

2020/07

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THE NEW NORMAL H CHATURVEDI 2021-03-10 WHEN THE COVID-19 PANDEMIC HIT, THE WORLD WAS CAUGHT UNPREPARED. WE HAD FACED SEVERAL DISRUPTIONS INCLUDING PANDEMIC BUT NOT AT THIS LEVEL. IT BROUGHT EVERYTHING TO A GRINDING HALT AS NATIONWIDE LOCKDOWNS WERE IMPOSED TO STOP THE SPREAD OF INFECTION. BUSINESSES STRUGGLED, AND THEN ROSE TO THE OCCASION TO MANAGE THEIR WORK BY REDEFINING THEIR BUSINESS STRUCTURE, WORK CULTURE AND STRATEGIES. THIS BOOK HAS A COLLECTION OF ARTICLES THAT ARE NOT JUST OPINIONS AND PROJECTIONS ABOUT FUTURE BUT PHENOMENON-BASED ARTICLES EXPLORED THROUGH THEORETICAL LENS AND ARE NOT JUST LIMITED TO BUSINESS AND ECONOMY BUT ECOLOGICAL CHANGES AS WELL. THE AUTHORS WHO HAVE SHARED THEIR KNOWLEDGE AND RESEARCH HAIL FROM BANGLADESH, NEW ZEALAND, PAKISTAN, SRI LANKA, UK, USA AND VIETNAM BESIDE INDIA. THE DIVERSE BACKGROUND OF AUTHORS THAT INCLUDE UNIVERSITY VICE CHANCELLORS, DIRECTORS, DISTINGUISHED PROFESSORS, AND SENIOR EXECUTIVES FROM THE INDUSTRY BRINGS THEIR UNIQUE PERSPECTIVE AND INSIGHTS IN THE ARTICLES. THE 27 ARTICLES IN THIS BOOK ARE DIVIDED IN 5 SECTIONS NAMEDLY HIGHER EDUCATION REBUILDING ITSELF, SURVIVING THE CRISIS, EVOLVING BUSINESS MODELS AND ORGANIZATIONAL STRATEGIES, WAY FORWARD FOR THE ECONOMY, IMPACT ON THE ECOSYSTEM AND SOCIETY. EACH ARTICLE DEMYSTIFIES THE MULTIDIMENSIONAL IMPACT THAT THE PANDEMIC HAS HAD ON THE PROFESSIONAL AND PERSONAL SPHERES OF THE HUMAN LIVES. WE HOPE THAT IT WILL SERVE AS TRUE COMPANION OF A RESEARCHER.

1038 2020/07/17 2020-07-16

PYTHON ALGORITHMIC TRADING COOKBOOK PUSHPAK DAGADE 2020-08-28 BUILD A SOLID FOUNDATION IN ALGORITHMIC TRADING BY DEVELOPING, TESTING AND EXECUTING POWERFUL TRADING STRATEGIES WITH REAL MARKET DATA USING PYTHON KEY FEATURES BUILD A STRONG FOUNDATION IN ALGORITHMIC TRADING BY BECOMING WELL-VERSED WITH THE BASICS OF FINANCIAL MARKETS DEMYSTIFY JARGON RELATED TO UNDERSTANDING AND PLACING MULTIPLE TYPES OF TRADING ORDERS DEVISE TRADING STRATEGIES AND

INCREASE YOUR ODDS OF MAKING A PROFIT WITHOUT HUMAN INTERVENTION
BOOK DESCRIPTION IF YOU WANT TO FIND OUT HOW YOU CAN BUILD A SOLID FOUNDATION IN ALGORITHMIC TRADING USING PYTHON, THIS COOKBOOK IS HERE TO HELP. STARTING BY SETTING UP THE PYTHON ENVIRONMENT FOR TRADING AND CONNECTIVITY WITH BROKERS, YOU'LL THEN LEARN THE IMPORTANT ASPECTS OF FINANCIAL MARKETS. AS YOU PROGRESS, YOU'LL LEARN TO FETCH FINANCIAL INSTRUMENTS, QUERY AND CALCULATE VARIOUS TYPES OF CANDLES AND HISTORICAL DATA, AND FINALLY, COMPUTE AND PLOT TECHNICAL INDICATORS. NEXT, YOU'LL LEARN HOW TO PLACE VARIOUS TYPES OF ORDERS, SUCH AS REGULAR, BRACKET, AND COVER ORDERS, AND UNDERSTAND THEIR STATE TRANSITIONS. LATER CHAPTERS WILL COVER BACKTESTING, PAPER TRADING, AND FINALLY REAL TRADING FOR THE ALGORITHMIC STRATEGIES THAT YOU'VE CREATED. YOU'LL EVEN UNDERSTAND HOW TO AUTOMATE TRADING AND FIND THE RIGHT STRATEGY FOR MAKING EFFECTIVE DECISIONS THAT WOULD OTHERWISE BE IMPOSSIBLE FOR HUMAN TRADERS. BY THE END OF THIS BOOK, YOU'LL BE ABLE TO USE PYTHON LIBRARIES TO CONDUCT KEY TASKS IN THE ALGORITHMIC TRADING ECOSYSTEM. NOTE: FOR DEMONSTRATION, WE'RE USING ZERODHA, AN INDIAN STOCK MARKET BROKER. IF YOU'RE NOT AN INDIAN RESIDENT, YOU WON'T BE ABLE TO USE ZERODHA AND THEREFORE WILL NOT BE ABLE TO TEST THE EXAMPLES DIRECTLY. HOWEVER, YOU CAN TAKE INSPIRATION FROM THE BOOK AND APPLY THE CONCEPTS ACROSS YOUR PREFERRED STOCK MARKET BROKER OF CHOICE. WHAT YOU WILL LEARN
USE PYTHON TO SET UP CONNECTIVITY WITH BROKERS HANDLE AND MANIPULATE TIME SERIES DATA USING PYTHON
FETCH A LIST OF EXCHANGES, SEGMENTS, FINANCIAL INSTRUMENTS, AND HISTORICAL DATA TO INTERACT WITH THE REAL MARKET UNDERSTAND, FETCH, AND CALCULATE VARIOUS TYPES OF CANDLES AND USE THEM TO COMPUTE AND PLOT DIVERSE TYPES OF TECHNICAL INDICATORS DEVELOP AND IMPROVE THE PERFORMANCE OF ALGORITHMIC TRADING STRATEGIES PERFORM BACKTESTING AND PAPER TRADING ON ALGORITHMIC TRADING STRATEGIES IMPLEMENT REAL TRADING IN THE LIVE HOURS OF STOCK MARKETS WHO THIS BOOK IS FOR IF YOU ARE A FINANCIAL ANALYST, FINANCIAL TRADER, DATA ANALYST, ALGORITHMIC TRADER, TRADING ENTHUSIAST OR ANYONE WHO WANTS TO LEARN ALGORITHMIC TRADING WITH PYTHON AND IMPORTANT TECHNIQUES TO ADDRESS CHALLENGES FACED IN THE FINANCE DOMAIN, THIS BOOK IS FOR YOU. BASIC WORKING KNOWLEDGE OF THE PYTHON PROGRAMMING LANGUAGE IS EXPECTED. ALTHOUGH

FUNDAMENTAL KNOWLEDGE OF TRADE-RELATED TERMINOLOGIES WILL BE HELPFUL, IT IS NOT MANDATORY.

OSWAAL CBSE QUESTION BANK CHAPTERWISE FOR TERM-2, CLASS 12, INFORMATICS PRACTICES (FOR 2022 EXAM) OSWAAL EDITORIAL BOARD 2022-01-05 STRICTLY AS PER THE TERM-II SYLLABUS FOR BOARD 2022 EXAMS(MARCH-APRIL) INCLUDES QUESTIONS OF THE BOTH - OBJECTIVE & SUBJECTIVE TYPES QUESTIONS OBJECTIVE QUESTIONS BASED ON NEW TYPOLOGIES INTRODUCED BY THE BOARD- STAND- ALONE MCQS, MCQS BASED ON ASSERTION-REASON CASE-BASED MCQS. SUBJECTIVE QUESTIONS INCLUDES-VERY SHORT, SHORT & LONG ANSWER TYPES QUESTIONS PREVIOUS YEARS' QUESTIONS WITH BOARD MARKING SCHEME ANSWERS REVISION NOTES FOR IN-DEPTH STUDY MODIFIED & EMPOWERED MIND MAPS & MNEMONICS FOR QUICK LEARNING CHAPTER WISE LEARNING OUTCOMES & ART INTEGRATION AS PER NEP INCLUDE QUESTIONS FROM CBSE OFFICIAL QUESTION BANK RELEASED IN APRIL 2021 UNIT WISE SELF -ASSESSMENT TESTS & PRACTICE PAPERS CONCEPT VIDEOS FOR BLENDED LEARNING (SCIENCE & MATHS ONLY)

