

Me 2016 Computing Techniques Required

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APPLICATIONS OF COMPUTATIONAL INTELLIGENCE IN CONCRETE TECHNOLOGY SAKSHI GUPTA 2022-06-23 COMPUTATIONAL INTELLIGENCE (CI) IN CONCRETE TECHNOLOGY HAS NOT YET BEEN FULLY EXPLORED WORLDWIDE BECAUSE OF SOME LIMITATIONS IN DATA SETS. THIS BOOK DISCUSSES THE SELECTION AND SEPARATION OF DATA SETS, PERFORMANCE EVALUATION PARAMETERS FOR DIFFERENT TYPES OF CONCRETE AND RELATED MATERIALS, AND SENSITIVITY ANALYSIS RELATED TO VARIOUS CI TECHNIQUES. FUNDAMENTAL CONCEPTS AND ESSENTIAL ANALYSIS FOR CI TECHNIQUES SUCH AS ARTIFICIAL NEURAL NETWORK, FUZZY SYSTEM, SUPPORT VECTOR MACHINE, AND HOW THEY WORK TOGETHER FOR RESOLVING REAL-LIFE PROBLEMS, ARE EXPLAINED. FEATURES: IT IS THE FIRST BOOK ON THIS FAST-GROWING RESEARCH FIELD. IT DISCUSSES THE USE OF VARIOUS COMPUTATION INTELLIGENCE TECHNIQUES IN CONCRETE TECHNOLOGY APPLICATIONS. IT EXPLAINS THE EFFECTIVENESS OF THE METHODS USED AND THE WIDE RANGE OF AVAILABLE TECHNIQUES. IT INTEGRATES A WIDE RANGE OF DISCIPLINES FROM CIVIL ENGINEERING, CONSTRUCTION TECHNOLOGY, AND CONCRETE TECHNOLOGY TO COMPUTATION INTELLIGENCE, SOFT COMPUTING, DATA SCIENCE, COMPUTER SCIENCE, AND SO ON. IT BRINGS TOGETHER THE EXPERIENCES OF CONTRIBUTORS FROM AROUND THE WORLD WHO ARE DOING RESEARCH IN THIS FIELD AND EXPLORES THE DIFFERENT ASPECTS OF THEIR RESEARCH. THE TECHNICAL CONTENT INCLUDED IS BENEFICIAL FOR RESEARCHERS AS WELL AS PRACTICING ENGINEERS IN THE CONCRETE AND CONSTRUCTION INDUSTRY.

SMART INTELLIGENT COMPUTING AND APPLICATIONS SURESH CHANDRA SATAPATHY 2018-11-04 THE PROCEEDINGS COVERS ADVANCED AND MULTI-DISCIPLINARY RESEARCH ON DESIGN OF SMART COMPUTING AND INFORMATICS. THE THEME OF THE BOOK BROADLY FOCUSES ON VARIOUS INNOVATION PARADIGMS IN SYSTEM KNOWLEDGE, INTELLIGENCE AND SUSTAINABILITY THAT MAY BE APPLIED TO PROVIDE REALISTIC SOLUTION TO VARIED PROBLEMS IN SOCIETY, ENVIRONMENT AND INDUSTRIES. THE VOLUME PUBLISHES QUALITY WORK PERTAINING TO THE SCOPE OF THE CONFERENCE WHICH IS EXTENDED TOWARDS DEPLOYMENT OF EMERGING COMPUTATIONAL AND KNOWLEDGE TRANSFER APPROACHES, OPTIMIZING SOLUTIONS IN VARIED DISCIPLINES OF SCIENCE, TECHNOLOGY AND HEALTHCARE.

DESIGNING COGNITIVE CITIES EDY PORTMANN 2018-09-18 THIS BOOK ILLUSTRATES VARIOUS ASPECTS AND DIMENSIONS OF COGNITIVE CITIES. FOLLOWING A COMPREHENSIVE INTRODUCTION, THE FIRST PART OF THE BOOK EXPLORES CONCEPTUAL CONSIDERATIONS FOR THE DESIGN OF COGNITIVE CITIES, WHILE THE SECOND PART FOCUSES ON CONCRETE APPLICATIONS. THE CONTRIBUTIONS PROVIDE AN OVERVIEW OF THE WIDE DIVERSITY OF COGNITIVE CITY CONCEPTUALIZATIONS AND HELP READERS TO BETTER UNDERSTAND WHY IT IS IMPORTANT TO THINK ABOUT THE DESIGN OF OUR CITIES. THE BOOK ADOPTS A TRANSDISCIPLINARY APPROACH SINCE THE COGNITIVE CITY CONCEPT CAN ONLY BE ACHIEVED THROUGH COOPERATION ACROSS DIFFERENT ACADEMIC DISCIPLINES (E.G., ECONOMICS, COMPUTER SCIENCE, MATHEMATICS) AND BETWEEN RESEARCH AND PRACTICE. MORE AND MORE PEOPLE LIVE IN A GROWING NUMBER OF EVER-LARGER CITIES. AS SUCH, IT IS IMPORTANT TO REFLECT ON HOW CITIES NEED TO BE DESIGNED TO PROVIDE THEIR INHABITANTS WITH THE MEANS AND RESOURCES FOR A GOOD LIFE. THE COGNITIVE CITY IS AN EMERGING, INNOVATIVE APPROACH TO ADDRESS THIS NEED.

PROGRESS IN INTELLIGENT COMPUTING TECHNIQUES: THEORY, PRACTICE, AND APPLICATIONS PANKAJ KUMAR SA 2017-07-12 THE BOOK FOCUSES ON BOTH THEORY AND APPLICATIONS IN THE BROAD AREAS OF COMMUNICATION TECHNOLOGY, COMPUTER SCIENCE AND INFORMATION SECURITY. THIS TWO VOLUME BOOK CONTAINS THE PROCEEDINGS OF 4TH INTERNATIONAL CONFERENCE ON ADVANCED COMPUTING, NETWORKING AND INFORMATICS. THIS BOOK BRINGS TOGETHER ACADEMIC SCIENTISTS, PROFESSORS, RESEARCH SCHOLARS AND STUDENTS TO SHARE AND DISSEMINATE INFORMATION ON KNOWLEDGE AND SCIENTIFIC RESEARCH WORKS RELATED TO COMPUTING, NETWORKING, AND INFORMATICS TO DISCUSS THE PRACTICAL CHALLENGES ENCOUNTERED AND THE SOLUTIONS ADOPTED. THE BOOK ALSO PROMOTES TRANSLATION OF BASIC RESEARCH INTO APPLIED INVESTIGATION AND CONVERT APPLIED INVESTIGATION INTO PRACTICE.

ADVANCES IN SYSTEM DYNAMICS AND CONTROL AZAR, AHMAD TAHER 2018-02-09 COMPLEX SYSTEMS ARE PERVASIVE IN MANY AREAS OF SCIENCE. WITH THE INCREASING REQUIREMENT FOR HIGH LEVELS OF SYSTEM PERFORMANCE, COMPLEX SYSTEMS HAS BECOME AN IMPORTANT AREA OF RESEARCH DUE TO ITS ROLE IN MANY INDUSTRIES. ADVANCES IN SYSTEM DYNAMICS AND CONTROL PROVIDES EMERGING RESEARCH ON THE APPLICATIONS IN THE FIELD OF CONTROL AND ANALYSIS FOR COMPLEX SYSTEMS, WITH A SPECIAL EMPHASIS ON HOW TO SOLVE VARIOUS CONTROL DESIGN AND OBSERVER DESIGN PROBLEMS, NONLINEAR SYSTEMS, INTERCONNECTED SYSTEMS, AND SINGULAR SYSTEMS. FEATURING COVERAGE ON A BROAD RANGE OF TOPICS, SUCH AS ADAPTIVE CONTROL, ARTIFICIAL NEURAL NETWORK, AND SYNCHRONIZATION, THIS BOOK IS AN IMPORTANT RESOURCE FOR ENGINEERS, PROFESSIONALS, AND RESEARCHERS INTERESTED IN APPLYING NEW COMPUTATIONAL AND MATHEMATICAL TOOLS FOR SOLVING THE COMPLICATED PROBLEMS OF MATHEMATICAL MODELING, SIMULATION, AND CONTROL.

