WITH PYTHON INTRODUCES THE FIELD OF DEEP LEARNING USING THE PYTHON LANGUAGE AND THE POWERFUL KERAS LIBRARY. WRITTEN BY KERAS CREATOR AND GOOGLE AI RESEARCHER FRANCOIS CHOLLET, THIS BOOK BUILDS YOUR UNDERSTANDING THROUGH INTUITIVE EXPLANATIONS AND PRACTICAL EXAMPLES. PURCHASE OF THE PRINT BOOK INCLUDES A FREE eBook IN PDF, KINDLE, AND ePub FORMATS FROM MANNING PUBLICATIONS. ABOUT THE TECHNOLOGY MACHINE LEARNING HAS MADE REMARKABLE PROGRESS IN RECENT YEARS. WE WENT FROM NEAR-UNUSABLE SPEECH AND IMAGE RECOGNITION, TO NEAR-HUMAN ACCURACY. WE WENT FROM MACHINES THAT COULDN'T BEAT A SERIOUS GO PLAYER, TO DEFEATING A WORLD CHAMPION. BEHIND THIS PROGRESS IS DEEP LEARNING—A COMBINATION OF ENGINEERING ADVANCES, BEST PRACTICES, AND THEORY THAT ENABLES A WEALTH OF PREVIOUSLY IMPOSSIBLE SMART APPLICATIONS. ABOUT THE BOOK DEEP LEARNING WITH PYTHON INTRODUCES THE FIELD OF DEEP LEARNING USING THE PYTHON LANGUAGE AND THE POWERFUL KERAS LIBRARY. WRITTEN BY KERAS CREATOR AND GOOGLE AI RESEARCHER FRANCOIS CHOLLET, THIS BOOK BUILDS YOUR UNDERSTANDING THROUGH INTUITIVE EXPLANATIONS AND PRACTICAL EXAMPLES. YOU'LL EXPLORE CHALLENGING CONCEPTS AND PRACTICE WITH APPLICATIONS IN COMPUTER VISION, NATURAL-LANGUAGE PROCESSING, AND GENERATIVE MODELS. BY THE TIME YOU FINISH, YOU'LL HAVE THE KNOWLEDGE AND HANDS-ON SKILLS TO APPLY DEEP LEARNING IN YOUR OWN PROJECTS. WHAT'S INSIDE DEEP LEARNING FROM FIRST PRINCIPLES SETTING UP YOUR OWN DEEP-LEARNING ENVIRONMENT IMAGE-CLASSIFICATION MODELS DEEP LEARNING FOR TEXT AND SEQUENCES NEURAL STYLE TRANSFER, TEXT GENERATION, AND IMAGE GENERATION ABOUT THE READER READERS NEED INTERMEDIATE PYTHON SKILLS. NO PREVIOUS EXPERIENCE WITH KERAS, TENSORFLOW, OR MACHINE LEARNING IS REQUIRED. ABOUT THE AUTHOR FRANCOIS CHOLLET WORKS ON DEEP LEARNING AT GOOGLE IN MOUNTAIN VIEW, CA. HE IS THE CREATOR OF THE KERAS DEEP-LEARNING LIBRARY, AS WELL AS A CONTRIBUTOR TO THE TENSORFLOW MACHINE-LEARNING FRAMEWORK. HE ALSO DOES DEEP-LEARNING RESEARCH, WITH A FOCUS ON COMPUTER VISION AND THE APPLICATION OF MACHINE LEARNING TO FORMAL REASONING. HIS PAPERS HAVE BEEN PUBLISHED AT MAJOR CONFERENCES IN THE FIELD, INCLUDING THE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR), THE CONFERENCE AND WORKSHOP ON NEURAL INFORMATION PROCESSING SYSTEMS (NIPS), THE INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS (ICLR), AND OTHERS. TABLE OF CONTENTS PART 1 - FUNDAMENTALS OF DEEP LEARNING WHAT IS DEEP LEARNING? BEFORE WE BEGIN: THE MATHEMATICAL BUILDING BLOCKS OF NEURAL NETWORKS GETTING STARTED WITH NEURAL NETWORKS FUNDAMENTALS OF MACHINE LEARNING PART 2 - DEEP LEARNING IN PRACTICE DEEP LEARNING FOR COMPUTER VISION DEEP LEARNING FOR TEXT AND SEQUENCES ADVANCED DEEP-LEARNING BEST PRACTICES GENERATIVE DEEP LEARNING CONCLUSIONS APPENDIX A - INSTALLING KERAS AND ITS DEPENDENCIES ON UBUNTU APPENDIX B - RUNNING JUPYTER NOTEBOOKS ON AN EC2 GPU INSTANCE