ARTIFICIAL INTELLIGENCE IN FINANCE YVES HILPISCH 2020-10-14 THE WIDESPREAD ADOPTION OF AI AND MACHINE LEARNING IS REVOLUTIONIZING MANY INDUSTRIES TODAY. ONCE THESE TECHNOLOGIES ARE COMBINED WITH THE PROGRAMMATIC AVAILABILITY OF HISTORICAL AND REAL-TIME FINANCIAL DATA, THE FINANCIAL INDUSTRY WILL ALSO CHANGE FUNDAMENTALLY. WITH THIS PRACTICAL BOOK, YOU'LL LEARN HOW TO USE AI AND MACHINE LEARNING TO DISCOVER STATISTICAL INEFFICIENCIES IN FINANCIAL MARKETS AND EXPLOIT THEM THROUGH ALGORITHMIC TRADING. AUTHOR YVES HILPISCH SHOWS PRACTITIONERS, STUDENTS, AND ACADEMICS IN BOTH FINANCE AND DATA SCIENCE PRACTICAL WAYS TO APPLY MACHINE LEARNING AND DEEP LEARNING ALGORITHMS TO FINANCE. THANKS TO LOTS OF SELF-CONTAINED PYTHON EXAMPLES, YOU'LL BE ABLE TO REPLICATE ALL RESULTS AND FIGURES PRESENTED IN THE BOOK. IN FIVE PARTS, THIS GUIDE HELPS YOU: LEARN CENTRAL NOTIONS AND ALGORITHMS FROM AI, INCLUDING RECENT BREAKTHROUGHS ON THE WAY TO ARTIFICIAL GENERAL INTELLIGENCE (AGI) AND SUPERINTELLIGENCE (SI) UNDERSTAND WHY DATA-DRIVEN FINANCE, AI, AND MACHINE LEARNING WILL HAVE A LASTING IMPACT ON FINANCIAL THEORY AND PRACTICE APPLY NEURAL NETWORKS AND REINFORCEMENT LEARNING TO DISCOVER STATISTICAL INEFFICIENCIES IN FINANCIAL MARKETS IDENTIFY AND EXPLOIT ECONOMIC INEFFICIENCIES THROUGH BACKTESTING AND ALGORITHMIC TRADING--THE AUTOMATED EXECUTION OF TRADING STRATEGIES UNDERSTAND HOW AI WILL INFLUENCE THE COMPETITIVE DYNAMICS IN THE FINANCIAL INDUSTRY AND WHAT THE POTENTIAL EMERGENCE OF A FINANCIAL SINGULARITY MIGHT BRING ABOUT

MANSIONS OF THE MOON: A LUNAR ZODIAC FOR ASTROLOGY AND MAGIC 2ND EDITION WITH 2019-2033 MANSION EPHEMERIS CHRISTOPHER WARNOCK

DEEP LEARNING, MACHINE LEARNING AND IoT IN BIOMEDICAL AND HEALTH INFORMATICS SUJATA DASH 2022-02-11 BIOMEDICAL AND HEALTH INFORMATICS IS AN IMPORTANT FIELD THAT BRINGS TREMENDOUS OPPORTUNITIES AND HELPS

ADDRESS CHALLENGES DUE TO AN ABUNDANCE OF AVAILABLE BIOMEDICAL DATA. THIS BOOK EXAMINES AND DEMONSTRATES STATE-OF-THE-ART APPROACHES FOR IoT AND MACHINE LEARNING BASED BIOMEDICAL AND HEALTH RELATED APPLICATIONS. THIS BOOK AIMS TO PROVIDE COMPUTATIONAL METHODS FOR ACCUMULATING, UPDATING AND CHANGING KNOWLEDGE IN INTELLIGENT SYSTEMS AND PARTICULARLY LEARNING MECHANISMS THAT HELP US TO INDUCE KNOWLEDGE FROM THE DATA. IT IS HELPFUL IN CASES WHERE DIRECT ALGORITHMIC SOLUTIONS ARE UNAVAILABLE, THERE IS LACK OF FORMAL MODELS, OR THE KNOWLEDGE ABOUT THE APPLICATION DOMAIN IS INADEQUATELY DEFINED. IN THE FUTURE IoT HAS THE IMPENDING CAPABILITY TO CHANGE THE WAY WE WORK AND LIVE. THESE COMPUTING METHODS ALSO PLAY A SIGNIFICANT ROLE IN DESIGN AND OPTIMIZATION IN DIVERSE ENGINEERING DISCIPLINES. WITH THE INFLUENCE AND THE DEVELOPMENT OF THE IoT CONCEPT, THE NEED FOR AI (ARTIFICIAL INTELLIGENCE) TECHNIQUES HAS BECOME MORE SIGNIFICANT THAN EVER. THE AIM OF THESE TECHNIQUES IS TO ACCEPT IMPRECISION, UNCERTAINTIES AND APPROXIMATIONS TO GET A RAPID SOLUTION. HOWEVER, RECENT ADVANCEMENTS IN REPRESENTATION OF INTELLIGENT IoT SYSTEMS GENERATE A MORE INTELLIGENT AND ROBUST SYSTEM PROVIDING A HUMAN INTERPRETABLE, LOW-COST, AND APPROXIMATE SOLUTION. INTELLIGENT IoT SYSTEMS HAVE DEMONSTRATED GREAT PERFORMANCE TO A VARIETY OF AREAS INCLUDING BIG DATA ANALYTICS, TIME SERIES, BIOMEDICAL AND HEALTH INFORMATICS. THIS BOOK WILL BE VERY BENEFICIAL FOR THE NEW RESEARCHERS AND PRACTITIONERS WORKING IN THE BIOMEDICAL AND HEALTHCARE FIELDS TO QUICKLY KNOW THE BEST PERFORMING METHODS. IT WILL ALSO BE SUITABLE FOR A WIDE RANGE OF READERS WHO MAY NOT BE SCIENTISTS BUT WHO ARE ALSO INTERESTED IN THE PRACTICE OF SUCH AREAS AS MEDICAL IMAGE RETRIEVAL, BRAIN IMAGE SEGMENTATION, AMONG OTHERS. • DISCUSSES DEEP LEARNING, IoT, MACHINE LEARNING, AND BIOMEDICAL DATA ANALYSIS WITH BROAD COVERAGE OF BASIC SCIENTIFIC APPLICATIONS • PRESENTS DEEP LEARNING AND THE TREMENDOUS IMPROVEMENT IN ACCURACY, ROBUSTNESS, AND CROSS- LANGUAGE GENERALIZABILITY IT HAS OVER CONVENTIONAL APPROACHES • DISCUSSES VARIOUS TECHNIQUES OF IoT SYSTEMS FOR HEALTHCARE DATA ANALYTICS • PROVIDES STATE-OF-THE-ART METHODS OF DEEP LEARNING, MACHINE LEARNING AND IoT IN BIOMEDICAL AND HEALTH INFORMATICS • FOCUSES MORE ON THE APPLICATION OF ALGORITHMS IN VARIOUS REAL LIFE BIOMEDICAL AND ENGINEERING PROBLEMS

PANDAS IN ACTION BORIS PASKHAVER 2021-10-12 TAKE THE NEXT STEPS IN YOUR DATA SCIENCE CAREER! THIS FRIENDLY AND HANDS-ON GUIDE SHOWS YOU HOW TO START MASTERING PANDAS WITH SKILLS YOU ALREADY KNOW FROM SPREADSHEET SOFTWARE. IN PANDAS IN ACTION YOU WILL LEARN HOW TO: IMPORT DATASETS, IDENTIFY ISSUES WITH THEIR DATA STRUCTURES, AND OPTIMIZE THEM FOR EFFICIENCY SORT, FILTER, PIVOT, AND DRAW CONCLUSIONS FROM A DATASET AND ITS SUBSETS IDENTIFY TRENDS FROM TEXT-BASED AND TIME-BASED DATA ORGANIZE, GROUP, MERGE, AND JOIN SEPARATE DATASETS USE A GROUPBY OBJECT TO STORE MULTIPLE DATAFRAMES PANDAS HAS RAPIDLY BECOME