ADVANCED COMPUTATIONAL TECHNIQUES FOR SUSTAINABLE COMPUTING MEGHA RATHI 2022-06-08 ADVANCED COMPUTATIONAL TECHNIQUES FOR SUSTAINABLE COMPUTING IS CONSIDERED MULTI-DISCIPLINARY FIELD ENCOMPASSING ADVANCED COMPUTATIONAL TECHNIQUES ACROSS SEVERAL DOMAIN, INCLUDING, COMPUTER SCIENCE, STATISTICAL COMPUTATION AND ELECTRONICS ENGINEERING. THE CORE IDEA OF SUSTAINABLE COMPUTING IS TO DEPLOY ALGORITHMS, MODELS, POLICIES AND PROTOCOLS TO IMPROVE ENERGY EFFICIENCY AND MANAGEMENT OF RESOURCES, ENHANCING ECOLOGICAL BALANCE, BIOLOGICAL SUSTENANCE AND OTHER SERVICES ON SOCIETAL CONTEXTS. THE BOOK OFFERS COMPREHENSIVE COVERAGE OF THE MOST ESSENTIAL TOPICS, AND: PROVIDES INSIGHT ON BUILDING SMART SUSTAINABLE SOLUTIONS INCLUDES DETAILS OF APPLYING MINING, LEARNING, IOT AND SENSOR-BASED TECHNIQUES FOR SUSTAINABLE COMPUTING ENTAILS DATA EXTRACTION FROM VARIOUS SOURCES FOLLOWED WITH PRE-PROCESSING OF DATA, AND HOW TO MAKE EFFECTIVE USE OF EXTRACTED DATA FOR APPLICATION-BASED RESEARCH INVOLVES PRACTICAL USAGE OF DATA ANALYTIC LANGUAGE, INCLUDING R, PYTHON, ETC. FOR IMPROVING SUSTAINABLE SERVICES OFFERED BY MULTI-DISCIPLINARY DOMAINS ENCOMPASSES COMPARISON AND ANALYSIS OF RECENT TECHNOLOGIES AND TRENDS INCLUDES DEVELOPMENT OF SMART MODELS FOR INFORMATION GAIN AND EFFECTIVE DECISION MAKING WITH VISUALIZATION THE READERS WOULD GET ACQUAINTED WITH THE UTILIZATION OF MASSIVE DATA SETS FOR INTELLIGENT MINING AND PROCESSING. IT INCLUDES THE INTEGRATION OF DATA MINING TECHNIQUES FOR EFFECTIVE DECISION-MAKING IN THE SOCIAL, ECONOMIC, AND GLOBAL ENVIRONMENTAL DOMAINS TO ACHIEVE SUSTAINABILITY. THE IMPLEMENTATION OF COMPUTATIONAL FRAMEWORKS CAN BE ACCOMPLISHED USING OPEN-SOURCE SOFTWARE FOR THE BUILDING OF RESOURCE-EFFICIENT MODELS. THE CONTENT OF THE BOOK DEMONSTRATES THE USAGE OF DATA SCIENCE AND THE INTERNET OF THINGS FOR THE ADVENT OF SMART AND REALISTIC SOLUTIONS FOR ATTAINING SUSTAINABILITY.

ARTIFICIAL INTELLIGENCE AND BIOINSPIRED COMPUTATIONAL METHODS RADEK SILHAVY 2020-08-08 THIS BOOK GATHERS THE REFEREED PROCEEDINGS OF THE ARTIFICIAL INTELLIGENCE AND BIOINSPIRED COMPUTATIONAL METHODS SECTION OF THE 9TH COMPUTER SCIENCE ON-LINE CONFERENCE 2020 (CSOC 2020), HELD ON-LINE IN APRIL 2020. ARTIFICIAL INTELLIGENCE AND BIOINSPIRED COMPUTATIONAL METHODS NOW REPRESENT CRUCIAL AREAS OF COMPUTER SCIENCE RESEARCH. THE TOPICS PRESENTED HERE REFLECT THE CURRENT DISCUSSION ON CUTTING-EDGE HYBRID AND BIOINSPIRED ALGORITHMS AND THEIR APPLICATIONS.

ADVANCED COMPUTATIONAL METHODS FOR KNOWLEDGE ENGINEERING HOAI AN LE THI 2019-12-19 THIS PROCEEDINGS BOOK CONTAINS 37 PAPERS SELECTED FROM THE SUBMISSIONS TO THE 6TH INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE, APPLIED MATHEMATICS AND APPLICATIONS (ICCSAMA 2019), WHICH WAS HELD ON 19-20 DECEMBER, 2019, IN HANOI, VIETNAM. THE BOOK COVERS THEORETICAL AND ALGORITHMIC AS WELL AS PRACTICAL ISSUES CONNECTED WITH SEVERAL DOMAINS OF APPLIED MATHEMATICS AND COMPUTER SCIENCE, ESPECIALLY OPTIMIZATION AND DATA SCIENCE. THE CONTENT IS DIVIDED INTO FOUR MAJOR SECTIONS: NONCONVEX OPTIMIZATION, DC PROGRAMMING & DCA, AND APPLICATIONS; DATA MINING AND DATA PROCESSING; MACHINE LEARNING METHODS AND APPLICATIONS; AND KNOWLEDGE INFORMATION AND ENGINEERING SYSTEMS. RESEARCHERS AND PRACTITIONERS IN RELATED AREAS WILL FIND A WEALTH OF INSPIRING IDEAS AND USEFUL TOOLS & TECHNIQUES FOR THEIR OWN WORK.

EMERGING TECHNOLOGIES IN COMPUTING MAHDI H. MIRAZ 2019-07-31 THIS BOOK CONSTITUTES THE REFEREED CONFERENCE PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES IN COMPUTING, ICETIC 2019, HELD IN LONDON, UK, IN AUGUST 2019. THE 24 REVISED FULL PAPERS WERE REVIEWED AND SELECTED FROM 52 SUBMISSIONS AND ARE ORGANIZED IN TOPICAL SECTIONS COVERING BLOCKCHAIN AND CLOUD COMPUTING, SECURITY, WIRELESS SENSOR NETWORKS AND INTERNET OF THINGS, (IoT), FINTECH, AI, BIG DATA AND DATA ANALYTICS.

