

Pattern Analysis Intelligent Security And The Internet Of Things Advances In Intelligent Systems And Computing

YEAH, REVIEWING A EBOOK **PATTERN ANALYSIS INTELLIGENT SECURITY AND THE INTERNET OF THINGS ADVANCES IN INTELLIGENT SYSTEMS AND COMPUTING** COULD BE CREDITED WITH YOUR CLOSE CONTACTS LISTINGS. THIS IS JUST ONE OF THE SOLUTIONS FOR YOU TO BE SUCCESSFUL. AS UNDERSTOOD, TALENT DOES NOT RECOMMEND THAT YOU HAVE FABULOUS POINTS.

COMPREHENDING AS CAPABLY AS PACT EVEN MORE THAN SUPPLEMENTARY WILL PAY FOR EACH SUCCESS. NEIGHBORING TO, THE DECLARATION AS WELL AS ACUTENESS OF THIS PATTERN ANALYSIS INTELLIGENT SECURITY AND THE INTERNET OF THINGS ADVANCES IN INTELLIGENT SYSTEMS AND COMPUTING CAN BE TAKEN AS CAPABLY AS PICKED TO ACT.

INFORMATION TECHNOLOGY AS A FACILITATOR OF SOCIAL PROCESSES IN PROJECT MANAGEMENT AND COLLABORATIVE WORK - BAGWELL, TIMOTHY C. 2018-06-08
PROJECT MANAGEMENT (PM), AS A DISCIPLINE, HAS BEEN UNDERGOING AN INCREMENTAL INCLUSION OF THEORIES, TECHNIQUES, AND PROCESSES FROM FIELDS RELATED TO ORGANIZATIONAL BEHAVIOR. PARALLEL TO THIS HAS BEEN THE DOMINANCE OF INFORMATION TECHNOLOGY (IT) PROJECTS WITHIN THE FIELD OF PROJECT MANAGEMENT. INFORMATION TECHNOLOGY AS A FACILITATOR OF SOCIAL PROCESSES IN PROJECT MANAGEMENT AND COLLABORATIVE WORK PROVIDES EMERGING RESEARCH THAT BRIDGES THE GAP BETWEEN IT AND PROJECT MANAGEMENT. WHILE HIGHLIGHTING THE IMPORTANCE OF INFORMATION TECHNOLOGY AND THE SOCIAL PROCESS OF WORK, THE READERS WILL LEARN HOW PROJECT MANAGEMENT APPLIES TECHNIQUES TO ACHIEVE OBJECTIVES THROUGH IT PROJECTS. THIS BOOK IS AN IMPORTANT RESOURCE FOR PROJECT MANAGERS, EXECUTIVES, IT MANAGERS, CONSULTANTS, STUDENTS, AND EDUCATORS.

NEW ADVANCES IN INTELLIGENCE AND SECURITY INFORMATICS - WENJI MAO 2012-04-16
THE INTELLIGENT SYSTEMS SERIES COMPRISES TITLES THAT PRESENT STATE OF THE ART KNOWLEDGE AND THE LATEST ADVANCES IN INTELLIGENT SYSTEMS. ITS SCOPE INCLUDES THEORETICAL STUDIES, DESIGN METHODS, AND REAL-WORLD IMPLEMENTATIONS AND APPLICATIONS. TRADITIONALLY, INTELLIGENCE AND SECURITY INFORMATICS (ISI) RESEARCH AND APPLICATIONS HAVE FOCUSED ON INFORMATION SHARING AND DATA MINING, SOCIAL NETWORK ANALYSIS, INFRASTRUCTURE PROTECTION AND EMERGENCY RESPONSES FOR SECURITY INFORMATICS. WITH THE CONTINUOUS ADVANCE OF IT TECHNOLOGIES AND THE INCREASING SOPHISTICATION OF NATIONAL AND INTERNATIONAL SECURITY, IN RECENT YEARS, NEW DIRECTIONS IN ISI RESEARCH AND APPLICATIONS HAVE EMERGED TO ADDRESS COMPLICATED PROBLEMS WITH ADVANCED TECHNOLOGIES. THIS BOOK PROVIDES A COMPREHENSIVE AND INTERDISCIPLINARY ACCOUNT OF THE NEW ADVANCES IN ISI AREA ALONG THREE FUNDAMENTAL DIMENSIONS: METHODOLOGICAL ISSUES IN SECURITY INFORMATICS; NEW TECHNOLOGICAL DEVELOPMENTS TO SUPPORT SECURITY-RELATED MODELING, DETECTION, ANALYSIS AND PREDICTION; AND APPLICATIONS AND INTEGRATION IN INTERDISCIPLINARY SOCIO-CULTURAL FIELDS. IDENTIFIES EMERGING DIRECTIONS IN ISI RESEARCH AND APPLICATIONS THAT ADDRESS THE RESEARCH CHALLENGES WITH ADVANCED TECHNOLOGIES PROVIDES AN INTEGRATED ACCOUNT OF THE NEW ADVANCES IN ISI FIELD IN THREE CORE ASPECTS: METHODOLOGY, TECHNOLOGICAL DEVELOPMENTS AND APPLICATIONS BENEFITS RESEARCHERS AS WELL AS SECURITY PROFESSIONALS WHO ARE INVOLVED IN CUTTING-EDGE RESEARCH AND APPLICATIONS IN SECURITY INFORMATICS AND RELATED FIELDS