ONE OF PYTHON'S MOST POPULAR DATA ANALYSIS LIBRARIES. IN PANDAS IN ACTION, A FRIENDLY AND EXAMPLE-RICH INTRODUCTION, AUTHOR BORIS PASKHAVER SHOWS YOU HOW TO MASTER THIS VERSATILE TOOL AND TAKE THE NEXT STEPS IN YOUR DATA SCIENCE CAREER. YOU'LL LEARN HOW EASY PANDAS MAKES IT TO EFFICIENTLY SORT, ANALYZE, FILTER AND MUNGE ALMOST ANY TYPE OF DATA. PURCHASE OF THE PRINT BOOK INCLUDES A FREE eBook IN PDF, KINDLE, AND EPUB FORMATS FROM MANNING PUBLICATIONS. ABOUT THE TECHNOLOGY DATA ANALYSIS WITH PYTHON DOESN'T HAVE TO BE HARD. IF YOU CAN USE A SPREADSHEET, YOU CAN LEARN PANDAS! WHILE ITS GRID-STYLE LAYOUTS MAY REMIND YOU OF EXCEL, PANDAS IS FAR MORE FLEXIBLE AND POWERFUL. THIS PYTHON LIBRARY QUICKLY PERFORMS OPERATIONS ON MILLIONS OF ROWS, AND IT INTERFACES EASILY WITH OTHER TOOLS IN THE PYTHON DATA ECOSYSTEM. IT'S A PERFECT WAY TO UP YOUR DATA GAME. ABOUT THE BOOK PANDAS IN ACTION INTRODUCES PYTHON-BASED DATA ANALYSIS USING THE AMAZING PANDAS LIBRARY. YOU'LL LEARN TO AUTOMATE REPETITIVE OPERATIONS AND GAIN DEEPER INSIGHTS INTO YOUR DATA THAT WOULD BE IMPRACTICAL—OR IMPOSSIBLE—IN EXCEL. EACH CHAPTER IS A SELF-CONTAINED TUTORIAL. REALISTIC DOWNLOADABLE DATASETS HELP YOU LEARN FROM THE KIND OF MESSY DATA YOU'LL FIND IN THE REAL WORLD. WHAT'S INSIDE ORGANIZE, GROUP, MERGE, SPLIT, AND JOIN DATASETS FIND TRENDS IN TEXT-BASED AND TIME-BASED DATA SORT, FILTER, PIVOT, OPTIMIZE, AND DRAW CONCLUSIONS APPLY AGGREGATE OPERATIONS ABOUT THE READER FOR READERS EXPERIENCED WITH SPREADSHEETS AND BASIC PYTHON PROGRAMMING. ABOUT THE AUTHOR BORIS PASKHAVER IS A SOFTWARE ENGINEER, AGILE CONSULTANT, AND ONLINE EDUCATOR. HIS PROGRAMMING COURSES HAVE BEEN TAKEN BY 300,000 STUDENTS ACROSS 190 COUNTRIES. TABLE OF CONTENTS PART 1 CORE PANDAS 1 INTRODUCING PANDAS 2 THE SERIES OBJECT 3 SERIES METHODS 4 THE DataFrame OBJECT 5 FILTERING A DataFrame PART 2 APPLIED PANDAS 6 WORKING WITH TEXT DATA 7 MULTIINDEX DataFrames 8 RESHAPING AND PIVOTING 9 THE GROUPBY OBJECT 10 MERGING, JOINING, AND CONCATENATING 11 WORKING WITH DATES AND TIMES 12 IMPORTS AND EXPORTS 13 CONFIGURING PANDAS 14 VISUALIZATION

FOUNDATIONS OF HEALTH INFORMATION MANAGEMENT - E-BOOK

NADINIA DAVIS 2019-10-23 FOUNDATIONS OF HEALTH INFORMATION MANAGEMENT, 5TH EDITION IS AN ABSOLUTE MUST FOR ANY STUDENT BEGINNING A CAREER IN HIM. BY FOCUSING ON HEALTHCARE DELIVERY SYSTEMS, ELECTRONIC HEALTH RECORDS, AND THE PROCESSING, MAINTENANCE, AND ANALYSIS OF HEALTH INFORMATION, THIS ENGAGING, EASY-TO-UNDERSTAND TEXT PRESENTS A REALISTIC AND PRACTICAL VIEW OF TECHNOLOGY AND TRENDS IN HEALTHCARE. IT READIES YOU FOR THE ROLE OF A REGISTERED HEALTH INFORMATION TECHNICIAN, WHO NOT ONLY MAINTAINS AND SECURES ACCURATE HEALTH DOCUMENTATION, BUT SERVES AS A HEALTHCARE ANALYST WHO TRANSLATES DATA INTO USEFUL, QUALITY INFORMATION THAT CAN CONTROL COSTS AND FURTHER RESEARCH. THE FIFTH EDITION FOLLOWS THE CAHIIM 2018 HIM ASSOCIATE DEGREE CURRICULUM COMPETENCIES,

PREPARING YOU FOR THE RHIT CREDENTIALING EXAM. EHR SAMPLES, PRACTICE EXERCISES, AND NEW BLOOM'S-LEVEL COMPETENCY MILESTONE FEATURES HELP ENSURE MASTERY OF ALL COMPETENCIES. CLEAR WRITING STYLE AND EASY READING LEVEL MAKE READING AND STUDYING MORE TIME-EFFICIENT, AND ARE IDEAL FOR 2-YEAR ASSOCIATE DEGREE HIM PROGRAMS AND CAREER SCHOOLS. CHAPTER LEARNING OBJECTIVES ARE TIED TO THE CAHIIM CURRICULUM COMPETENCIES TO ALLOW INSTRUCTORS TO TEACH TO THE TEST ? AND PREPARE YOU FOR SUCCESS ON THE CREDENTIALING EXAM. PROFESSIONAL PROFILE BOXES HIGHLIGHT KEY HIM PROFESSIONALS WITHIN CHAPTER DISCUSSIONS. SIMCHART AND SIMCHART FOR THE MEDICAL OFFICE EHR SAMPLES DEMONSTRATE ELECTRONIC MEDICAL RECORDS IN USE. CAREER TIP BOXES INSTRUCT YOU ON A COURSE OF STUDY AND WORK EXPERIENCE REQUIRED FOR THE POSITION. CHAPTER SUMMARIES AND REVIEWS ALLOW FOR EASY REVIEW OF EACH CHAPTER'S MAIN CONCEPTS. FULL-COLOR DESIGN AND ILLUSTRATIONS MAKE CONTENT MORE APPEALING AND EASIER TO LEARN. COMPETENCY CHECK-IN EXERCISES AT THE END OF EVERY MAIN SECTION IN EACH CHAPTER ENCOURAGE YOU TO REVIEW AND APPLY KEY CONCEPTS. UPDATED! CONTENT ORGANIZED TO FOLLOW CAHIIM 2018 HIM ASSOCIATE DEGREE CURRICULUM COMPETENCIES, ALLOWING YOU TO STUDY CONTENT THAT MATCHES YOUR CREDENTIALING EXAM. NEW! UPDATED MATERIAL FULLY ADDRESSES THE NEWEST CURRICULUM COMPETENCIES WITH THE MOST CONTEMPORARY PICTURE OF THE HEALTH CARE LANDSCAPE AND JOB MARKET. NEW! CARDINAL FOCUS ON ELECTRONIC HEALTH RECORD PROCESSES IN BOTH AMBULATORY AND ACUTE CARE SETTINGS WITH NEW SCREENS AND IMAGES. UPDATED! REVISED STATISTICS AND DATA ANALYTICS CHAPTER REINFORCES THE ROLE OF THE HIM PROFESSIONAL AS A DATA ANALYST, AND INCLUDES INTRODUCTORY MATERIAL ON RESEARCH METHODOLOGIES. NEW! RHIT REVIEW QUESTION ENGINE WITH CUSTOM EXAM AND TIMER FUNCTIONALITIES SO YOU CAN STUDY FOR THE RHIT EXAM BY CATEGORY, OR CREATE TIMED MOCK EXAMS. EXPANDED! ADDITIONAL APPLICATION EXERCISES OFFER MORE OPPORTUNITIES TO STRENGTHEN YOUR UNDERSTANDING. UNIQUE! NEW BLOOM'S-LEVEL COMPETENCY MILESTONE FEATURES ASSURE INSTRUCTORS OF YOUR MASTERY OF ALL COMPETENCIES. NEW AND UPDATED! EXPANDED CODING AND REIMBURSEMENT CONTENT WITH HANDS-ON EXERCISES. NEW! ETHICS CHALLENGE AND CRITICAL THINKING EXERCISES ASSESS YOUR LEARNING. EXPANDED! ADDITIONAL PHOTOS AND IMAGES VISUALLY DEMONSTRATE HIM CONCEPTS AND REAL-LIFE SCENARIOS.