2018 14TH INTERNATIONAL CONFERENCE ON SEMANTICS, KNOWLEDGE AND GRIDS (SKG) - IEEE STAFF 2018-09-12

SEMANTICS, KNOWLEDGE AND GRIDS

2020 IEEE ASIA PACIFIC CONFERENCE ON COMPUTER SCIENCE AND DATA ENGINEERING (CSDE) - IEEE STAFF 2020-12-16

THE CONFERENCE TITLE IS BELONGING 100 IN THE AREA OF IEEE COMPUTER SOCIETY THIS EVENT WOULD BE A WONDERFUL GATHERING BETWEEN IEEE MEMBERS IN THE AREA OF SOUTH PACIFIC, AUSTRALIA AND THE REST OF THE WORLD TO SHARE THE LATEST DEVELOPMENT IN THE AREA OF COMPUTER SCIENCE AND DATA ENGINEERING THE CONFERENCE WILL BE A FORUM FOR PARTICIPANTS TO DISCUSS STATE OF THE ART INNOVATIONS IN TECHNOLOGIES WHICH HAVE BEEN MADE AVAILABLE BY THE RESEARCHERS & IT PROFESSIONALS AND WILL FEATURE PLENARY AND PANEL SESSIONS AS WELL AS TECHNICAL PAPER PRESENTATIONS AND POSTER SESSIONS WORKSHOP BY INTERNATIONAL EXPERTS ON ICT AND DATA ENGINEERING APPLICATIONS WILL ALSO BE AVAILABLE THE CONFERENCE THEME FOR 2020 IS VISUALISE THE FUTURE THROUGH DATA CSDE 2020 IS ALSO AIMED TO PROMOTE DISCUSSION ABOUT THE PEDAGOGICAL POTENTIAL OF NEW SUSTAINABLE TECHNOLOGIES FOR THE DEVELOPING COUNTRIES

COGNITIVE INFORMATICS AND SOFT COMPUTING - PRADEEP KUMAR MALLICK 2022-05-30

THIS BOOK PRESENTS BEST SELECTED RESEARCH PAPERS PRESENTED AT THE 4TH INTERNATIONAL CONFERENCE ON COGNITIVE

INFORMATICS AND SOFT COMPUTING (CISC 2021), HELD AT BALASORE COLLEGE OF ENGINEERING & TECHNOLOGY, BALASORE, ODISHA, INDIA, FROM 21-22 AUGUST 2021. IT HIGHLIGHTS, IN PARTICULAR, INNOVATIVE RESEARCH IN THE FIELDS OF COGNITIVE INFORMATICS, COGNITIVE COMPUTING, COMPUTATIONAL INTELLIGENCE, ADVANCED COMPUTING, AND HYBRID INTELLIGENT MODELS AND APPLICATIONS. NEW ALGORITHMS AND METHODS IN A VARIETY OF FIELDS ARE PRESENTED, TOGETHER WITH SOLUTION-BASED APPROACHES. THE TOPICS ADDRESSED INCLUDE VARIOUS THEORETICAL ASPECTS AND APPLICATIONS OF COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, CYBERNETICS, AUTOMATION CONTROL THEORY, AND SOFTWARE ENGINEERING.

DISTRIBUTED COMPUTING AND INTELLIGENT TECHNOLOGY - RAJU BAPI 2022-01-18

THIS BOOK CONSTITUTES THE PROCEEDINGS OF THE 18TH INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING AND INTELLIGENT TECHNOLOGY, ICDCIT 2022, HELD IN BHUBANESWAR, INDIA, IN JANUARY 2022. THE 11 FULL PAPERS PRESENTED TOGETHER WITH 4 SHORT PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 50 SUBMISSIONS. THERE ARE ALSO 4 INVITED PAPERS INCLUDED. THE PAPERS WERE ORGANIZED IN TOPICAL SECTIONS NAMED: INVITED PAPERS, DISTRIBUTED COMPUTING AND INTELLIGENT TECHNOLOGY.