COMPUTER-AIDED INTELLIGENT RECOGNITION TECHNIQUES AND APPLICATIONS - DR. MUHAMMAD SARFRAZ 2005-11-01
INTELLIGENT RECOGNITION METHODS HAVE RECENTLY PROVEN TO BE INDISPENSABLE IN A VARIETY OF MODERN INDUSTRIES, INCLUDING COMPUTER VISION, ROBOTICS, MEDICAL IMAGING, VISUALIZATION AND THE MEDIA. FURTHERMORE, THEY PLAY A CRITICAL ROLE IN THE TRADITIONAL FIELDS SUCH AS CHARACTER RECOGNITION, NATURAL LANGUAGE PROCESSING AND PERSONAL IDENTIFICATION. THIS CUTTING-EDGE BOOK DRAWS TOGETHER THE LATEST FINDINGS OF INDUSTRY EXPERTS AND RESEARCHERS FROM AROUND THE GLOBE. IT IS A TIMELY GUIDE FOR ALL THOSE REQUIRE COMPREHENSIVE, STATE-OF-THE-ART ADVICE ON THE PRESENT STATUS AND FUTURE POTENTIAL OF INTELLIGENT RECOGNITION TECHNOLOGY. **COMPUTER-AIDED INTELLIGENT RECOGNITION TECHNIQUES AND APPLICATIONS**: PROVIDES THE USER COMMUNITY WITH SYSTEMS AND TOOLS FOR APPLICATION IN A VERY WIDE RANGE OF AREAS, INCLUDING: IT, EDUCATION, SECURITY, BANKING, POLICE, POSTAL SERVICES, MANUFACTURING, MINING, MEDICINE, MULTIMEDIA, ENTERTAINMENT, COMMUNICATIONS, DATA VISUALIZATION, KNOWLEDGE EXTRACTION, PATTERN CLASSIFICATION AND VIRTUAL REALITY. DISSEMINATES INFORMATION IN A PLETHORA OF DISCIPLINES, FOR EXAMPLE PATTERN RECOGNITION, AI, IMAGE PROCESSING, COMPUTER VISION AND GRAPHICS, NEURAL NETWORKS, CRYPTOGRAPHY, FUZZY LOGIC, DATABASES, EVOLUTIONARY ALGORITHMS, SHAPE AND NUMERICAL ANALYSIS. ILLUSTRATES ALL THEORY WITH REAL-WORLD EXAMPLES AND CASE STUDIES. THIS VALUABLE RESOURCE IS ESSENTIAL READING FOR COMPUTER SCIENTISTS, ENGINEERS, AND CONSULTANTS REQUIRING UP-TO-DATE COMPREHENSIVE GUIDANCE ON THE LATEST DEVELOPMENTS IN COMPUTER-AIDED INTELLIGENT RECOGNITION TECHNIQUES AND APPLICATIONS. ITS DETAILED, PRACTICAL APPROACH WILL BE OF INTEREST TO SENIOR UNDERGRADUATE AND GRADUATE STUDENTS AS WELL AS RESEARCHERS AND INDUSTRY EXPERTS IN THE FIELD OF INTELLIGENT RECOGNITION.