PROCESS MINING WORKSHOPS SANDER LEEMANS 2021-03-30 THIS BOOK CONSTITUTES REVISED SELECTED PAPERS FROM THE INTERNATIONAL WORKSHOPS HELD AT THE SECOND INTERNATIONAL CONFERENCE ON PROCESS MINING, ICPM 2020, WHICH TOOK PLACE DURING OCTOBER 4-9, 2020. THE CONFERENCE WAS PLANNED TO TAKE PLACE IN PADUA, ITALY, BUT HAD TO BE HELD ONLINE DUE TO THE COVID-19 PANDEMIC. THE CONFERENCE FOCUSES ON THE AREA OF PROCESS MINING RESEARCH AND PRACTICE, INCLUDING THEORY, ALGORITHMIC CHALLENGES, AND APPLICATIONS. THE CO-LOCATED WORKSHOPS PROVIDED A FORUM FOR NOVEL RESEARCH IDEAS. THE 29 PAPERS INCLUDED IN THIS VOLUME

OFF WITH OUTRAGE AND GRADUATED TO RIGHTEOUS INDIGNATION IS A MUST-HAVE FOR THOSE WHO ENJOY HISTORY, POLITICS, AND GOVERNMENT OR SIMPLY WANT TO READ ABOUT THE MOST NOTORIOUS PRESIDENCY IN HISTORY.

CONTRIBUTIONS TO ON-BOARD NAVIGATION ON 1U

CUBESATS Weißenberg, Sascha 2022-04-07 THIS THESIS INVESTIGATES THE USE OF GNSS RECEIVERS ON 1U CUBESATS, USING THE EXAMPLE OF BEESAT-4 AND BEESAT-9. THE INTEGRATION OF SUCH A DEVICE ON SATELLITES ENABLES HIGHLY PRECISE TIME SYNCHRONIZATION, POSITION ACQUISITION AND ORBIT DETERMINATION AND PREDICTION THE APPLICATION FIELDS THAT DEPEND ON AN ACCURATE ATTITUDE CONTROL AND ORBIT DETERMINATION SYSTEM AND CAN ALSO BE PROCESSED BY CUBESATS ARE HIGHLIGHTED. THEREFORE THE STATE OF THE ART OF GNSS RECEIVERS IS DESCRIBED, WHICH ARE SUITABLE FOR THE USE ON SATELLITES AND COULD BE INTEGRATED INTO 1U CUBESATS. FURTHER ON IT IS INVESTIGATED WHICH SUBSYSTEMS OF A SMALL SATELLITE ARE PARTICULARLY AFFECTED AND WHAT THE SPECIAL CHALLENGES ARE TO REALIZE A PRECISE POSITIONING WITH A GNSS RECEIVER. IN ADDITION, SOME DEVELOPMENTS ARE PRESENTED THAT HAVE SIGNIFICANTLY INCREASED THE PERFORMANCE OF 1U CUBESATS IN RECENT YEARS. THE SYSTEM CONCEPT OF BEESAT SATELLITES IS INTRODUCED AND THE EVOLUTION OF THE PAYLOAD BOARD INCLUDING THE USE OF THE LATEST SENSOR TECHNOLOGIES FOR ATTITUDE CONTROL IS DESCRIBED. IT IS SHOWN HOW THE VERIFICATION OF THE SATELLITE'S SUBSYSTEMS WAS PERFORMED ON THE GROUND, WITH THE FOCUS ON TESTING AND SIMULATING THE ATTITUDE CONTROL AND THE GNSS RECEIVER. THE NECESSARY INTEGRATION STEPS, THE CALIBRATION AND ENVIRONMENTAL TEST CAMPAIGN ARE DISCUSSED. BOTH SATELLITES WERE SUCCESSFULLY OPERATED AND THE RESULTS OF THE ON-ORBIT EXPERIMENTS ARE PRESENTED. IT IS SHOWN HOW A THREE-AXIS STABILIZED ATTITUDE CONTROL WAS FIRST VERIFIED ON BEESAT-4 AND THEN A GNSS RECEIVER WAS SUCCESSFULLY OPERATED ON BEESAT-9 FOR MORE THAN ONE YEAR. IN ADDITION, THE INTER-SATELLITE LINK BETWEEN BEESAT-4 AND BIROS WILL BE ANALYZED, SINCE IT IS ESSENTIAL FOR THE RELATIVE NAVIGATION OF SATELLITES. THE ACQUIRED NAVIGATION DATA WAS SENT TO THE GROUND AND THE IDENTIFICATION OF BEESAT-9 WAS CARRIED OUT USING THIS DATA. A QUALITATIVE ANALYSIS OF THE ORBITAL ELEMENTS (TLE) OF BEESAT-9 WAS PERFORMED SYSTEMATICALLY DUE TO A DAILY OPERATION OF THE GNSS RECEIVER. FURTHERMORE, IT WAS INVESTIGATED HOW A SMALL GNSS ANTENNA AFFECTS THE RECEIVED SIGNAL STRENGTH FROM GNSS SATELLITES AND WHETHER THIS ANTENNA OR ITS AMPLIFIER DEGRADES OVER TIME. ADDITIONALLY, AN ORBIT DETERMINATION AND PROPAGATION BASED ON THE NAVIGATION DATA COULD BE PERFORMED AND THE RESULTS ARE EVALUATED. THE ANALYZED QUESTIONS ALLOW A STATEMENT ABOUT THE CONTINUOUS USE OF GNSS RECEIVERS ON 1U CUBESATS AND IF IT IS NECESSARY TO ACHIEVE THE MISSION OBJECTIVES. DIESE ARBEIT UNTERSUCHT DEN EINSATZ VON GNSS-EMPFÄNGERN AUF 1U CUBESATS AM BEISPIEL VON BEESAT-4 UND BEESAT-9.

DAS INTEGRIEREN EINER SOLCHEN KOMPONENTE AUF SATELLITEN ERMOGLICHT EINE HOCHGENAUE ZEITSYNCHRONISATION, POSITIONS- UND ORBITBESTIMMUNG SOWIE DEREN VORHERSAGE ES WERDEN DIE ANWENDUNGSFELDER BELEUCHTET, DIE AUF EIN AKKURATES LAGEREGLUNGS- UND ORBITBESTIMMUNGSSYSTEM ANGEWIESEN SIND UND AUßERDEM AUCH VON CUBESATS BEARBEITET WERDEN KÖNNEN. DAZU WIRD DER STAND DER TECHNIK VON GNSS-EMPFÄNGERN BESCHRIEBEN, DIE FÜR DEN EINSATZ AUF SATELLITEN GEEIGNET SIND UND VON IHREN EIGENSCHAFTEN AUCH AUF 1U CUBESATS INTEGRIERT WERDEN KÖNNEN. WEITERGEHEND WIRD UNTERSUCHT, WELCHE SUBSYSTEME EINES KLEINSTSATELLITEN BESONDERS BETROFFEN SIND UND WAS DIE SPEZIELLEN HERAUSFORDERUNGEN SIND, UM EINE PRÄZISE POSITIONSBESTIMMUNG MITHILFE EINES GNSS-EMPFÄNGERS ZU REALISIEREN. DAZU WERDEN AUCH EINIGE ENTWICKLUNGEN VORGESTELLT, DIE IN DEN LETZTEN JAHREN DIE LEISTUNGSFÄHIGKEIT VON 1U CUBESATS SIGNIFIKANT ERHÖHT HABEN. DAS SYSTEMKONZEPT DER BEESAT SATELLITEN WIRD EINGEFÜHRT UND DIE EVOLUTION DER NUTZLASTPLATINE INKLUSIVE DER VERWENDUNG DER JEWELNS NEUESTEN SENSORTECHNOLOGIEN FÜR DIE LAGEREGLUNG BESCHRIEBEN. ES WIRD GEZEIGT WIE DIE VERIFIKATION DER SUBSYSTEME DES SATELLITEN AM BODEN ERFOLGTE, WOBEI DER FOKUS AUF DEM TESTEN UND SIMULIEREN DER LAGEREGLUNG UND DEM GNSS-EMPFÄNGER LIEGT. DAZU WERDEN DIE NOTWENDIGEN INTEGRATIONSSCHRITTE, DIE KALIBRATIONS- UND DIE UMWELTTSTKAMPAGNE DISKUTIERT. BEIDE SATELLITEN WURDEN ERFOLGREICH BETRIEBEN UND DIE ERGEBNISSE DER ON-ORBIT EXPERIMENTE WERDEN VORGESTELLT. ES WIRD GEZEIGT WIE ZUNÄCHST EINE DREIACHSENSTABILISIERTE LAGEREGLUNG AUF BEESAT-4 VERIFIZIERT UND ANSCHLIEßEND AUF BEESAT-9 ÜBER MEHR ALS EIN JAHR EIN GNSS-EMPFÄNGER ERFOLGREICH BETRIEBEN WURDE. ZUSÄTZLICH WIRD DER INTERSATELLITEN LINK ZWISCHEN BEESAT-4 UND BIROS ANALYSIERT, DA DIESER FÜR DIE RELATIVNAVIGATION VON SATELLITEN ESSENTIELL IST. DIE AKQUIRIERTEN NAVIGATIONS DATEN WURDEN ZUM BODEN GESENDET UND DIE IDENTIFIZIERUNG VON BEESAT-9 ERFOLGTE MITHILFE DIESER DATEN. EINE QUALITATIVE ANALYSE DER ORBITELEMENTE (TLE) VON BEESAT-9 KONNTE SYSTEMATISCH DURCHFÜHRT WERDEN DURCH EINEN TYPISCHEN EINSATZ DES GNSS-EMPFÄNGERS. WEITERHIN WURDE ERFORSCHT WIE SICH EINE KLEINE GNSS-ANTENNE AUF DIE EMPFANGENEN SIGNALSTÄRKEN DER GNSS SATELLITEN AUSWIRKT UND OB DIESE ANTENNE ODER IHR VERSTÄRKER MIT DER ZEIT DEGRADIEREN. ZUSÄTZLICH KONNTE EINE ORBITBESTIMMUNG UND -PROPAGATION AUF BASIS DER NAVIGATIONS DATEN DURCHFÜHRT WERDEN UND DIE ERGEBNISSE AUSGEWERTET WERDEN. DIE ANALYSIERTEN FRAGESTELLUNGEN ERLAUBEN EINE AUSSAGE ÜBER DEN DURCHGEFÜHRTE EINSATZ VON GNSS-EMPFÄNGERN AUF 1U CUBESATS UND OB DIESER NOTWENDIG IST UM DIE MISSIONSZIELE ZU ERREICHEN.