RESEARCH METHODS IN HUMAN-COMPUTER INTERACTION JONATHAN LAZAR 2017-04-28 RESEARCH METHODS IN HUMAN-COMPUTER INTERACTION IS A COMPREHENSIVE GUIDE TO PERFORMING RESEARCH AND IS ESSENTIAL READING FOR BOTH QUANTITATIVE AND QUALITATIVE METHODS. SINCE THE FIRST EDITION WAS PUBLISHED IN 2009, THE BOOK HAS BEEN ADOPTED FOR USE AT LEADING UNIVERSITIES AROUND THE WORLD, INCLUDING HARVARD UNIVERSITY, CARNEGIE-MELLON UNIVERSITY, THE UNIVERSITY OF

WASHINGTON, THE UNIVERSITY OF TORONTO, HIOA (NORWAY), KTH (SWEDEN), TEL AVIV UNIVERSITY (ISRAEL), AND MANY OTHERS. CHAPTERS COVER A BROAD RANGE OF TOPICS RELEVANT TO THE COLLECTION AND ANALYSIS OF HCI DATA, GOING BEYOND EXPERIMENTAL DESIGN AND SURVEYS, TO COVER ETHNOGRAPHY, DIARIES, PHYSIOLOGICAL MEASUREMENTS, CASE STUDIES, CROWDSOURCING, AND OTHER ESSENTIAL ELEMENTS IN THE WELL-INFORMED HCI RESEARCHER'S TOOLKIT. CONTINUAL TECHNOLOGICAL EVOLUTION HAS LED TO AN EXPLOSION OF NEW TECHNIQUES AND A NEED FOR THIS UPDATED 2ND EDITION, TO REFLECT THE MOST RECENT RESEARCH IN THE FIELD AND NEWER TRENDS IN RESEARCH METHODOLOGY. THIS RESEARCH METHODS IN HCI REVISION CONTAINS UPDATES THROUGHOUT, INCLUDING MORE DETAIL ON STATISTICAL TESTS, CODING QUALITATIVE DATA, AND DATA COLLECTION VIA MOBILE DEVICES AND SENSORS. OTHER NEW MATERIAL COVERS PERFORMING RESEARCH WITH CHILDREN, OLDER ADULTS, AND PEOPLE WITH COGNITIVE IMPAIRMENTS. COMPREHENSIVE AND UPDATED GUIDE TO THE LATEST RESEARCH METHODOLOGIES AND APPROACHES, AND NOW AVAILABLE IN EPUB3 FORMAT (CHOOSE ANY OF THE EPUB OR MOBI FORMATS AFTER PURCHASE OF THE eBook). EXPANDED DISCUSSIONS OF ONLINE DATASETS, CROWDSOURCING, STATISTICAL TESTS, CODING QUALITATIVE DATA, LAWS AND REGULATIONS RELATING TO THE USE OF HUMAN PARTICIPANTS, AND DATA COLLECTION VIA MOBILE DEVICES AND SENSORS NEW MATERIAL ON PERFORMING RESEARCH WITH CHILDREN, OLDER ADULTS, AND PEOPLE WITH COGNITIVE IMPAIRMENTS, TWO NEW CASE STUDIES FROM GOOGLE AND YAHOO!, AND TECHNIQUES FOR EXPANDING THE INFLUENCE OF YOUR RESEARCH TO REACH NON-RESEARCHER AUDIENCES, INCLUDING SOFTWARE DEVELOPERS AND POLICYMAKERS

E-PLANNING AND COLLABORATION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS MANAGEMENT ASSOCIATION, INFORMATION RESOURCES 2018-06-04 AS POPULATION GROWTH ACCELERATES, RESEARCHERS AND PROFESSIONALS FACE CHALLENGES AS THEY ATTEMPT TO PLAN FOR THE FUTURE. E-PLANNING IS A SIGNIFICANT COMPONENT IN ADDRESSING THE KEY CONCERNS AS THE WORLD POPULATION MOVES TOWARDS URBAN ENVIRONMENTS. E-PLANNING AND COLLABORATION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS CONTAINS A COMPENDIUM OF THE LATEST ACADEMIC MATERIAL ON THE EMERGING INTERDISCIPLINARY AREAS OF E-PLANNING AND COLLABORATION. INCLUDING INNOVATIVE STUDIES ON DATA MANAGEMENT, URBAN DEVELOPMENT, AND CROWDSOURCING, THIS MULTI-VOLUME BOOK IS AN IDEAL SOURCE FOR PLANNERS, POLICYMAKERS, RESEARCHERS, AND GRADUATE STUDENTS INTERESTED IN HOW RECENT TECHNOLOGICAL ADVANCEMENTS ARE ENHANCING THE TRADITIONAL PRACTICES IN E-PLANNING.

APPLICATIONS OF COMPUTING, AUTOMATION AND WIRELESS SYSTEMS IN ELECTRICAL ENGINEERING SUKUMAR MISHRA 2019-05-31 THIS BOOK DISCUSSES KEY CONCEPTS, CHALLENGES AND POTENTIAL SOLUTIONS IN CONNECTION WITH ESTABLISHED AND EMERGING TOPICS IN ADVANCED COMPUTING, RENEWABLE ENERGY AND NETWORK COMMUNICATIONS. GATHERING EDITED PAPERS PRESENTED AT MARC 2018 ON JULY 19, 2018, IT WILL HELP RESEARCHERS PURSUE AND PROMOTE ADVANCED RESEARCH IN THE FIELDS OF ELECTRICAL ENGINEERING, COMMUNICATION, COMPUTING AND MANUFACTURING.

INTELLIGENT AND INTERACTIVE COMPUTING VINCENZO PIURI 2019-05-16 THIS BOOK PRESENTS THE LATEST RESEARCH ON COMPUTATIONAL APPROACHES TO LEARNING. IT INCLUDES HIGH-QUALITY PEER-REVIEWED PAPERS FROM THE "INTELLIGENT AND INTERACTIVE COMPUTING CONFERENCE (IIC 2018)" ORGANIZED BY THE UNIVERSITI TEKNIKAL MALAYSIA, MELAKA. IT USES EMPIRICAL STUDIES, THEORETICAL ANALYSIS, AND COMPARISONS WITH PSYCHOLOGICAL PHENOMENA TO SHOW HOW LEARNING METHODS CAN BE EMPLOYED TO SOLVE IMPORTANT APPLICATION PROBLEMS. THE BOOK ALSO DESCRIBES ONGOING RESEARCH IN VARIOUS RESEARCH LABS, UNIVERSITIES AND INSTITUTIONS, WHICH MAY LEAD TO THE DEVELOPMENT OF MARKETABLE PRODUCTS.

SOCIAL COMPUTING AND SOCIAL MEDIA. TECHNOLOGIES AND ANALYTICS GABRIELE MEISELWITZ 2018-07-10 THE TWO VOLUMES SET LNCS 10913-10914 OF SCSM 2018 CONSTITUTES THE PROCEEDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON SOCIAL COMPUTING AND SOCIAL MEDIA, SCSM 2018, HELD AS PART OF THE INTERNATIONAL CONFERENCE ON HUMAN-COMPUTER INTERACTION, HCII 2018, HELD IN LAS VEGAS, NV, USA, IN JULY 2018. THE TOTAL OF 1171 PAPERS AND 160 POSTERS PRESENTED AT THE 14 COLOCATED HCII 2018 CONFERENCES. THE PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 4346 SUBMISSIONS. THESE PAPERS WHICH ARE ORGANIZED IN THE FOLLOWING TOPICAL SECTIONS: SOCIAL MEDIA USER EXPERIENCE, INDIVIDUAL AND SOCIAL BEHAVIOR IN SOCIAL MEDIA, PRIVACY AND ETHICAL ISSUES IN SOCIAL MEDIA, MOTIVATION AND GAMIFICATION IN SOCIAL MEDIA, SOCIAL NETWORK ANALYSIS, AND AGENTS, MODELS AND ALGORITHMS IN SOCIAL MEDIA.