INTERNET OF THINGS AND INTER-COOPERATIVE COMPUTATIONAL TECHNOLOGIES FOR COLLECTIVE INTELLIGENCE - NIK BESSIS 2012-12-14

OVER THE PAST TWO DECADES, WE HAVE WITNESSED UNPRECEDENTED INNOVATIONS IN THE DEVELOPMENT OF MINIATURIZED ELECTROMECHANICAL DEVICES AND LOW-POWER WIRELESS COMMUNICATION MAKING PRACTICAL THE EMBEDDING OF NETWORKED COMPUTATIONAL DEVICES INTO A RAPIDLY WIDENING RANGE OF MATERIAL ENTITIES. THIS TREND HAS ENABLED THE COUPLING OF PHYSICAL OBJECTS AND DIGITAL INFORMATION INTO CYBER-PHYSICAL SYSTEMS AND IT IS WIDELY EXPECTED TO REVOLUTIONIZE THE WAY RESOURCE COMPUTATIONAL CONSUMPTION AND PROVISION WILL OCCUR. SPECIFICALLY, ONE OF THE CORE INGREDIENTS OF THIS VISION, THE SO-CALLED INTERNET OF THINGS (IoT), DEMANDS THE PROVISION OF NETWORKED SERVICES TO SUPPORT INTERACTION BETWEEN CONVENTIONAL IT SYSTEMS WITH BOTH PHYSICAL AND ARTIFICIAL OBJECTS. IN THIS WAY, IoT IS SEEN AS A COMBINATION OF SEVERAL EMERGING TECHNOLOGIES, WHICH ENABLES THE TRANSFORMATION OF EVERYDAY OBJECTS INTO SMART OBJECTS. IT IS ALSO PERCEIVED AS A

PARADIGM THAT CONNECTS REAL WORLD WITH DIGITAL WORLD. THE FOCUS OF THIS BOOK IS EXACTLY ON THE NOVEL COLLECTIVE AND COMPUTATIONAL INTELLIGENCE TECHNOLOGIES THAT WILL BE REQUIRED TO ACHIEVE THIS GOAL. WHILE, ONE OF THE AIMS OF THIS BOOK IS TO DISCUSS THE PROGRESS MADE, IT ALSO PROMPTS FUTURE DIRECTIONS ON THE UTILIZATION OF INTER-OPERABLE AND COOPERATIVE NEXT GENERATION COMPUTATIONAL TECHNOLOGIES, WHICH SUPPORTS THE IoT APPROACH, THAT BEING AN ADVANCED FUNCTIONING TOWARDS AN INTEGRATED COLLECTIVE INTELLIGENCE APPROACH FOR THE BENEFIT OF VARIOUS ORGANIZATIONAL SETTINGS.

NETWORK BEHAVIOR ANALYSIS - KUAI XU 2021-12-15

THIS BOOK PROVIDES A COMPREHENSIVE OVERVIEW OF NETWORK BEHAVIOR ANALYSIS THAT MINES INTERNET TRAFFIC DATA IN ORDER TO EXTRACT, MODEL, AND MAKE SENSE OF BEHAVIORAL PATTERNS IN INTERNET "OBJECTS" SUCH AS END HOSTS, SMARTPHONES, INTERNET OF THINGS, AND APPLICATIONS. THE OBJECTIVE OF THIS BOOK IS TO FILL THE BOOK PUBLICATION GAP IN NETWORK BEHAVIOR ANALYSIS, WHICH HAS RECENTLY BECOME AN INCREASINGLY IMPORTANT COMPONENT OF COMPREHENSIVE NETWORK SECURITY SOLUTIONS FOR DATA CENTER NETWORKS, BACKBONE NETWORKS, ENTERPRISE NETWORKS, AND EDGE NETWORKS. THE BOOK PRESENTS FUNDAMENTAL PRINCIPLES AND BEST PRACTICES FOR MEASURING, EXTRACTING, MODELING AND ANALYZING NETWORK BEHAVIOR FOR END HOSTS AND APPLICATIONS ON THE BASIS OF INTERNET TRAFFIC DATA. IN ADDITION, IT EXPLAINS THE CONCEPT AND KEY ELEMENTS (E.G., WHAT, WHO, WHERE, WHEN, AND WHY) OF COMMUNICATION PATTERNS AND NETWORK BEHAVIOR OF END HOSTS AND NETWORK APPLICATIONS, DRAWING ON DATA MINING, MACHINE LEARNING, INFORMATION THEORY, PROBABILISTIC GRAPHICAL AND STRUCTURAL MODELING TO DO SO. THE BOOK ALSO DISCUSSES THE BENEFITS OF NETWORK BEHAVIOR ANALYSIS FOR APPLICATIONS IN CYBERSECURITY MONITORING, INTERNET TRAFFIC PROFILING, ANOMALY TRAFFIC DETECTION, AND EMERGING APPLICATION DETECTIONS. THE BOOK WILL BE OF PARTICULAR INTEREST TO RESEARCHERS AND PRACTITIONERS IN THE FIELDS OF INTERNET MEASUREMENT, TRAFFIC ANALYSIS, AND CYBERSECURITY, SINCE IT PROVIDES A SPECTRUM OF INNOVATIVE TECHNIQUES FOR SUMMARIZING BEHAVIOR MODELS, STRUCTURAL MODELS, AND GRAPHIC MODELS OF INTERNET TRAFFIC, AND EXPLAINS HOW TO LEVERAGE THE RESULTS FOR A BROAD RANGE OF REAL-WORLD APPLICATIONS IN NETWORK MANAGEMENT, SECURITY OPERATIONS, AND CYBER-INTELLIGENT ANALYSIS. AFTER FINISHING THIS BOOK, READERS WILL 1) HAVE LEARNED THE PRINCIPLES AND PRACTICES OF MEASURING, MODELING, AND ANALYZING NETWORK BEHAVIOR ON THE BASIS OF MASSIVE INTERNET TRAFFIC DATA; 2) BE ABLE TO MAKE SENSE OF NETWORK BEHAVIOR FOR A SPECTRUM OF APPLICATIONS RANGING FROM CYBERSECURITY AND NETWORK MONITORING TO EMERGING APPLICATION DETECTION; AND 3) UNDERSTAND HOW TO EXPLORE NETWORK BEHAVIOR ANALYSIS TO COMPLEMENT TRADITIONAL PERIMETER-BASED FIREWALL AND INTRUSION DETECTION SYSTEMS IN ORDER TO DETECT UNUSUAL TRAFFIC PATTERNS OR ZERO-DAY SECURITY THREATS USING DATA MINING AND MACHINE LEARNING TECHNIQUES. TO IDEALLY BENEFIT FROM THIS BOOK, READERS SHOULD HAVE A BASIC GRASP OF TCP/IP PROTOCOLS, DATA PACKETS, NETWORK FLOWS, AND INTERNET APPLICATIONS.