ADVANCED INTELLIGENT PREDICTIVE MODELS FOR URBAN TRANSPORTATION R SATHIYARAJ 2022-03-28 THE BOOK EMPHASIZES THE PREDICTIVE MODELS OF BIG DATA, GENETIC ALGORITHM, AND IoT WITH A CASE STUDY. THE BOOK ILLUSTRATES THE PREDICTIVE MODELS WITH INTEGRATED FUEL CONSUMPTION MODELS FOR SMART AND SAFE TRAVELING. THE

TEXT IS A COORDINATED AMALGAMATION OF RESEARCH CONTRIBUTIONS AND INDUSTRIAL APPLICATIONS IN THE FIELD OF INTELLIGENT TRANSPORTATION SYSTEMS. THE ADVANCED PREDICTIVE MODELS AND RESEARCH RESULTS WERE ACHIEVED WITH THE CASE STUDIES, DEPLOYED IN REAL TRANSPORTATION ENVIRONMENTS. FEATURES: PROVIDES A SMART TRAFFIC CONGESTION AVOIDANCE SYSTEM WITH AN INTEGRATED FUEL CONSUMPTION MODEL. PREDICTS TRAFFIC IN SHORT-TERM AND REGULAR. THIS IS ILLUSTRATED WITH A CASE STUDY. EFFICIENT TRAFFIC LIGHT CONTROLLER AND DEVIATION SYSTEM IN ACCORDANCE WITH THE TRAFFIC SCENARIO. IoT BASED INTELLIGENT TRANSPORT SYSTEMS IN A GLOBAL PERSPECTIVE. INTELLIGENT TRAFFIC LIGHT CONTROL SYSTEM AND AMBULANCE CONTROL SYSTEM. PROVIDES A PREDICTIVE FRAMEWORK THAT CAN HANDLE THE TRAFFIC ON ABNORMAL DAYS, SUCH AS WEEKENDS, FESTIVAL HOLIDAYS. BUNCH OF SOLUTIONS AND IDEAS FOR SMART TRAFFIC DEVELOPMENT IN SMART CITIES. THIS BOOK FOCUSES ON ADVANCED PREDICTIVE MODELS ALONG WITH OFFERING AN EFFICIENT SOLUTION FOR SMART TRAFFIC MANAGEMENT SYSTEM. THIS BOOK WILL GIVE A BRIEF IDEA OF THE AVAILABLE ALGORITHMS/TECHNIQUES OF BIG DATA, IoT, AND GENETIC ALGORITHM AND GUIDES IN DEVELOPING A SOLUTION FOR SMART CITY APPLICATIONS. THIS BOOK WILL BE A COMPLETE FRAMEWORK FOR ITS DOMAIN WITH THE ADVANCED CONCEPTS OF BIG DATA ANALYTICS, GENETIC ALGORITHM AND IoT. THIS BOOK IS PRIMARILY AIMED AT IT PROFESSIONALS. UNDERGRADUATES, GRADUATES AND RESEARCHERS IN THE AREA OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY WILL ALSO FIND THIS BOOK USEFUL.

ICASISSET 2020 MAHALINGAM SUNDHARARAJAN
2021-01-27 WE ARE DELIGHTED TO INTRODUCE THE PROCEEDINGS OF THE FIRST EDITION OF THE 2020 EUROPEAN ALLIANCE FOR INNOVATION (EAI) INTERNATIONAL CONFERENCE ON ADVANCED SCIENTIFIC INNOVATION IN SCIENCE, ENGINEERING AND TECHNOLOGY. THIS CONFERENCE HAS BROUGHT INNOVATIVE ACADEMICS, INDUSTRIAL EXPERTS RESEARCHERS, DEVELOPERS AND PRACTITIONERS AROUND THE WORLD IN THE FIELD OF SCIENCE, ENGINEERING AND TECHNOLOGY TO A COMMON FORUM. THE TECHNICAL PROGRAM OF ICASISSET 2020 CONSISTED OF 97 FULL PAPERS, INCLUDING 6 INVITED PAPERS IN ORAL PRESENTATION SESSIONS AT THE MAIN CONFERENCE TRACKS. THE CONFERENCE TRACKS WERE: INNOVATIVE COMPUTING, ADVANCED INNOVATION TECHNOLOGY IN COMMUNICATION, INDUSTRY AUTOMATION, HYDROGEN HYBRID MACHINE, COMPUTING IN MEDICAL APPLICATIONS, IMAGE PROCESSING AND INTERNET OF THINGS (IoT) AND APPLICATION. ASIDE FROM THE HIGH-QUALITY TECHNICAL PAPER PRESENTATIONS, THE TECHNICAL PROGRAM ALSO FEATURED TWO KEYNOTE SPEECHES, ONE INVITED TALK AND TWO TECHNICAL WORKSHOPS. THE TWO KEYNOTE SPEECHES WERE DR. HOSHANG KOLIVAND, SENIOR LECTURER, LIVERPOOL JOHN MOORES UNIVERSITY, UNITED KINGDOM AND DR. SHELDON WILLIAMSON FROM CANADA RESEARCH CHAIR IN ELECTRIC ENERGY STORAGE SYSTEMS FOR TRANSPORTATION ELECTRIFICATION AND PROFESSOR IN THE DEPARTMENT OF ELECTRICAL, COMPUTER AND SOFTWARE ENGINEERING, ONTARIO TECH UNIVERSITY. THE TWO

WORKSHOPS ORGANIZED WERE IN THE TOPICS OF MACHINE LEARNING AND INDUSTRIAL APPLICATIONS. THE WORKSHOP AIMED TO GAIN INSIGHTS INTO KEY CHALLENGES, UNDERSTANDING AND DESIGN CRITERIA OF EMPLOYING RECENT TECHNOLOGIES TO DEVELOP AND IMPLEMENT COMPUTATIONAL TECHNIQUES AND APPLICATIONS.

DATA SCIENCE FOR COVID-19 VOLUME 1 UTKU KOSE
2021-05-20 DATA SCIENCE FOR COVID-19 PRESENTS LEADING-EDGE RESEARCH ON DATA SCIENCE TECHNIQUES FOR THE DETECTION, MITIGATION, TREATMENT AND ELIMINATION OF COVID-19. SECTIONS PROVIDE AN INTRODUCTION TO DATA SCIENCE FOR COVID-19 RESEARCH, CONSIDERING PAST AND FUTURE PANDEMICS, AS WELL AS RELATED CORONAVIRUS VARIATIONS. OTHER CHAPTERS COVER A WIDE RANGE OF DATA SCIENCE APPLICATIONS CONCERNING COVID-19 RESEARCH, INCLUDING IMAGE ANALYSIS AND DATA PROCESSING, GEOPROCESSING AND TRACKING, PREDICTIVE SYSTEMS, DESIGN COGNITION, MOBILE TECHNOLOGY, AND TELEMEDICINE SOLUTIONS. THE BOOK THEN COVERS ARTIFICIAL INTELLIGENCE-BASED SOLUTIONS, INNOVATIVE TREATMENT METHODS, AND PUBLIC SAFETY. FINALLY, READERS WILL LEARN ABOUT APPLICATIONS OF BIG DATA AND NEW DATA MODELS FOR MITIGATION. PROVIDES A LEADING-EDGE SURVEY OF DATA SCIENCE TECHNIQUES AND METHODS FOR RESEARCH, MITIGATION AND TREATMENT OF THE COVID-19 VIRUS INTEGRATES VARIOUS DATA SCIENCE TECHNIQUES TO PROVIDE A RESOURCE FOR COVID-19 RESEARCHERS AND CLINICIANS AROUND THE WORLD, INCLUDING BOTH POSITIVE AND NEGATIVE RESEARCH FINDINGS PROVIDES INSIGHTS INTO INNOVATIVE DATA-ORIENTED MODELING AND PREDICTIVE TECHNIQUES FROM COVID-19 RESEARCHERS INCLUDES REAL-WORLD FEEDBACK AND USER EXPERIENCES FROM PHYSICIANS AND MEDICAL STAFF FROM AROUND THE WORLD ON THE EFFECTIVENESS OF APPLIED DATA SCIENCE SOLUTIONS