SOFT COMPUTING TECHNIQUES IN SOLID WASTE AND WASTEWATER MANAGEMENT RAMA KARRI 2021-07-24 SOFT COMPUTING TECHNIQUES IN SOLID WASTE AND WASTEWATER MANAGEMENT IS A THOROUGH GUIDE TO COMPUTATIONAL SOLUTIONS FOR RESEARCHERS WORKING IN SOLID WASTE AND WASTEWATER MANAGEMENT OPERATIONS. THIS BOOK COVERS IN-DEPTH ANALYSIS OF PROCESS VARIABLES, THEIR EFFECTS ON OVERALL EFFICIENCIES, AND OPTIMAL CONDITIONS AND PROCEDURES TO IMPROVE PERFORMANCE USING SOFT COMPUTING TECHNIQUES. THESE TOPICS COUPLED WITH THE SYSTEMATIC ANALYSES DESCRIBED WILL HELP READERS UNDERSTAND VARIOUS TECHNIQUES THAT CAN BE EFFECTIVELY USED TO ACHIEVE THE HIGHEST PERFORMANCE. IN-DEPTH

CASE STUDIES ALONG WITH DISCUSSIONS ON APPLICATIONS OF VARIOUS SOFT-COMPUTING TECHNIQUES HELP READERS CONTROL WASTE PROCESSES AND COME UP WITH SHORT-TERM, MID-TERM AND LONG-TERM STRATEGIES. WASTE MANAGEMENT IS AN INCREASINGLY IMPORTANT FIELD DUE TO RAPIDLY INCREASING LEVELS OF WASTE PRODUCTION AROUND THE WORLD. NUMEROUS POTENTIAL SOLUTIONS FOR REDUCING WASTE PRODUCTION ARE UNDERWAY, INCLUDING APPLICATIONS OF MACHINE LEARNING AND COMPUTATIONAL STUDIES ON WASTE MANAGEMENT PROCESSES. THIS BOOK DETAILS THE DIVERSE APPROACHES AND TECHNIQUES IN THESE FIELDS, PROVIDING A SINGLE SOURCE OF INFORMATION RESEARCHERS AND INDUSTRY PRACTITIONERS. IT IS IDEAL FOR ACADEMICS, RESEARCHERS AND ENGINEERS IN WASTE MANAGEMENT, ENVIRONMENTAL SCIENCE, ENVIRONMENTAL ENGINEERING AND COMPUTING, WITH RELATION TO ENVIRONMENTAL SCIENCE AND WASTE MANAGEMENT. PROVIDES A COMPREHENSIVE REFERENCE ON THE IMPLEMENTATION OF SOFT COMPUTING TECHNIQUES IN WASTE MANAGEMENT, DRAWING TOGETHER CURRENT RESEARCH AND FUTURE IMPLICATIONS INCLUDES DETAILED ALGORITHMS USED, ENABLING AUTHORS TO UNDERSTAND AND APPRECIATE POTENTIAL APPLICATIONS PRESENTS RELEVANT CASE STUDIES IN SOLID AND WASTEWATER MANAGEMENT THAT SHOW REAL-WORLD APPLICATIONS OF DISCUSSED TECHNOLOGIES

NEW TRENDS IN INTELLIGENT SOFTWARE METHODOLOGIES, TOOLS AND TECHNIQUES H. FUJITA 2017-09-07 SOFTWARE IS AN ESSENTIAL ENABLER FOR SCIENCE AND THE NEW ECONOMY. IT CREATES NEW MARKETS AND DIRECTIONS FOR A MORE RELIABLE, FLEXIBLE AND ROBUST SOCIETY AND EMPOWERS THE EXPLORATION OF OUR WORLD IN EVER MORE DEPTH, BUT IT OFTEN FALLS SHORT OF OUR EXPECTATIONS. CURRENT SOFTWARE METHODOLOGIES, TOOLS, AND TECHNIQUES ARE STILL NEITHER ROBUST NOR RELIABLE ENOUGH FOR THE CONSTANTLY EVOLVING MARKET, AND MANY PROMISING APPROACHES HAVE SO FAR FAILED TO DELIVER THE SOLUTIONS REQUIRED. THIS BOOK PRESENTS THE KEYNOTE 'ENGINEERING CYBER-PHYSICAL SYSTEMS' AND 64 PEER-REVIEWED PAPERS FROM THE 16TH INTERNATIONAL CONFERENCE ON NEW TRENDS IN INTELLIGENT SOFTWARE METHODOLOGY TOOLS, AND TECHNIQUES, (SoMeT_17), HELD IN KITAKYUSHU, JAPAN, IN SEPTEMBER 2017, WHICH BROUGHT TOGETHER RESEARCHERS AND PRACTITIONERS TO SHARE ORIGINAL RESEARCH RESULTS AND PRACTICAL DEVELOPMENT EXPERIENCE IN SOFTWARE SCIENCE AND RELATED NEW TECHNOLOGIES. THE AIM OF THE SoMeT CONFERENCES IS TO CAPTURE THE ESSENCE OF THE NEW STATE-OF-THE-ART IN SOFTWARE SCIENCE AND ITS SUPPORTING TECHNOLOGY AND TO IDENTIFY THE CHALLENGES SUCH TECHNOLOGY WILL HAVE TO MASTER. THE BOOK EXPLORES NEW TRENDS AND THEORIES WHICH ILLUMINATE THE DIRECTION OF DEVELOPMENTS IN THIS FIELD, AND WILL BE OF INTEREST TO ANYONE WHOSE WORK INVOLVES SOFTWARE SCIENCE AND ITS INTEGRATION INTO TOMORROW'S GLOBAL INFORMATION SOCIETY.

RECENT FINDINGS IN INTELLIGENT COMPUTING TECHNIQUES PANKAJ KUMAR SA 2018-11-04 THIS THREE VOLUME BOOK CONTAINS THE PROCEEDINGS OF 5TH INTERNATIONAL CONFERENCE ON ADVANCED COMPUTING, NETWORKING AND INFORMATICS (ICACNI 2017). THE BOOK FOCUSES ON THE RECENT ADVANCEMENT OF THE BROAD AREAS OF ADVANCED COMPUTING, NETWORKING AND INFORMATICS. IT ALSO INCLUDES NOVEL APPROACHES DEvised BY RESEARCHERS FROM ACROSS THE GLOBE. THIS BOOK BRINGS TOGETHER ACADEMIC SCIENTISTS, PROFESSORS, RESEARCH SCHOLARS AND STUDENTS TO SHARE AND DISSEMINATE INFORMATION ON KNOWLEDGE AND SCIENTIFIC RESEARCH WORKS RELATED TO COMPUTING, NETWORKING, AND INFORMATICS TO DISCUSS THE PRACTICAL CHALLENGES ENCOUNTERED AND THE SOLUTIONS ADOPTED. THE BOOK ALSO PROMOTES TRANSLATION OF BASIC RESEARCH INTO APPLIED INVESTIGATION AND CONVERT APPLIED INVESTIGATION INTO PRACTICE.