TRENDS IN COMPUTATIONAL INTELLIGENCE, SECURITY AND INTERNET OF THINGS - NIRMALYA KAR 2020-12-29

THIS VOLUME CONSTITUTES THE REFEREED PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE, SECURITY AND INTERNET OF THINGS, ICCISIoT 2020, HELD IN AGARTALA, INDIA, IN DECEMBER 2020. DUE TO THE COVID-19 PANDEMIC THE CONFERENCE WAS HELD ONLINE. THE 23 FULL PAPERS AND 4 SHORT PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 113 SUBMISSIONS. THE PAPERS ARE ORGANISED ACCORDING TO THE FOLLOWING TOPICS: COMPUTATIONAL INTELLIGENCE, SECURITY, AND INTERNET OF THINGS.

A FUSION OF ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS FOR EMERGING CYBER SYSTEMS - PARDEEP KUMAR 2021-08-23

THIS BOOK AIMS AT OFFERING A UNIQUE COLLECTION OF IDEAS AND EXPERIENCES MAINLY FOCUSING ON THE MAIN STREAMS AND MERGER OF ARTIFICIAL INTELLIGENCE (AI) AND THE INTERNET OF THINGS (IoT) FOR A WIDE SLICE OF THE COMMUNICATION AND NETWORKING COMMUNITY. IN THE ERA WHEN THE WORLD IS GRAPPLING WITH MANY UNFORESEEN CHALLENGES, SCIENTISTS AND RESEARCHERS ARE ENVISIONING SMART CYBER SYSTEMS THAT GUARANTEE SUSTAINABLE DEVELOPMENT FOR A BETTER HUMAN LIFE. THE MAIN CONTRIBUTORS THAT DESTINED TO PLAY A HUGE ROLE IN DEVELOPING SUCH SYSTEMS, AMONG OTHERS, ARE AI AND IoT. WHILE AI PROVIDES INTELLIGENCE TO MACHINES AND DATA BY IDENTIFYING PATTERNS, DEVELOPING PREDICTIONS, AND DETECTING ANOMALIES, IoT PERFORMS AS A NERVE SYSTEM BY CONNECTING A HUGE NUMBER OF MACHINES AND CAPTURING AN ENORMOUS AMOUNT OF DATA. AI-ENABLED IoT, THEREFORE, REDEFINES THE WAY INDUSTRIES, BUSINESSES, AND ECONOMIES FUNCTION WITH INCREASED AUTOMATION AND EFFICIENCY AND REDUCED HUMAN INTERACTION AND COSTS. THIS BOOK IS AN ATTEMPT TO PUBLISH INNOVATIVE IDEAS, EMERGING TRENDS, IMPLEMENTATION EXPERIENCE, AND USE-CASES PERTAINING TO THE MERGER OF AI AND IoT. THE PRIMARY MARKET OF THIS BOOK IS CENTERED AROUND STUDENTS, RESEARCHERS, ACADEMICIANS, INDUSTRIALISTS, ENTREPRENEURS, AND PROFESSIONALS WORKING IN ELECTRICAL/COMPUTER ENGINEERING, IT, TELECOM/ELECTRONIC ENGINEERING, AND RELATED FIELDS. THE SECONDARY MARKET OF THIS BOOK IS RELATED TO INDIVIDUALS WORKING IN THE FIELDS SUCH AS FINANCE, MANAGEMENT, MATHEMATICS, PHYSICS, ENVIRONMENT, MECHATRONICS, AND THE AUTOMATION INDUSTRY.