COMPUTATIONAL INTELLIGENCE AND HEALTHCARE INFORMATICS OM PRAKASH JENA 2021-09-08
COMPUTATIONAL INTELLIGENCE AND HEALTHCARE INFORMATICS THE BOOK PROVIDES THE STATE-OF-THE-ART INNOVATION, RESEARCH, DESIGN, AND IMPLEMENTS METHODOLOGICAL AND ALGORITHMIC SOLUTIONS TO DATA PROCESSING PROBLEMS, DESIGNING AND ANALYSING EVOLVING TRENDS IN HEALTH INFORMATICS, INTELLIGENT DISEASE PREDICTION, AND COMPUTER-AIDED DIAGNOSIS. COMPUTATIONAL INTELLIGENCE (CI) REFERS TO THE ABILITY OF COMPUTERS TO ACCOMPLISH TASKS THAT ARE NORMALLY COMPLETED BY INTELLIGENT BEINGS SUCH AS HUMANS AND ANIMALS. WITH THE RAPID ADVANCE OF TECHNOLOGY, ARTIFICIAL INTELLIGENCE (AI) TECHNIQUES ARE BEING EFFECTIVELY USED IN THE FIELDS OF HEALTH TO IMPROVE THE EFFICIENCY OF TREATMENTS, AVOID THE RISK OF FALSE DIAGNOSES, MAKE THERAPEUTIC DECISIONS, AND PREDICT THE OUTCOME IN MANY CLINICAL SCENARIOS. MODERN HEALTH TREATMENTS ARE FACED WITH THE CHALLENGE OF ACQUIRING, ANALYZING AND APPLYING THE LARGE AMOUNT OF KNOWLEDGE NECESSARY TO SOLVE COMPLEX PROBLEMS. COMPUTATIONAL INTELLIGENCE IN HEALTHCARE MAINLY USES COMPUTER TECHNIQUES TO PERFORM CLINICAL DIAGNOSES AND SUGGEST TREATMENTS. IN THE PRESENT SCENARIO OF COMPUTING, CI TOOLS PRESENT ADAPTIVE MECHANISMS THAT PERMIT THE

UNDERSTANDING OF DATA IN DIFFICULT AND CHANGING ENVIRONMENTS. THE DESIRED RESULTS OF CI TECHNOLOGIES PROFIT MEDICAL FIELDS BY ASSEMBLING PATIENTS WITH THE SAME TYPES OF DISEASES OR FITNESS PROBLEMS SO THAT HEALTHCARE FACILITIES CAN PROVIDE EFFECTUAL TREATMENTS. THIS BOOK STARTS WITH THE FUNDAMENTALS OF COMPUTER INTELLIGENCE AND THE TECHNIQUES AND PROCEDURES ASSOCIATED WITH IT. CONTAINED IN THIS BOOK ARE STATE-OF-THE-ART METHODS OF COMPUTATIONAL INTELLIGENCE AND OTHER ALLIED TECHNIQUES USED IN THE HEALTHCARE SYSTEM, AS WELL AS ADVANCES IN DIFFERENT CI METHODS THAT WILL CONFRONT THE PROBLEM OF EFFECTIVE DATA ANALYSIS AND STORAGE FACED BY HEALTHCARE INSTITUTIONS. THE OBJECTIVE OF THIS BOOK IS TO PROVIDE RESEARCHERS WITH A PLATFORM ENCOMPASSING STATE-OF-THE-ART INNOVATIONS; RESEARCH AND DESIGN; IMPLEMENTATION OF METHODOLOGICAL AND ALGORITHMIC SOLUTIONS TO DATA PROCESSING PROBLEMS; AND THE DESIGN AND ANALYSIS OF EVOLVING TRENDS IN HEALTH INFORMATICS, INTELLIGENT DISEASE PREDICTION AND COMPUTER-AIDED DIAGNOSIS. AUDIENCE THE BOOK IS OF INTEREST TO ARTIFICIAL INTELLIGENCE AND BIOMEDICAL SCIENTISTS, RESEARCHERS, ENGINEERS AND STUDENTS IN VARIOUS SETTINGS SUCH AS PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, VIRTUAL ASSISTANTS DEVELOPING COMPANIES, MEDICAL IMAGING & DIAGNOSTICS CENTERS, WEARABLE DEVICE DESIGNERS, HEALTHCARE ASSISTANCE ROBOT MANUFACTURERS, PRECISION MEDICINE TESTERS, HOSPITAL MANAGEMENT, AND RESEARCHERS WORKING IN HEALTHCARE SYSTEM.

MLI MADE EASY KULDEEP SHARMA 2021-04-22 THE MULTILATERAL CONVENTION TO IMPLEMENT TAX TREATY RELATED MEASURES TO PREVENT BASE EROSION AND PROFIT SHIFTING (MLI) PROVIDES AN INNOVATIVE APPROACH TO ENABLE COUNTRIES TO SWIFTLY MODIFY THEIR BILATERAL TAX TREATIES IN ORDER TO IMPLEMENT MEASURES DEVELOPED IN THE COURSE OF THE BASE EROSION AND PROFIT SHIFTING (BEPS) PROJECT. MLI, THE FIRST SUCCESSFULLY CONCLUDED MULTILATERAL TAX TREATY, PROVIDES JURISDICTIONS WITH THE TOOLS THEY NEED TO ENSURE THAT PROFITS ARE TAXED WHERE ECONOMIC ACTIVITIES GENERATING THE PROFITS ARE PERFORMED, WHILE AT THE SAME TIME GIVING BUSINESSES GREATER CERTAINTY. MLI MADE EASY MAKES IT EASIER TO GET A COMPLETE GRASP OF THIS SWIFT BUT COMPLEX MODIFICATION PROCESS OF TAX TREATIES. THIS FIRST AND ONLY SELF-CONTAINED BOOK OFFERS AN UNMATCHED ARTICLE-BY-ARTICLE DISCUSSION OF THE MLI WITH AN ABUNDANCE OF PRACTICAL EXAMPLES, DIAGRAMS, AND FLOWCHARTS TO MAKE THE INFORMATION EASIER TO UNDERSTAND AND APPLY. FOCUSING ON MEASURES TO COMBAT TAX EVASION AND ABUSE OF TAX TREATIES ARISING DUE TO ARTIFICIAL AVOIDANCE OF A PERMANENT ESTABLISHMENT STATUS, HYBRID MISMATCH ARRANGEMENTS, AND OTHER ASPECTS OF TAXATION, THE BOOK INCLUDES AN IN-DEPTH DISCUSSION OF THE FOLLOWING AND MORE: HOW SPECIFIC GAPS IN EXISTING BILATERAL TAX TREATIES ARE ADDRESSED BY THE MLI; POSITIONS TAKEN BY SELECTED JURISDICTIONS AND THEIR IMPACT ON TREATIES; COMPATIBILITY CLAUSES, NOTIFICATION CLAUSES, OPTING-IN MECHANISMS,

ALTERNATIVE PROVISIONS, AND RESERVATIONS; EXPERIENCES IN THE COURSE OF IMPLEMENTATION OF THE MLI; MISCONCEPTIONS AND LINGERING DOUBTS IN RESPECT OF VARIOUS SUBSTANTIVE AND PROCEDURAL PROVISIONS OF THE MLI; INTERACTION BETWEEN THE PRINCIPAL PURPOSE TEST AND SIMPLIFIED LIMITATION ON BENEFITS; IMPROVING DISPUTE RESOLUTION; AND MEANING OF THE PHRASES 'ON OR AFTER', 'OTHER TAXES', AND INTERPRETATIONAL ISSUES IN ENTRY INTO EFFECT PROVISIONS. ADOPTED BY A MAJORITY OF JURISDICTIONS WORLDWIDE, MLI PRESERVES THE TAX SOVEREIGNTY OF ITS PARTIES AND HAS BEEN SUCCESSFUL IN OVERCOMING BARRIERS TO THE CONCLUSION OF A WORLDWIDE MULTILATERAL TAX TREATY. BECAUSE THIS EASY-TO-USE BOOK IMMENSELY FACILITATES UNDERSTANDING AND APPLICATION OF THE TREATY MEASURES DEVELOPED IN THE COURSE OF THE BEPS PROJECT, IT WILL BE OF IMMEASURABLE USE TO PRACTITIONERS AND OTHER PROFESSIONALS ENGAGING IN INTERNATIONAL TAXATION, AS WELL AS TO TAXATION AUTHORITIES AND INTERESTED ACADEMICS IN ANY PART OF THE WORLD.