MODELING, IDENTIFICATION AND CONTROL METHODS IN RENEWABLE ENERGY SYSTEMS NABIL DERBEL 2018-12-24 MOST OF THE RESEARCH AND EXPERIMENTS IN THE FIELDS OF MODELING AND CONTROL SYSTEMS HAVE SPENT SIGNIFICANT EFFORTS TO FIND RULES FROM VARIOUS COMPLICATED PHENOMENA BY PRINCIPLES, OBSERVATIONS, MEASURED DATA, LOGIC DERIVATIONS. THE RULES ARE NORMALLY SUMMARIZED AS CONCISE AND QUANTITATIVE EXPRESSIONS OR "MODELS". "IDENTIFICATION" PROVIDES MECHANISMS TO ESTABLISH THE MODELS AND "CONTROL" PROVIDES MECHANISMS TO IMPROVE SYSTEM PERFORMANCES. THIS BOOK REFLECTS THE RELEVANT STUDIES AND APPLICATIONS IN THE AREA OF RENEWABLE ENERGIES, WITH THE LATEST RESEARCH FROM INTERDISCIPLINARY THEORETICAL STUDIES, COMPUTATIONAL ALGORITHM DEVELOPMENT TO EXEMPLARY APPLICATIONS. IT DISCUSSES HOW MODELING AND CONTROL METHODS SUCH AS RECURRENT NEURAL NETWORK, PITCH ANGLE CONTROL, FUZZY CONTROL, SLIDING MODE CONTROL AND OTHERS ARE USED IN RENEWABLE SYSTEMS. IT COVERS TOPICS AS PHOTOVOLTAIC SYSTEMS, WIND TURBINES, MAXIMUM POWER POINT TRACKING, BATTERIES FOR RENEWABLE ENERGIES, SOLAR ENERGY, THERMAL ENERGY AND SO ON. THIS BOOK IS EDITED AND WRITTEN BY LEADING EXPERTS IN THE FIELD AND OFFERS AN IDEAL REFERENCE GUIDE FOR RESEARCHERS AND ENGINEERS IN THE FIELDS OF ELECTRICAL/ELECTRONIC ENGINEERING, CONTROL SYSTEM AND ENERGY.

INTEGRATING VISUAL SYSTEM MECHANISMS, COMPUTATIONAL MODELS AND ALGORITHMS/TECHNOLOGIES HEDVA SPITZER 2020-05-26

TECHNOLOGY FOR SEND IN PRIMARY SCHOOLS HELEN CALDWELL 2017-10-23 WITH SO MANY NEW EDUCATION TECHNOLOGIES BEING DEVELOPED AND MADE AVAILABLE TO SCHOOLS, HOW DO TEACHERS ENSURE THEY SELECT RESOURCES THAT ENHANCE

INCLUSIVE TEACHING IN THE CLASSROOM? HOW CAN YOU MAKE SURE NEW TECHNOLOGIES ARE INTEGRATED INTO EVERY DAY TEACHING? THIS NEW TEXT SUPPORTS TRAINEE AND BEGINNING TEACHERS TO HARNESS THE POWER OF TECHNOLOGY TO MAKE THEIR CLASSROOMS TRULY INCLUSIVE. IT HELPS YOU MAKE INFORMED SELECTIONS OF NEW TECHNOLOGY AND RESOURCES AND MAKE THEM WORK FOR EVERYONE IN YOUR CLASSROOM. ALONG WITH CLEAR GUIDANCE ON HOW TO IMPLEMENT AN INCLUSIVE APPROACH TO THE USE OF TECHNOLOGY ACROSS A BROAD RANGE OF NEEDS AND CURRICULUM THEMES, LINKING PRACTICAL EXAMPLES WITH DISCUSSION OF PEDAGOGICAL CONSIDERATIONS THIS PRACTICAL BOOK: FOCUSES ON CUTTING EDGE TECHNOLOGIES SUPPORTS TEACHERS TO DEVELOP THE KNOWLEDGE AND SKILLS THEY NEED OFFERS ADVICE ON HOW TO ASSESS INDIVIDUAL LEARNING AND COMMUNICATION NEEDS DEVELOPS AN UNDERSTANDING OF THE PEDAGOGY NEEDED TO EMBED INCLUSIVE TECHNOLOGY WITHIN WHOLE CLASS TEACHING

ADVANCES IN HIGH PERFORMANCE COMPUTING IVAN DIMOV 2020-08-07 EVERY DAY WE NEED TO SOLVE LARGE PROBLEMS FOR WHICH SUPERCOMPUTERS ARE NEEDED. HIGH PERFORMANCE COMPUTING (HPC) IS A PARADIGM THAT ALLOWS TO EFFICIENTLY IMPLEMENT LARGE-SCALE COMPUTATIONAL TASKS ON POWERFUL SUPERCOMPUTERS UNTHINKABLE WITHOUT OPTIMIZATION. WE TRY TO MINIMIZE OUR EFFORT AND TO MAXIMIZE THE ACHIEVED PROFIT. MANY CHALLENGING REAL WORLD PROBLEMS ARISING IN ENGINEERING, ECONOMICS, MEDICINE AND OTHER AREAS CAN BE FORMULATED AS LARGE-SCALE COMPUTATIONAL TASKS. THE VOLUME IS A COMPREHENSIVE COLLECTION OF EXTENDED CONTRIBUTIONS FROM THE HIGH PERFORMANCE COMPUTING CONFERENCE HELD IN BOROVETS, BULGARIA, SEPTEMBER 2019. THIS BOOK PRESENTS RECENT ADVANCES IN HIGH PERFORMANCE COMPUTING. THE TOPICS OF INTEREST INCLUDED INTO THIS VOLUME ARE: HP SOFTWARE TOOLS, PARALLEL ALGORITHMS AND SCALABILITY, HPC IN BIG DATA ANALYTICS, MODELLING, SIMULATION & OPTIMIZATION IN A DATA RICH ENVIRONMENT, ADVANCED NUMERICAL METHODS FOR HPC, HYBRID PARALLEL OR DISTRIBUTED ALGORITHMS. THE VOLUME IS FOCUSED ON IMPORTANT LARGE-SCALE APPLICATIONS LIKE ENVIRONMENTAL AND CLIMATE MODELING, COMPUTATIONAL CHEMISTRY AND HEURISTIC ALGORITHMS.

HANDBOOK OF COMPUTATIONAL INTELLIGENCE IN BIOMEDICAL ENGINEERING AND HEALTHCARE JANMENJOY NAYAK 2021-04-08 HANDBOOK OF COMPUTATIONAL INTELLIGENCE IN BIOMEDICAL ENGINEERING AND HEALTHCARE HELPS READERS ANALYZE AND CONDUCT ADVANCED RESEARCH IN SPECIALTY HEALTHCARE APPLICATIONS SURROUNDING ONCOLOGY, GENOMICS AND GENETIC DATA, ONTOLOGIES CONSTRUCTION, BIO-MEMETIC SYSTEMS, BIOMEDICAL ELECTRONICS, PROTEIN STRUCTURE PREDICTION, AND BIOMEDICAL DATA ANALYSIS. THE BOOK PROVIDES THE READER WITH A COMPREHENSIVE GUIDE TO ADVANCED COMPUTATIONAL INTELLIGENCE, SPANNING DEEP LEARNING, FUZZY LOGIC, CONNECTIONIST SYSTEMS, EVOLUTIONARY COMPUTATION, CELLULAR AUTOMATA, SELF-ORGANIZING SYSTEMS, SOFT COMPUTING, AND HYBRID INTELLIGENT SYSTEMS IN BIOMEDICAL AND HEALTHCARE APPLICATIONS. SECTIONS FOCUS ON IMPORTANT BIOMEDICAL ENGINEERING APPLICATIONS, INCLUDING BIOSENSORS, ENZYME IMMOBILIZATION TECHNIQUES, IMMUNO-ASSAYS, AND NANOMATERIALS FOR BIOSENSORS AND OTHER BIOMEDICAL TECHNIQUES. OTHER SECTIONS COVER GENE-BASED SOLUTIONS AND APPLICATIONS THROUGH COMPUTATIONAL INTELLIGENCE TECHNIQUES AND THE IMPACT OF NONLINEAR/UNSTRUCTURED DATA ON EXPERIMENTAL ANALYSIS. PRESENTS A COMPREHENSIVE HANDBOOK THAT COVERS AN INTRODUCTION TO COMPUTATIONAL INTELLIGENCE IN BIOMEDICAL ENGINEERING AND HEALTHCARE, COMPUTATIONAL INTELLIGENCE TECHNIQUES, AND ADVANCED AND EMERGING TECHNIQUES IN COMPUTATIONAL INTELLIGENCE HELPS READERS ANALYZE AND DO ADVANCED RESEARCH IN SPECIALTY HEALTHCARE APPLICATIONS INCLUDES LINKS TO WEBSITES, VIDEOS, ARTICLES AND OTHER ONLINE CONTENT TO EXPAND AND SUPPORT PRIMARY LEARNING OBJECTIVES