APPLIED INTELLIGENT DECISION MAKING IN MACHINE LEARNING - HIMANSU DAS 2020-11-18

THE OBJECTIVE OF THIS EDITED BOOK IS TO SHARE THE OUTCOMES FROM VARIOUS RESEARCH DOMAINS TO DEVELOP EFFICIENT, ADAPTIVE, AND INTELLIGENT MODELS TO HANDLE THE CHALLENGES RELATED TO DECISION MAKING. IT INCORPORATES THE ADVANCES IN MACHINE INTELLIGENT TECHNIQUES SUCH AS DATA STREAMING, CLASSIFICATION, CLUSTERING, PATTERN MATCHING, FEATURE SELECTION, AND DEEP LEARNING IN THE DECISION-MAKING PROCESS FOR SEVERAL DIVERSIFIED APPLICATIONS SUCH AS AGRICULTURE, CHARACTER RECOGNITION, LANDSLIDE SUSCEPTIBILITY, RECOMMENDATION SYSTEMS, FORECASTING AIR QUALITY, HEALTHCARE, EXCHANGE RATE PREDICTION, AND IMAGE DEHAZING. IT ALSO PROVIDES A PREMIER INTERDISCIPLINARY PLATFORM FOR SCIENTISTS, RESEARCHERS, PRACTITIONERS, AND EDUCATORS TO SHARE THEIR THOUGHTS IN THE CONTEXT OF RECENT INNOVATIONS, TRENDS, DEVELOPMENTS, PRACTICAL CHALLENGES, AND ADVANCEMENTS IN THE FIELD OF DATA MINING, MACHINE LEARNING, SOFT COMPUTING, AND DECISION SCIENCE. IT ALSO FOCUSES ON THE USEFULNESS OF APPLIED INTELLIGENT TECHNIQUES IN THE DECISION-MAKING PROCESS IN SEVERAL ASPECTS. TO ADDRESS THESE OBJECTIVES, THIS EDITED BOOK INCLUDES A DOZEN CHAPTERS CONTRIBUTED BY AUTHORS FROM AROUND THE GLOBE. THE AUTHORS ATTEMPT TO SOLVE THESE COMPLEX PROBLEMS USING SEVERAL INTELLIGENT MACHINE-LEARNING TECHNIQUES. THIS ALLOWS RESEARCHERS TO UNDERSTAND THE MECHANISM NEEDED TO HARNESS THE DECISION-MAKING PROCESS USING MACHINE-LEARNING TECHNIQUES FOR THEIR OWN RESPECTIVE ENDEAVORS.

10TH INTERNATIONAL CONFERENCE ON THEORY AND APPLICATION OF SOFT COMPUTING, COMPUTING WITH WORDS AND PERCEPTIONS - ICSCCW-2019 - RAFIK A. ALIEV 2019-11-19

THIS BOOK PRESENTS THE PROCEEDINGS OF THE 10TH CONFERENCE ON THEORY AND APPLICATIONS OF SOFT COMPUTING, COMPUTING WITH WORDS AND PERCEPTIONS, ICSCCW 2019, HELD IN PRAGUE, CZECH REPUBLIC, ON AUGUST 27-28, 2019. IT INCLUDES CONTRIBUTIONS FROM DIVERSE AREAS OF SOFT COMPUTING AND COMPUTING WITH WORDS, SUCH AS UNCERTAIN COMPUTATION, DECISION-MAKING UNDER IMPERFECT INFORMATION, NEURO-FUZZY APPROACHES, DEEP LEARNING, NATURAL LANGUAGE PROCESSING, AND OTHERS. THE TOPICS OF THE PAPERS INCLUDE THEORY AND APPLICATIONS OF SOFT COMPUTING, INFORMATION GRANULATION, COMPUTING WITH WORDS, COMPUTING WITH PERCEPTIONS, IMAGE PROCESSING WITH SOFT COMPUTING, PROBABILISTIC REASONING,

INTELLIGENT CONTROL, MACHINE LEARNING, FUZZY LOGIC IN DATA ANALYTICS AND DATA MINING, EVOLUTIONARY COMPUTING, CHAOTIC SYSTEMS, SOFT COMPUTING IN BUSINESS, ECONOMICS AND FINANCE, FUZZY LOGIC AND SOFT COMPUTING IN EARTH SCIENCES, FUZZY LOGIC AND SOFT COMPUTING IN ENGINEERING, FUZZY LOGIC AND SOFT COMPUTING IN MATERIAL SCIENCES, SOFT COMPUTING IN MEDICINE, BIOMEDICAL ENGINEERING, AND PHARMACEUTICAL SCIENCES. SHOWCASING NEW IDEAS IN THE FIELD OF THEORIES OF SOFT COMPUTING AND COMPUTING WITH WORDS AND THEIR APPLICATIONS IN ECONOMICS, BUSINESS, INDUSTRY, EDUCATION, MEDICINE, EARTH SCIENCES, AND OTHER FIELDS, IT PROMOTES THE DEVELOPMENT AND IMPLEMENTATION OF THESE PARADIGMS IN VARIOUS REAL-WORLD CONTEXTS. THIS BOOK IS A USEFUL GUIDE FOR ACADEMICS, PRACTITIONERS AND GRADUATES.