BLOCKCHAIN, ARTIFICIAL INTELLIGENCE, AND THE INTERNET OF THINGS - PETHURU RAJ

2021-11-22

THIS BOOK PROVIDES BASIC CONCEPTS AND DEEP KNOWLEDGE ABOUT VARIOUS SECURITY MECHANISMS THAT CAN BE IMPLEMENTED IN IoT THROUGH BLOCKCHAIN TECHNOLOGY. THIS BOOK AIDS READERS IN GAINING INSIGHT AND KNOWLEDGE ABOUT PROVIDING SECURITY AND SOLUTIONS TO DIFFERENT CHALLENGES IN IoT USING BLOCKCHAIN TECHNOLOGY. THIS BOOK PRIMARILY FOCUSES ON CHALLENGES TO ADDRESSING THE INTEGRATION OF THE IoT WITH BLOCKCHAIN WITH RESPECT TO POTENTIAL BENEFITS FOR IoT. THIS BOOK GIVES DESCRIPTIVE ANALYSIS OF BLOCKCHAIN INTEGRATED WITH IoT APPLICATIONS AND PLATFORMS FOR THE DEVELOPMENT OF IoT SOLUTIONS ALONG WITH POSSIBLE TOPOLOGIES TO THAT INTEGRATION. SEVERAL APPLICATION EXAMPLES ARE INCLUDED IN A VARIETY OF INDUSTRIES.

TECHNOLOGICAL INNOVATION FOR RESILIENT SYSTEMS - LUIS M. CAMARINHA-MATOS
2018-04-23

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 9TH IFIP WG 5.5/SOCOLNET ADVANCED DOCTORAL CONFERENCE ON COMPUTING, ELECTRICAL AND INDUSTRIAL SYSTEMS, DoCEIS 2018, HELD IN COSTA DE CAPARICA, PORTUGAL, IN MAY 2018. THE 30 REVISED FULL PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM 74 SUBMISSIONS. THE PAPERS PRESENT SELECTED RESULTS PRODUCED IN ENGINEERING DOCTORAL PROGRAMS AND FOCUS ON TECHNOLOGICAL INNOVATION FOR RESILIENT SYSTEMS. RESEARCH RESULTS AND ONGOING WORK ARE PRESENTED, ILLUSTRATED AND DISCUSSED IN THE FOLLOWING AREAS: COLLABORATIVE SYSTEMS, DECISION SUPPORT SYSTEMS, SUPERVISION SYSTEMS, ENERGY MANAGEMENT, SMART GRIDS, SENSING SYSTEMS, ELECTRICAL SYSTEMS, SIMULATION AND ANALYSIS, MONITORING SYSTEMS, AND ENERGY DISTRIBUTION SYSTEMS.