A PRESIDENT'S DAILY BRIEF: YEARS 1-4 MICAH FISHER-KIRSHNER

WHAT WAS DAILY LIFE UNDER THE TRUMP PRESIDENCY REALLY LIKE?

AN ACCESSIBLE EBOOK WITH SHORT, THEMATIC ENTRIES SHOWING THE CORRUPTION OF THE ENTIRE TRUMP PRESIDENCY, *A PRESIDENT'S DAILY BRIEF, YEAR 1-4: THE DAY-BY-DAY LURCH OF TRUMP'S NORM-BREAKING PRESIDENCY* IS THE FULL VOLUME OF MICAH FISHER-KIRSHNER'S SERIES, REPRESENTING THE FOUR YEARS OF TRUMP'S TIME IN POWER AND THE SUBVERSION THAT OCCURRED. MORE THAN A COMPILED LIST OF SIGNIFICANT EVENTS THAT PORTRAY TRUMP AS THE MOST CORRUPT AMERICAN PRESIDENT, THIS DIGESTIBLE AND SCANNABLE READ OF IN-THE-MOMENT POSTS PULLED FROM NEWS OUTLETS AND CREDIBLE SOURCES PROVIDES AN INTIMATE LOOK AT HOW THE ADMINISTRATION WENT ABOUT BREAKING THE PRESIDENTIAL NORMS ON A DAILY BASIS. READERS ALSO WILL HAVE ACCESS TO CITATIONS TO FACT-CHECK CLAIMS.

THIS QUICK READ ON A TRUMP PRESIDENCY THAT STARTED OFF WITH OUTRAGE AND GRADUATED TO RIGHTEOUS INDIGNATION IS A MUST-HAVE FOR THOSE WHO ENJOY HISTORY, POLITICS, AND GOVERNMENT OR SIMPLY WANT TO READ ABOUT THE MOST NOTORIOUS PRESIDENCY IN HISTORY.

97 THINGS EVERY DATA ENGINEER SHOULD KNOW TOBIAS MACEY 2021-06-11 TAKE ADVANTAGE OF TODAY'S SKY-HIGH DEMAND FOR DATA ENGINEERS. WITH THIS IN-DEPTH BOOK, CURRENT AND ASPIRING ENGINEERS WILL LEARN POWERFUL REAL-WORLD BEST PRACTICES FOR MANAGING DATA BIG AND SMALL. CONTRIBUTORS FROM NOTABLE COMPANIES INCLUDING TWITTER, GOOGLE, STITCH FIX, MICROSOFT, CAPITAL ONE, AND LINKEDIN SHARE THEIR EXPERIENCES AND LESSONS LEARNED FOR OVERCOMING A VARIETY OF SPECIFIC AND OFTEN NAGGING CHALLENGES. EDITED BY TOBIAS MACEY, HOST OF THE POPULAR DATA

2020-08-20 EFFICIENTLY PREPARE YOURSELF FOR THE DEMANDING COMP TIA CYSA+ EXAM COMP TIA CYSA+ PRACTICE TESTS: EXAM CS0-002, 2ND EDITION OFFERS READERS THE FASTEST AND BEST WAY TO PREPARE FOR THE COMP TIA CYBERSECURITY ANALYST EXAM. WITH FIVE UNIQUE CHAPTER TESTS AND TWO ADDITIONAL PRACTICE EXAMS FOR A TOTAL OF 1000 PRACTICE QUESTIONS, THIS BOOK COVERS TOPICS INCLUDING: THREAT AND VULNERABILITY MANAGEMENT SOFTWARE AND SYSTEMS SECURITY SECURITY OPERATIONS AND MONITORING INCIDENT RESPONSE COMPLIANCE AND ASSESSMENT THE NEW EDITION OF COMP TIA CYSA+ PRACTICE TESTS IS DESIGNED TO EQUIP THE READER TO TACKLE THE QUALIFICATION TEST FOR ONE OF THE MOST SOUGHT-AFTER AND IN-DEMAND CERTIFICATIONS IN THE INFORMATION TECHNOLOGY FIELD TODAY. THE AUTHORS ARE SEASONED CYBERSECURITY PROFESSIONALS AND LEADERS WHO GUIDE READERS THROUGH THE BROAD SPECTRUM OF SECURITY CONCEPTS AND TECHNOLOGIES THEY WILL BE REQUIRED TO MASTER BEFORE THEY CAN ACHIEVE SUCCESS ON THE COMP TIA CYSA EXAM. THE BOOK ALSO TESTS AND DEVELOPS THE CRITICAL THINKING SKILLS AND JUDGMENT THE READER WILL NEED TO DEMONSTRATE ON THE EXAM.

UNDERWATER WORKS REGIONAL ANTONIO NEVES LOUSADA 2021-03

ADVANCES IN MANAGING ENERGY AND CLIMATE RISKS

STEPHANE GOUTTE 2021-04-21 THIS BOOK PRESENTS RESEARCH RELATED TO ENERGY AND ENVIRONMENTAL TECHNOLOGIES IN THE CONTEXT OF MARKET LIBERALIZATION AND GLOBAL WARMING. IT FOCUSES ON THE DEVELOPMENT AND EFFICIENT USE OF ALTERNATIVE ENERGY SOURCES, IMPLEMENTATION OF SUSTAINABLE ENERGY POLICIES, POWER GENERATION, AND ENERGY FINANCE. ADVANCES IN MANAGING ENERGY AND CLIMATE RISKS PROVIDES READERS WITH THE NECESSARY INFORMATION TO USE ENERGY SOURCES MORE EFFICIENTLY, DISCOVER CLEANER ENERGY SOURCES AND THEIR APPLICATIONS, AND URGE CONSUMERS AND PRODUCERS TO MAKE CHANGES TO REACH A CARBON-NEUTRAL ECONOMY THROUGH FINANCIAL, TECHNOLOGICAL, REGULATORY AND TAX INCENTIVES.

FACTS AND ANALYSIS: CANVASSING COVID-19 RESPONSES

LINDA CHELAN LI 2021-03-01 IT IS IMPOSSIBLE TO REFLECT ON 2020 WITHOUT DISCUSSING COVID-19. THE TERM, LITERALLY MEANING CORONA- (CO) VIRUS (VI) DISEASE (D) OF 2019, HAS BECOME SYNONYMOUS WITH "THE VIRUS", "CORONA" AND "THE PANDEMIC". THE IMPACT OF THE VIRUS ON OUR LIVES IS UNPRECEDENTED IN MODERN HUMAN HISTORY, IN TERMS OF SCALE, DEPTH AND RESILIENCE. WHEN COMPARED TO OTHER EPIDEMICS THAT HAVE PLAGUED THE WORLD IN RECENT DECADES, COVID-19 IS OFTEN REFERRED TO AS BEING MUCH MORE "DEADLY" AND IS ASSOCIATED WITH ADVANCES IN TECHNOLOGY WHICH SCIENTISTS HAVE DESCRIBED AS "REVOLUTIONARY". FROM POLITICS TO ECONOMICS, SPANNING FAMILIES AND CONTINENTS, COVID-19 HAS UNSETTLED NORMS: CULTURAL CLASHES ARE INTENSIFIED, POLITICS ARE EVEN MORE POLARIZED, AND REGIONAL TENSIONS AND CONFLICTS ARE ON THE RISE. GLOBAL TRADE PATTERNS AND SUPPLY CHAINS ARE INCREASINGLY BEING QUESTIONED AND REDRAWN. THE WORLD