MACHINE LEARNING FOR ALGORITHMIC TRADING - STEFAN JANSEN 2020-07-31

LEVERAGE MACHINE LEARNING TO DESIGN AND BACK-TEST AUTOMATED TRADING STRATEGIES FOR REAL-WORLD MARKETS USING PANDAS, TA-LIB, SCIKIT-LEARN, LIGHTGBM, SPACY, GENSIM, TENSORFLOW 2, ZIPLINE, BACKTRADER, ALPHALENS, AND PYFOLIO. KEY FEATURES DESIGN, TRAIN, AND EVALUATE MACHINE LEARNING ALGORITHMS THAT UNDERPIN AUTOMATED TRADING STRATEGIES CREATE A RESEARCH AND STRATEGY DEVELOPMENT PROCESS TO APPLY PREDICTIVE MODELING TO TRADING DECISIONS LEVERAGE NLP AND DEEP LEARNING TO EXTRACT TRADEABLE SIGNALS FROM MARKET AND ALTERNATIVE DATA BOOK DESCRIPTION THE EXPLOSIVE GROWTH OF DIGITAL DATA HAS BOOSTED THE DEMAND FOR EXPERTISE IN TRADING STRATEGIES THAT USE MACHINE LEARNING (ML). THIS REVISED AND EXPANDED SECOND EDITION ENABLES YOU TO BUILD AND EVALUATE SOPHISTICATED SUPERVISED, UNSUPERVISED, AND REINFORCEMENT LEARNING MODELS. THIS BOOK INTRODUCES END-TO-END MACHINE LEARNING FOR THE TRADING WORKFLOW, FROM THE IDEA AND FEATURE ENGINEERING TO MODEL OPTIMIZATION, STRATEGY DESIGN, AND BACKTESTING. IT ILLUSTRATES THIS BY USING EXAMPLES RANGING FROM LINEAR MODELS AND TREE-BASED ENSEMBLES TO DEEP-LEARNING TECHNIQUES FROM CUTTING EDGE RESEARCH. THIS EDITION SHOWS HOW TO WORK WITH MARKET, FUNDAMENTAL, AND ALTERNATIVE DATA, SUCH AS TICK DATA, MINUTE AND DAILY BARS, SEC FILINGS, EARNINGS CALL TRANSCRIPTS, FINANCIAL NEWS, OR SATELLITE IMAGES TO GENERATE TRADEABLE SIGNALS. IT ILLUSTRATES HOW TO ENGINEER FINANCIAL FEATURES OR ALPHA FACTORS THAT ENABLE AN ML MODEL TO PREDICT RETURNS FROM PRICE DATA FOR US AND INTERNATIONAL STOCKS AND ETFs. IT ALSO SHOWS HOW TO ASSESS THE SIGNAL CONTENT OF NEW FEATURES USING ALPHALENS AND SHAP VALUES AND INCLUDES A NEW APPENDIX WITH OVER ONE HUNDRED ALPHA FACTOR EXAMPLES. BY THE END, YOU WILL BE PROFICIENT IN TRANSLATING ML MODEL PREDICTIONS INTO A TRADING STRATEGY THAT OPERATES AT DAILY OR INTRADAY HORIZONS, AND IN EVALUATING ITS PERFORMANCE. WHAT YOU WILL LEARN LEVERAGE MARKET, FUNDAMENTAL, AND ALTERNATIVE TEXT AND IMAGE DATA RESEARCH AND EVALUATE ALPHA FACTORS USING STATISTICS, ALPHALENS, AND SHAP VALUES IMPLEMENT MACHINE LEARNING TECHNIQUES TO SOLVE INVESTMENT AND TRADING PROBLEMS BACKTEST AND EVALUATE TRADING STRATEGIES BASED ON MACHINE LEARNING USING ZIPLINE AND BACKTRADER OPTIMIZE PORTFOLIO RISK AND PERFORMANCE ANALYSIS USING PANDAS, NUMPY, AND PYFOLIO CREATE A PAIRS TRADING STRATEGY BASED ON COINTEGRATION FOR US EQUITIES AND ETFs TRAIN A GRADIENT BOOSTING MODEL TO PREDICT INTRADAY RETURNS USING ALGOSEEK'S HIGH-QUALITY TRADES AND QUOTES DATA WHO THIS BOOK IS FOR IF YOU ARE A DATA ANALYST, DATA SCIENTIST, PYTHON DEVELOPER, INVESTMENT ANALYST, OR PORTFOLIO MANAGER INTERESTED IN GETTING HANDS-ON MACHINE LEARNING KNOWLEDGE FOR TRADING, THIS BOOK IS FOR YOU. THIS BOOK IS FOR YOU IF YOU WANT TO LEARN HOW TO EXTRACT VALUE FROM A DIVERSE SET OF DATA SOURCES USING MACHINE LEARNING TO DESIGN YOUR OWN SYSTEMATIC TRADING STRATEGIES. SOME UNDERSTANDING OF PYTHON AND MACHINE LEARNING TECHNIQUES IS REQUIRED.