RESEARCH AND EVIDENCE IN SOFTWARE ENGINEERING - VARUN GUPTA 2021-06-16

RESEARCH AND EVIDENCE IN SOFTWARE ENGINEERING: FROM EMPIRICAL STUDIES TO OPEN SOURCE ARTIFACTS INTRODUCES ADVANCED SOFTWARE ENGINEERING TO SOFTWARE ENGINEERS, SCIENTISTS, POSTDOCTORAL RESEARCHERS, ACADEMICIANS, SOFTWARE CONSULTANTS, MANAGEMENT EXECUTIVES, DOCTORAL STUDENTS, AND ADVANCED LEVEL POSTGRADUATE COMPUTER SCIENCE STUDENTS. THIS BOOK CONTAINS RESEARCH ARTICLES ADDRESSING NUMEROUS SOFTWARE ENGINEERING RESEARCH CHALLENGES ASSOCIATED WITH VARIOUS SOFTWARE DEVELOPMENT-RELATED ACTIVITIES, INCLUDING PROGRAMMING, TESTING, MEASUREMENTS, HUMAN FACTORS (SOCIAL SOFTWARE ENGINEERING), SPECIFICATION, QUALITY, PROGRAM ANALYSIS, SOFTWARE PROJECT MANAGEMENT, AND MORE. IT PROVIDES RELEVANT THEORETICAL FRAMEWORKS, EMPIRICAL RESEARCH FINDINGS, AND EVALUATED SOLUTIONS ADDRESSING THE RESEARCH CHALLENGES ASSOCIATED WITH THE ABOVE-MENTIONED SOFTWARE ENGINEERING ACTIVITIES. TO FOSTER COLLABORATION AMONG THE SOFTWARE ENGINEERING RESEARCH COMMUNITY, THIS BOOK ALSO REPORTS DATASETS ACQUIRED SYSTEMATICALLY THROUGH SCIENTIFIC METHODS AND RELATED TO VARIOUS SOFTWARE ENGINEERING ASPECTS THAT ARE VALUABLE TO THE RESEARCH COMMUNITY. THESE DATASETS WILL ALLOW OTHER RESEARCHERS TO USE THEM IN THEIR RESEARCH, THUS IMPROVING THE QUALITY OF OVERALL RESEARCH. THE KNOWLEDGE DISSEMINATED BY THE RESEARCH STUDIES CONTAINED IN THE BOOK WILL HOPEFULLY MOTIVATE OTHER RESEARCHERS TO FURTHER INNOVATION IN THE WAY SOFTWARE DEVELOPMENT HAPPENS IN REAL PRACTICE.

GLOBAL PERSPECTIVES ON FOSTERING PROBLEM-BASED LEARNING IN CHINESE UNIVERSITIES - ZHU, ZHILIANG 2019-05-03

FUTURE GENERATIONS ARE BEING FACED WITH THE POTENTIAL CHALLENGE OF HAVING TO SOLVE PROFESSIONAL PROBLEMS IN A HYBRID WORLD IN WHICH THERE IS NO CLEAR BOUNDARY BETWEEN AUTONOMOUS, NON-HUMAN NATURE, AND HUMAN-GENERATED PROCESSES. THIS REQUIRES YOUNG STUDENTS TO EFFECTIVELY PREPARE THEMSELVES FOR MANAGING ISSUES OF COMPLEXITY, UNCERTAINTY, AND AMBIGUITY IN THEIR PROFESSIONAL PRACTICE. GLOBAL PERSPECTIVES ON FOSTERING PROBLEM-BASED LEARNING IN CHINESE UNIVERSITIES IS A COMPREHENSIVE REFERENCE SOURCE THAT PROVIDES INSIGHT INTO THE GROWING NEED FOR PROBLEM-BASED LEARNING WITHIN HIGHER EDUCATION ENVIRONMENTS. FEATURING A WIDE RANGE OF TOPICS SUCH AS CURRICULUM DESIGN, STEM EDUCATION, AND CROSS-CULTURAL COMMUNICATION, THIS REFERENCE SOURCE IS IDEAL FOR EDUCATORS, INSTRUCTIONAL DESIGNERS, ACADEMICIANS, ADMINISTRATORS, AND RESEARCHERS.

INFORMATION AND BUSINESS INTELLIGENCE - XILONG QU 2012-04-25

THIS TWO-VOLUME SET (CCIS 267 AND CCIS 268) CONSTITUTES THE REFEREED PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INFORMATION AND BUSINESS INTELLIGENCE, IBI 2011, HELD IN CHONGQING, CHINA, IN DECEMBER 2011. THE 229 FULL PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM 745 SUBMISSIONS. THE PAPERS ADDRESS TOPICS SUCH AS COMMUNICATION SYSTEMS; ACCOUNTING AND AGRIBUSINESS; INFORMATION EDUCATION AND EDUCATIONAL TECHNOLOGY; MANUFACTURING ENGINEERING; MULTIMEDIA CONVERGENCE; SECURITY AND TRUST COMPUTING; BUSINESS TEACHING AND EDUCATION; INTERNATIONAL BUSINESS AND MARKETING; ECONOMICS AND FINANCE; AND CONTROL SYSTEMS AND DIGITAL CONVERGENCE.