COMPUTING, COMMUNICATION AND SIGNAL PROCESSING BRIJESH IYER 2018-09-12 THIS BOOK HIGHLIGHTS CUTTING-EDGE RESEARCH ON VARIOUS ASPECTS OF HUMAN-COMPUTER INTERACTION (HCI). IT INCLUDES SELECTED RESEARCH PAPERS PRESENTED AT THE THIRD INTERNATIONAL CONFERENCE ON COMPUTING, COMMUNICATION AND SIGNAL PROCESSING (ICASP 2018), ORGANIZED BY DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY IN LONERE-RAIGAD, INDIA ON JANUARY 26-27, 2018. IT COVERS PIONEERING TOPICS IN THE FIELD OF COMPUTER, ELECTRICAL, AND ELECTRONICS ENGINEERING, E.G. SIGNAL AND IMAGE PROCESSING, RF AND MICROWAVE ENGINEERING, AND EMERGING TECHNOLOGIES SUCH AS IoT, CLOUD COMPUTING, HCI, AND GREEN COMPUTING. AS SUCH, THE BOOK OFFERS A VALUABLE GUIDE FOR ALL SCIENTISTS, ENGINEERS AND RESEARCH STUDENTS IN THE AREAS OF ENGINEERING AND TECHNOLOGY.

ADVANCED SOFT COMPUTING TECHNIQUES IN DATA SCIENCE, IoT AND CLOUD COMPUTING SUJATA DASH

INTELLIGENT TECHNOLOGIES AND APPLICATIONS IMRAN SARWAR BAJWA 2019-03-11 THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE FIRST INTERNATIONAL CONFERENCE ON INTELLIGENT TECHNOLOGIES AND APPLICATIONS, INTAP 2018, HELD IN BAHAWALPUR, PAKISTAN, IN OCTOBER 2018. THE 68 REVISED FULL PAPERS AND 6 REVISED SHORT PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM 251 SUBMISSIONS. THE PAPERS OF THIS VOLUME ARE ORGANIZED IN TOPICAL SECTIONS ON AI AND HEALTH; SENTIMENT ANALYSIS; INTELLIGENT APPLICATIONS; SOCIAL MEDIA ANALYTICS; BUSINESS INTELLIGENCE; NATURAL LANGUAGE PROCESSING; INFORMATION EXTRACTION; MACHINE LEARNING; SMART SYSTEMS; SEMANTIC WEB; DECISION SUPPORT SYSTEMS; IMAGE ANALYSIS; AUTOMATED SOFTWARE ENGINEERING.

ADVANCES IN DATA ANALYSIS WITH COMPUTATIONAL INTELLIGENCE METHODS ADAM E GAW^[?] DA 2017-09-21 THIS BOOK IS A TRIBUTE TO PROFESSOR JACEK ^[?] URADA, WHO IS BEST KNOWN FOR HIS CONTRIBUTIONS TO COMPUTATIONAL INTELLIGENCE AND KNOWLEDGE-BASED NEUROCOMPUTING. IT IS DEDICATED TO PROFESSOR JACEK ^[?] URADA, FULL PROFESSOR AT THE COMPUTATIONAL INTELLIGENCE LABORATORY, DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING, J.B. SPEED SCHOOL OF ENGINEERING, UNIVERSITY OF LOUISVILLE, KENTUCKY, USA, AS A TOKEN OF APPRECIATION FOR HIS SCIENTIFIC AND SCHOLARLY ACHIEVEMENTS, AND FOR HIS LONGSTANDING SERVICE TO MANY COMMUNITIES, NOTABLY THE COMPUTATIONAL INTELLIGENCE COMMUNITY, IN PARTICULAR NEURAL NETWORKS, MACHINE LEARNING, DATA ANALYSES AND DATA MINING, BUT ALSO THE FUZZY LOGIC AND EVOLUTIONARY COMPUTATION COMMUNITIES, TO NAME BUT A FEW. AT THE SAME TIME, THE BOOK RECOGNIZES AND HONORS PROFESSOR ^[?] URADA'S DEDICATION AND SERVICE TO MANY SCIENTIFIC, SCHOLARLY AND PROFESSIONAL SOCIETIES, ESPECIALLY THE IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS), THE WORLD'S LARGEST PROFESSIONAL TECHNICAL PROFESSIONAL ORGANIZATION DEDICATED TO ADVANCING SCIENCE AND TECHNOLOGY IN A BROAD SPECTRUM OF AREAS AND FIELDS. THE VOLUME IS DIVIDED INTO FIVE MAJOR PARTS, THE FIRST OF WHICH ADDRESSES THEORETIC, ALGORITHMIC AND IMPLEMENTATION PROBLEMS RELATED TO THE INTELLIGENT USE OF DATA IN THE SENSE OF HOW TO DERIVE PRACTICALLY USEFUL INFORMATION AND KNOWLEDGE FROM DATA. IN TURN, PART 2 IS DEVOTED TO VARIOUS ASPECTS OF NEURAL NETWORKS AND CONNECTIONIST SYSTEMS. PART 3 DEALS WITH ESSENTIAL TOOLS AND TECHNIQUES FOR INTELLIGENT TECHNOLOGIES IN SYSTEMS MODELING AND PART 4 FOCUSES ON INTELLIGENT TECHNOLOGIES IN DECISION-MAKING, OPTIMIZATION AND CONTROL, WHILE PART 5 EXPLORES THE APPLICATIONS OF INTELLIGENT TECHNOLOGIES.

COMPUTATIONAL METHODS IN SYSTEMS BIOLOGY J^[?] R^[?] ME FERET 2017-09-18 THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL METHODS IN SYSTEMS BIOLOGY, CMSB 2017, HELD IN DARMSTADT, GERMANY, IN SEPTEMBER 2017. THE 15 FULL PAPERS, 4 TOOL PAPERS AND 4 POSTERS PRESENTED TOGETHER WITH 1 INVITED TALK WERE CAREFULLY REVIEWED AND SELECTED FROM 41 REGULAR PAPER SUBMISSIONS. TOPICS OF INTEREST INCLUDE FORMALISMS FOR MODELING BIOLOGICAL PROCESSES; MODELS AND THEIR BIOLOGICAL APPLICATIONS; FRAMEWORKS FOR MODEL VERIFICATION, VALIDATION, ANALYSIS, AND SIMULATION OF BIOLOGICAL SYSTEMS; HIGH-PERFORMANCE COMPUTATIONAL SYSTEMS BIOLOGY AND PARALLEL IMPLEMENTATIONS; MODEL INFERENCE FROM EXPERIMENTAL DATA; MODEL INTEGRATION FROM BIOLOGICAL DATABASES; MULTI-SCALE MODELING AND ANALYSIS METHODS; AND COMPUTATIONAL APPROACHES FOR SYNTHETIC BIOLOGY.