IS BEING ATOMIZED, AND INDIVIDUALS ARE FORCED TO ACCEPT THE "NEW NORMAL" IN THEIR ROUTINES. IN AN ATTEMPT TO COMBAT THE VIRUS AND MINIMIZE ITS DETRIMENTAL EFFECTS, COUNTRIES HAVE UNDERTAKEN DIFFERENT PREVENTIVE STRATEGIES AND CONTAINMENT POLICIES. SOME HAVE SUCCESSFULLY CURBED THE SPREAD OF COVID-19, WHILE MANY OTHERS REMAIN IN LIMBO, DOING THEIR BEST TO RESPOND TO OUTBREAKS IN CASES. TO GAIN A BETTER UNDERSTANDING OF HOW TO FIGHT COVID-19, IT IS IMPERATIVE TO EVALUATE THE SUCCESS AND FAILURES OF THESE APPROACHES. UNDER WHAT CONDITIONS IS AN APPROACH SUCCESSFUL? WHEN SHOULD IT BE AVOIDED? HOW CAN THIS INFORMATION BE USED TO AVOID FUTURE PANDEMICS? THIS VOLUME OFFERS INFORMATIVE COMPARATIVE CASE STUDIES THAT SHED LIGHT ON THESE KEY QUESTIONS. EACH COUNTRY CASE IS PERCEPTIVELY ANALYZED AND INCLUDES A DETAILED TIMELINE, ALLOWING READERS TO VIEW EACH RESPONSE WITH HINDSIGHT AND EXTRAPOLATE THE DATA TO BETTER UNDERSTAND WHAT THE FUTURE HOLDS. TAKEN AS A WHOLE, THIS COLLECTION OFFERS INVALUABLE INSIGHT AT THIS CRITICAL JUNCTURE IN THE COVID-19 PANDEMIC. "IN THE 'POST-TRUTH' ERA, SUCH CAREFUL DOCUMENTATION OF THE FACTS IS ESPECIALLY WELCOME." DR TANIA BURCHARDT ASSOCIATE PROFESSOR, DEPARTMENT OF SOCIAL POLICY LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE "THE END IS NOT YET IN SIGHT FOR THE PANDEMIC BUT IN THESE PAGES THE KEY FACTORS IN ITS DEVELOPMENT AND SOME POSSIBLE SOLUTIONS FOR THE FUTURE ARE LAID OUT IN WAYS THAT MAKE IT INDISPENSABLE READING." PROF DAVID S. G. GOODMAN PROFESSOR OF CHINA STUDIES AND FORMER VICE PRESIDENT, ACADEMIC XI'AN JIAOTONG-LIVERPOOL UNIVERSITY, SUZHOU "THIS BOOK IS AN IMPORTANT AND GROUNDBREAKING EFFORT BY SOCIAL SCIENTISTS TO UNDERSTAND ON HOW STATES HAVE BEEN MANAGING THE CRISIS." KEVIN HEWISON WELDON E. THORNTON DISTINGUISHED EMERITUS PROFESSOR UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL "THIS IS EXACTLY THE KIND OF RESEARCH THAT WILL CONTRIBUTE TO OUR FIGHT AGAINST COVID-19." TAK-WING NGO UNIVERSITY OF MACAU "A WELL-RESEARCHED BOOK ON COVID-19 HIGHLIGHTING THE VALUE OF THE METICULOUS FACT-BASED GROUNDWORK BY AN INTERNATIONAL TEAM." CARLSON TONG, GBS, JP FORMER CHAIRMAN, SECURITIES AND FUTURES COMMISSION, HONG KONG CHAIRMAN, UNIVERSITY GRANTS COMMITTEE, HONG KONG

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FINDING OUR WAY THROUGH THE DARK DEMETRA GEORGE 2008 FINDING OUR WAY THROUGH THE DARK PRESENTS AN ASTROLOGICAL LUNAR-BASED MODEL TO EXPLORE THE PERIODIC DARK AND DIFFICULT TIMES IN OUR LIFE AS RITES OF PASSAGE LEADING TO RENEWAL. IT OFFERS A NEW VISION OF DARKNESS AS A PLACE OF INSIGHT, HEALING AND REGENERATION. EACH SECTION IS ACCOMPANIED BY A WORKBOOK AND JOURNAL SO THAT YOU CAN DISCOVER WHEN

THESE PERIODS OF TRANSITION OCCUR IN YOUR OWN LIFE, ILLUMINATING THE HIDDEN MOTIFS THAT SHAPE YOUR EXPERIENCES. THIS BOOK EXPLAINS AND REFRAMES THE ASTROLOGICAL FACTORS THAT FACILITATE YOUR LIFE JOURNEY FROM ENDINGS TO NEW BEGINNINGS. DEMETRA GEORGE, M.A. CLASSICS, RECEIVED THE 2002 REGULUS AWARD FOR THEORY AND UNDERSTANDING. A PRACTITIONER OF ASTROLOGY FOR MORE THAN 35 YEARS SPECIALIZING IN ARCHETYPAL MYTHOLOGY AND ANCIENT ASTROLOGY, SHE IS THE AUTHOR OF NUMEROUS BOOKS AND ARTICLES, INCLUDING *ASTROLOGY FOR YOURSELF*, *ASTEROID GODDESSES*, *MYSTERIES OF THE DARK MOON*, AND *ASTROLOGY AND THE AUTHENTIC SELF*. SHE LIVES IN OREGON, LECTURES INTERNATIONALLY, AND LEADS PILGRIMAGES TO THE SACRED SITES IN THE MEDITERRANEAN AND INDIA WITH ANCIENT ORACLE TOURS. DIRECTOR OF THEMA: FOUNDATIONS IN ASTROLOGY, SHE MENTORS PRIVATE STUDENTS IN HELLENISTIC ASTROLOGY, MODERN CHART DELINEATION, AND ASTEROIDS.

INTERNET OF MEDICAL THINGS FOR SMART HEALTHCARE
CHINMAY CHAKRABORTY 2020-12-11 THIS BOOK COVERS COVID-19 RELATED RESEARCH WORKS AND FOCUSES ON RECENT ADVANCES IN THE INTERNET OF THINGS (IoT) IN SMART HEALTHCARE TECHNOLOGIES. IT INCLUDES REVIEWS AND ORIGINAL WORKS ON COVID-19 IN TERMS OF E-HEALTHCARE, MEDICINE TECHNOLOGY, LIFE SUPPORT SYSTEMS, FAST DETECTION, DIAGNOSES, DEVELOPED TECHNOLOGIES AND INNOVATIVE SOLUTIONS, BIOINFORMATICS, DATASETS, APPS FOR DIAGNOSIS, SOLUTIONS FOR MONITORING AND CONTROL OF THE SPREAD OF COVID-19, AMONG OTHER TOPICS. THE BOOK COVERS COMPREHENSIVE STUDIES FROM BIOELECTRONICS AND BIOMEDICAL ENGINEERING, ARTIFICIAL INTELLIGENCE, AND BIG DATA WITH A PRIME FOCUS ON COVID-19 PANDEMIC.

COVID-19: THE GREAT RESET THIERRY MALLERET

2020-07-09 "THE CORONA CRISIS AND THE NEED FOR A GREAT RESET" IS A GUIDE FOR ANYONE WHO WANTS TO UNDERSTAND HOW COVID-19 DISRUPTED OUR SOCIAL AND ECONOMIC SYSTEMS, AND WHAT CHANGES WILL BE NEEDED TO CREATE A MORE INCLUSIVE, RESILIENT AND SUSTAINABLE WORLD GOING FORWARD. THIERRY MALLERET, FOUNDER OF THE MONTHLY BAROMETER, AND KLAUS SCHWAB, FOUNDER AND EXECUTIVE CHAIRMAN OF THE WORLD ECONOMIC FORUM, EXPLORE WHAT THE ROOT CAUSES OF THESE CRISIS WERE, AND WHY THEY LEAD TO A NEED FOR A GREAT RESET. THEIRS IS A WORRYING, YET HOPEFUL ANALYSIS. COVID-19 HAS CREATED A GREAT DISRUPTIVE RESET OF OUR GLOBAL SOCIAL, ECONOMIC, AND POLITICAL SYSTEMS. BUT THE POWER OF HUMAN BEINGS LIES IN BEING FORESIGHTED AND HAVING THE INGENUITY, AT LEAST TO A CERTAIN EXTENT, TO TAKE THEIR DESTINY INTO THEIR HANDS AND TO PLAN FOR A BETTER FUTURE. THIS IS THE PURPOSE OF THIS BOOK: TO SHAKE UP AND TO SHOW THE DEFICIENCIES WHICH WERE MANIFEST IN OUR GLOBAL SYSTEM, EVEN BEFORE COVID BROKE OUT.

COMPUTER SECURITY - ESORICS 2020 LIQUN CHEN
2020-09-12 THE TWO VOLUME SET, LNCS 12308 + 12309, CONSTITUTES THE PROCEEDINGS OF THE 25TH EUROPEAN SYMPOSIUM ON RESEARCH IN COMPUTER SECURITY, ESORICS 2020, WHICH WAS HELD IN SEPTEMBER 2020. THE CONFERENCE WAS PLANNED TO TAKE PLACE IN GUILDFORD, UK. DUE TO THE COVID-19 PANDEMIC, THE CONFERENCE CHANGED TO AN ONLINE FORMAT. THE TOTAL OF 72 FULL PAPERS INCLUDED IN THESE PROCEEDINGS WAS CAREFULLY REVIEWED AND SELECTED FROM 366 SUBMISSIONS. THE PAPERS WERE ORGANIZED IN TOPICAL SECTIONS NAMED: DATABASE AND WEB SECURITY; SYSTEM SECURITY; NETWORK SECURITY; SOFTWARE SECURITY; MACHINE LEARNING SECURITY; PRIVACY; FORMAL MODELLING; APPLIED CRYPTOGRAPHY; ANALYZING ATTACKS; POST-QUANTUM CRYPTOGRAPHY; SECURITY ANALYSIS; AND BLOCKCHAIN.