PROCEEDINGS OF THE FUTURE TECHNOLOGIES CONFERENCE (FTC) 2018 - KOHEI ARAI
2018-10-19

THE BOOK, PRESENTING THE PROCEEDINGS OF THE 2018 FUTURE TECHNOLOGIES CONFERENCE (FTC 2018), IS A REMARKABLE COLLECTION OF CHAPTERS COVERING A WIDE RANGE OF TOPICS, INCLUDING, BUT NOT LIMITED TO COMPUTING, ELECTRONICS, ARTIFICIAL INTELLIGENCE, ROBOTICS, SECURITY AND COMMUNICATIONS AND THEIR REAL-WORLD APPLICATIONS. THE CONFERENCE ATTRACTED A TOTAL OF 503 SUBMISSIONS FROM PIONEERING RESEARCHERS, SCIENTISTS, INDUSTRIAL ENGINEERS, AND STUDENTS FROM ALL OVER THE WORLD. AFTER A DOUBLE-BLIND PEER REVIEW PROCESS, 173 SUBMISSIONS (INCLUDING 6 POSTER PAPERS) HAVE BEEN SELECTED TO BE INCLUDED IN THESE PROCEEDINGS. FTC 2018 SUCCESSFULLY BROUGHT TOGETHER TECHNOLOGY GENIUSES IN ONE VENUE TO NOT ONLY PRESENT BREAKTHROUGH RESEARCH IN FUTURE TECHNOLOGIES BUT TO ALSO PROMOTE PRACTICALITY AND APPLICATIONS AND AN INTRA- AND INTER-FIELD EXCHANGE OF IDEAS. IN THE FUTURE, COMPUTING TECHNOLOGIES WILL PLAY A VERY IMPORTANT ROLE IN THE CONVERGENCE OF COMPUTING, COMMUNICATION, AND ALL OTHER COMPUTATIONAL SCIENCES AND APPLICATIONS. AND AS A RESULT IT WILL ALSO INFLUENCE THE FUTURE OF SCIENCE, ENGINEERING, INDUSTRY, BUSINESS, LAW, POLITICS, CULTURE, AND MEDICINE. PROVIDING STATE-OF-THE-ART INTELLIGENT METHODS AND TECHNIQUES FOR SOLVING REAL-WORLD PROBLEMS, AS WELL AS A VISION OF THE FUTURE RESEARCH, THIS BOOK IS A VALUABLE RESOURCE FOR ALL THOSE INTERESTED IN THIS AREA.

ARTIFICIAL INTELLIGENCE, INTERNET OF THINGS (IoT) AND SMART MATERIALS FOR ENERGY APPLICATIONS - MOHAN LAL KOLHE 2022-10-12

THIS REFERENCE TEXT OFFERS THE READER A COMPREHENSIVE INSIGHT INTO RECENT RESEARCH BREAKTHROUGHS IN BLOCKCHAIN, THE INTERNET OF THINGS (IoT), ARTIFICIAL INTELLIGENCE AND MATERIAL STRUCTURE AND HYBRID TECHNOLOGIES IN THEIR INTEGRATED PLATFORM, WHILE ALSO EMPHASIZING THEIR SUSTAINABILITY ASPECTS. THE TEXT BEGINS BY DISCUSSING RECENT ADVANCES IN ENERGY MATERIALS AND ENERGY CONVERSION MATERIALS USING MACHINE LEARNING, AS WELL AS RECENT ADVANCES IN OPTOELECTRONIC MATERIALS FOR SOLAR ENERGY APPLICATIONS. IT COVERS IMPORTANT TOPICS INCLUDING ADVANCEMENTS IN ELECTROLYTE MATERIALS FOR SOLID OXIDE FUEL CELLS, ADVANCEMENTS IN COMPOSITE MATERIALS FOR LI-ION BATTERIES, PROGRESSION OF MATERIALS FOR SUPERCAPACITOR APPLICATIONS, AND MATERIALS PROGRESSION FOR THERMOCHEMICAL STORAGE OF LOW-TEMPERATURE SOLAR THERMAL ENERGY SYSTEMS. THIS BOOK: DISCUSSES ADVANCES IN BLOCKCHAIN, THE INTERNET OF THINGS, ARTIFICIAL INTELLIGENCE, MATERIAL STRUCTURE AND HYBRID TECHNOLOGIES COVERS INTELLIGENT TECHNIQUES IN MATERIALS PROGRESSION FOR SENSOR DEVELOPMENT AND ENERGY MATERIAL CHARACTERIZATION USING SIGNAL PROCESSING EXAMINES THE INTEGRATION OF PHASE CHANGE MATERIALS IN CONSTRUCTION FOR THERMAL ENERGY REGULATION IN NEW BUILDINGS EXPLORES THE CURRENT HAPPENINGS IN TECHNOLOGY IN CONJUNCTION WITH BASIC LAWS AND MATHEMATICAL MODELS CONNECTING ADVANCES IN ENGINEERING MATERIALS WITH THE USE OF SMART TECHNIQUES INCLUDING ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND INTERNET OF THINGS (IoT) IN A SINGLE VOLUME, THIS TEXT WILL BE ESPECIALLY USEFUL FOR GRADUATE STUDENTS, ACADEMIC RESEARCHERS AND PROFESSIONALS IN THE FIELDS OF ELECTRICAL ENGINEERING, ELECTRONICS ENGINEERING, MATERIALS SCIENCE, MECHANICAL ENGINEERING AND COMPUTER SCIENCE.