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON TRENDS IN COMPUTATIONAL AND COGNITIVE ENGINEERING M. SHAMIM KAISER 2020-12-16 THIS BOOK PRESENTS VARIOUS COMPUTATIONAL AND COGNITIVE MODELING APPROACHES IN THE AREAS OF HEALTH, EDUCATION, FINANCE, ENVIRONMENT, ENGINEERING, COMMERCE, AND INDUSTRY. IT IS A COLLECTION OF SELECTED CONFERENCE PAPERS PRESENTED AT THE INTERNATIONAL CONFERENCE ON TRENDS IN COMPUTATIONAL AND COGNITIVE ENGINEERING (TCCE 2020). IT SHARES CUTTING-EDGE INSIGHTS AND IDEAS FROM MATHEMATICIANS, ENGINEERS, SCIENTISTS, AND RESEARCHERS AND DISCUSSES FRESH PERSPECTIVES ON PROBLEM SOLVING IN A RANGE OF RESEARCH AREAS.

NUMERICAL METHODS IN SCIENTIFIC COMPUTING: GERMUND DAHLQUIST 2008-09-04 THIS WORK ADDRESSES THE INCREASINGLY IMPORTANT ROLE OF NUMERICAL METHODS IN SCIENCE AND ENGINEERING. IT COMBINES TRADITIONAL AND WELL-DEVELOPED TOPICS WITH OTHER MATERIAL SUCH AS INTERVAL ARITHMETIC, ELEMENTARY FUNCTIONS, OPERATOR SERIES, CONVERGENCE ACCELERATION, AND CONTINUED FRACTIONS.

SOCIAL NETWORKING AND COMPUTATIONAL INTELLIGENCE RAJESH KUMAR SHUKLA 2020-03-21 THIS BOOK PRESENTS A SELECTION OF REVISED AND EXTENDED VERSIONS OF THE BEST PAPERS FROM THE FIRST INTERNATIONAL CONFERENCE ON SOCIAL NETWORKING AND COMPUTATIONAL INTELLIGENCE (SCI-2018), HELD IN BHOPAL, INDIA, FROM OCTOBER 5 TO 6, 2018. IT DISCUSSES RECENT ADVANCES IN SCIENTIFIC DEVELOPMENTS AND APPLICATIONS IN THESE AREAS.

NEXT GENERATION COMPUTING TECHNOLOGIES ON COMPUTATIONAL INTELLIGENCE MANISH PRATEEK 2019-11-23 THE 18 FULL AND 13 SHORT PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM 255 SUBMISSIONS. THERE WERE ORGANIZED IN TOPICAL SECTIONS NAMED: IMAGE PROCESSING, PATTERN ANALYSIS AND MACHINE VISION; INFORMATION AND DATA CONVERGENCE; DISRUPTIVE TECHNOLOGIES FOR FUTURE; E-GOVERNANCE AND SMART WORLD

ADVANCES ON COMPUTATIONAL INTELLIGENCE IN ENERGY TUTUT HERAWAN 2019-07-12 ADDRESSING THE APPLICATIONS OF COMPUTATIONAL INTELLIGENCE ALGORITHMS IN ENERGY, THIS BOOK PRESENTS A SYSTEMATIC PROCEDURE THAT ILLUSTRATES THE PRACTICAL STEPS REQUIRED FOR APPLYING BIO-INSPIRED, META-HEURISTIC ALGORITHMS IN ENERGY, SUCH AS THE PREDICTION OF OIL CONSUMPTION AND OTHER ENERGY PRODUCTS. CONTRIBUTIONS INCLUDE RESEARCH FINDINGS, PROJECTS, SURVEYING WORK AND INDUSTRIAL EXPERIENCES THAT DESCRIBE SIGNIFICANT ADVANCES IN THE APPLICATIONS OF COMPUTATIONAL INTELLIGENCE

ALGORITHMS IN ENERGY. FOR EASY UNDERSTANDING, THE TEXT PROVIDES PRACTICAL SIMULATION RESULTS, CONVERGENCE AND LEARNING CURVES AS WELL AS ILLUSTRATIONS AND TABLES. PROVIDING A VALUABLE RESOURCE FOR UNDERGRADUATE AND POSTGRADUATE STUDENTS ALIKE, IT IS ALSO INTENDED FOR RESEARCHERS IN THE FIELDS OF COMPUTATIONAL INTELLIGENCE AND ENERGY.

EMPOWERING ARTIFICIAL INTELLIGENCE THROUGH MACHINE LEARNING NEDUNCHEZHIAN RAJU 2022-06-16 THIS NEW VOLUME, EMPOWERING ARTIFICIAL INTELLIGENCE THROUGH MACHINE LEARNING: NEW ADVANCES AND APPLICATIONS, DISCUSSES VARIOUS NEW APPLICATIONS OF MACHINE LEARNING, A SUBSET OF THE FIELD OF ARTIFICIAL INTELLIGENCE. ARTIFICIAL INTELLIGENCE IS CONSIDERED TO BE THE NEXT-BIG-GAME CHANGER IN RESEARCH AND TECHNOLOGY, THE VOLUME LOOKS AT HOW COMPUTING HAS ENABLED MACHINES TO LEARN, MAKING MACHINE AND TOOLS BECOME SMARTER IN MANY SECTORS, INCLUDING SCIENCE AND ENGINEERING, HEALTHCARE, FINANCE, EDUCATION, GAMING, SECURITY, AND EVEN AGRICULTURE, PLUS MANY MORE AREAS. TOPICS INCLUDE TECHNIQUES AND METHODS IN ARTIFICIAL INTELLIGENCE FOR MAKING MACHINES INTELLIGENT, MACHINE LEARNING IN HEALTHCARE, USING MACHINE LEARNING FOR CREDIT CARD FRAUD DETECTION, USING ARTIFICIAL INTELLIGENCE IN EDUCATION USING GAMING AND AUTOMATIZATION WITH COURSES AND OUTCOMES MAPPING, AND MUCH MORE. THE BOOK WILL BE VALUABLE TO PROFESSIONALS, FACULTY, AND STUDENTS IN ELECTRONICS AND COMMUNICATION ENGINEERING, TELECOMMUNICATION ENGINEERING, NETWORK ENGINEERING, COMPUTER SCIENCE AND INFORMATION TECHNOLOGY.

MULTIMEDIA BIG DATA COMPUTING FOR IOT APPLICATIONS SUDEEP TANWAR 2019-07-17 THIS BOOK CONSIDERS ALL ASPECTS OF MANAGING THE COMPLEXITY OF MULTIMEDIA BIG DATA COMPUTING (MMBD) FOR IOT APPLICATIONS AND DEVELOPS A COMPREHENSIVE TAXONOMY. IT ALSO DISCUSSES A PROCESS MODEL THAT ADDRESSES A NUMBER OF RESEARCH CHALLENGES ASSOCIATED WITH MMBD, SUCH AS SCALABILITY, ACCESSIBILITY, RELIABILITY, HETEROGENEITY, AND QUALITY OF SERVICE (QoS) REQUIREMENTS, PRESENTING CASE STUDIES TO DEMONSTRATE ITS APPLICATION. FURTHER, THE BOOK EXAMINES THE LAYERED ARCHITECTURE OF MMBD COMPUTING AND COMPARES THE LIFE CYCLE OF BOTH BIG DATA AND MMBD. WRITTEN BY LEADING EXPERTS, IT ALSO INCLUDES NUMEROUS SOLVED EXAMPLES, TECHNICAL DESCRIPTIONS, SCENARIOS, PROCEDURES, AND ALGORITHMS.

ADVANCES IN COMPUTER SCIENCE AND UBIQUITOUS COMPUTING JAMES J. PARK 2019-12-03 THIS BOOK PRESENTS THE COMBINED PROCEEDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND ITS APPLICATIONS (CSA 2018) AND THE 13TH KIPS INTERNATIONAL CONFERENCE ON UBIQUITOUS INFORMATION TECHNOLOGIES AND APPLICATIONS (CUTE 2018), BOTH HELD IN KUALA LUMPUR, MALAYSIA, DEC 17 - 19, 2018. THE AIM OF THESE TWO MEETINGS WAS TO PROMOTE DISCUSSION AND INTERACTION AMONG ACADEMICS, RESEARCHERS AND PROFESSIONALS IN THE FIELD OF UBIQUITOUS COMPUTING TECHNOLOGIES. THESE PROCEEDINGS REFLECT THE STATE OF THE ART IN THE DEVELOPMENT OF COMPUTATIONAL METHODS, INVOLVING THEORY, ALGORITHMS, NUMERICAL SIMULATION, ERROR AND UNCERTAINTY ANALYSIS AND NOVEL APPLICATIONS OF NEW PROCESSING TECHNIQUES IN ENGINEERING, SCIENCE, AND OTHER DISCIPLINES RELATED TO UBIQUITOUS COMPUTING.

SMART INNOVATIONS IN COMMUNICATION AND COMPUTATIONAL SCIENCES SHAILESH TIWARI 2018-11-19 THE BOOK PRESENTS THE LATEST ADVANCES AND RESEARCH FINDINGS IN THE FIELDS OF COMPUTATIONAL SCIENCE AND COMMUNICATION. THE AREAS COVERED INCLUDE SMART INNOVATION; SYSTEMS AND TECHNOLOGIES; EMBEDDED KNOWLEDGE AND INTELLIGENCE; INNOVATION AND SUSTAINABILITY; ADVANCED COMPUTING; AND NETWORKING AND INFORMATICS. IT ALSO FOCUSES ON THE KNOWLEDGE-TRANSFER METHODOLOGIES AND THE INNOVATION STRATEGIES EMPLOYED TO MAKE THESE EFFECTIVE. THIS FASCINATING COMPILATION APPEALS TO RESEARCHERS, ACADEMICS AND ENGINEERS AROUND THE GLOBE.

INTELLIGENT COMPUTING TECHNIQUES FOR SMART ENERGY SYSTEMS ANSHUMAN TRIPATHI 2022-06-13 THIS BOOK COMPILES THE BEST SELECTED RESEARCH PAPERS PRESENTED DURING THE 2ND INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING TECHNIQUES FOR SMART ENERGY SYSTEMS (ICTSES 2021), HELD AT MANIPAL UNIVERSITY, JAIPUR, RAJASTHAN, INDIA. IT PRESENTS THE DILIGENT WORK OF THE RESEARCH COMMUNITY WHERE INTELLIGENT COMPUTING TECHNIQUES ARE APPLIED IN ALLIED FIELDS OF ENGINEERING RANGING FROM ENGINEERING MATERIALS TO ELECTRICAL ENGINEERING TO ELECTRONICS AND COMMUNICATION ENGINEERING- TO COMPUTER-RELATED FIELDS. THE THEORETICAL RESEARCH CONCEPTS ARE SUPPORTED WITH EXTENSIVE REVIEWS HIGHLIGHTING THE TRENDS IN THE POSSIBLE AND REAL-LIFE APPLICATIONS OF COMPUTATIONAL INTELLIGENCE. THE HIGH-QUALITY CONTENT WITH BROAD RANGE OF THE TOPICS IS THOROUGHLY PEER-REVIEWED AND PUBLISHED ON SUITABLE RECOMMENDATIONS.

COMPUTER NETWORKS AND INVENTIVE COMMUNICATION TECHNOLOGIES S. SMYS 2021-06-02 THIS BOOK IS A COLLECTION OF PEER-REVIEWED BEST SELECTED RESEARCH PAPERS PRESENTED AT 3RD INTERNATIONAL CONFERENCE ON COMPUTER NETWORKS AND INVENTIVE COMMUNICATION TECHNOLOGIES (ICCNCT 2020). THE BOOK COVERS NEW RESULTS IN THEORY, METHODOLOGY, AND APPLICATIONS OF COMPUTER NETWORKS AND DATA COMMUNICATIONS. IT INCLUDES ORIGINAL PAPERS ON COMPUTER NETWORKS, NETWORK PROTOCOLS AND WIRELESS NETWORKS, DATA COMMUNICATION TECHNOLOGIES, AND NETWORK SECURITY. THE

PROCEEDINGS OF THIS CONFERENCE IS A VALUABLE RESOURCE, DEALING WITH BOTH THE IMPORTANT CORE AND THE SPECIALIZED ISSUES IN THE AREAS OF NEXT GENERATION WIRELESS NETWORK DESIGN, CONTROL, AND MANAGEMENT, AS WELL AS IN THE AREAS OF PROTECTION, ASSURANCE, AND TRUST IN INFORMATION SECURITY PRACTICE. IT IS A REFERENCE FOR RESEARCHERS, INSTRUCTORS, STUDENTS, SCIENTISTS, ENGINEERS, MANAGERS, AND INDUSTRY PRACTITIONERS FOR ADVANCE WORK IN THE AREA.

ADVANCES IN COMPUTATIONAL INTELLIGENCE TECHNIQUES SHRUTI JAIN 2020-02-20 THIS BOOK HIGHLIGHTS RECENT ADVANCES IN COMPUTATIONAL INTELLIGENCE FOR SIGNAL PROCESSING, COMPUTING, IMAGING, ARTIFICIAL INTELLIGENCE, AND THEIR APPLICATIONS. IT OFFERS SUPPORT FOR RESEARCHERS INVOLVED IN DESIGNING DECISION SUPPORT SYSTEMS TO PROMOTE THE SOCIETAL ACCEPTANCE OF AMBIENT INTELLIGENCE, AND PRESENTS THE LATEST RESEARCH ON DIVERSE TOPICS IN INTELLIGENCE TECHNOLOGIES WITH THE GOAL OF ADVANCING KNOWLEDGE AND APPLICATIONS IN THIS RAPIDLY EVOLVING FIELD. AS SUCH, IT OFFERS A VALUABLE RESOURCE FOR RESEARCHERS, DEVELOPERS AND EDUCATORS WHOSE WORK INVOLVES RECENT ADVANCES AND EMERGING TECHNOLOGIES IN COMPUTATIONAL INTELLIGENCE.

ADVANCES IN COMMUNICATION AND COMPUTATIONAL TECHNOLOGY GURDEEP SINGH HURA 2020-08-13 THIS BOOK PRESENTS HIGH-QUALITY PEER-REVIEWED PAPERS FROM THE INTERNATIONAL CONFERENCE ON ADVANCED COMMUNICATION AND COMPUTATIONAL TECHNOLOGY (ICACCT) 2019 HELD AT THE NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA, INDIA. THE CONTENTS ARE BROADLY DIVIDED INTO FOUR PARTS: (i) ADVANCED COMPUTING, (ii) COMMUNICATION AND NETWORKING, (iii) VLSI AND EMBEDDED SYSTEMS, AND (iv) OPTIMIZATION TECHNIQUES. THE MAJOR FOCUS IS ON EMERGING COMPUTING TECHNOLOGIES AND THEIR APPLICATIONS IN THE DOMAIN OF COMMUNICATION AND NETWORKING. THE BOOK WILL PROVE USEFUL FOR ENGINEERS AND RESEARCHERS WORKING ON PHYSICAL, DATA LINK AND TRANSPORT LAYERS OF COMMUNICATION PROTOCOLS. ALSO, THIS WILL BE USEFUL FOR INDUSTRY PROFESSIONALS INTERESTED IN MANUFACTURING OF COMMUNICATION DEVICES, MODEMS, ROUTERS ETC. WITH ENHANCED COMPUTATIONAL AND DATA HANDLING CAPACITIES.