INTRODUCING PROBLEM-BASED LEARNING (PBL) FOR CREATIVITY AND INNOVATION IN CHINESE UNIVERSITIES: EMERGING RESEARCH AND OPPORTUNITIES - ZHOU, CHUNFANG
2020-10-16

CHINESE UNIVERSITIES ARE STRIVING TO INTEGRATE NEW EDUCATIONAL ELEMENTS SUCH AS STUDENT-CENTERED LEARNING, GROUP LEARNING, ACTIVE LEARNING, AND LEARNING BY DOING INTO CURRENT TRADITIONAL CURRICULUM SYSTEMS FOR CREATIVITY DEVELOPMENT AMONG YOUNG GENERATIONS. HOWEVER, THE CONCEPT OF CREATIVITY BY ITS VERY NATURE IS A COMPLEX TERM OF MANY PERSPECTIVES. IT IS NECESSARY TO CLARIFY WHAT CREATIVITY IS, HOW CREATIVITY CAN BE FOSTERED IN LEARNING ENVIRONMENTS, AND WHAT UNIVERSITIES SHOULD DO IN ORDER TO FOSTER CREATIVE YOUNG TALENTS. INTRODUCING PROBLEM-BASED LEARNING (PBL) FOR CREATIVITY AND INNOVATION IN CHINESE UNIVERSITIES: EMERGING RESEARCH AND OPPORTUNITIES IS A CRITICAL SCHOLARLY RESOURCE THAT PROVIDES A MULTIDIMENSIONAL UNDERSTANDING ON BOTH CHALLENGES AND OPPORTUNITIES OF FOSTERING CREATIVITY AND PBL IN CHINESE UNIVERSITIES AND PARTICULARLY DISCUSSES THIS IMPLEMENTATION IN A CHINESE CULTURAL CONTEXT. THOUGH RELATED TO A CHINESE CULTURAL CONTEXT, THE BOOK CAN INSPIRE OTHER UNIVERSITIES IN OTHER CULTURES, PARTICULARLY IN ASIAN AREAS, TO LEARN WHY PBL IS A POTENTIAL STRATEGY FOR CREATIVITY DEVELOPMENT AND TO RETHINK HOW TO FACILITATE THE INNOVATION CAPABILITY OF UNIVERSITIES IN THE FUTURE. FEATURING A WIDE RANGE OF TOPICS SUCH AS COURSE DESIGN, EDUCATIONAL TECHNOLOGY, AND CURRICULUM DEVELOPMENT, THIS BOOK IS IDEAL FOR EDUCATION PROFESSIONALS, ACADEMICIANS, TEACHING PROFESSORS, RESEARCHERS, ADMINISTRATORS, AND STUDENTS.

TELE-HEALTHCARE - R. NIDHYA 2022-07-06

TELE-HEALTHCARE THIS BOOK ELUCIDATES ALL ASPECTS OF TELE-HEALTHCARE WHICH IS THE APPLICATION OF AI, SOFT COMPUTING, DIGITAL INFORMATION, AND COMMUNICATION TECHNOLOGIES, TO PROVIDE SERVICES REMOTELY AND MANAGE ONE'S HEALTHCARE. THROUGHOUT THE WORLD, THERE ARE HUGE DEVELOPING CRISES WITH RESPECT TO HEALTHCARE WORKFORCE SHORTAGES, AS WELL AS A GROWING BURDEN OF CHRONIC DISEASES. AS A RESULT, E-HEALTH HAS BECOME ONE OF THE FASTEST-GROWING SERVICE AREAS IN THE MEDICAL SECTOR. E-HEALTH SUPPORTS AND ENSURES THE AVAILABILITY OF PROPER HEALTHCARE, PUBLIC HEALTH, AND HEALTH EDUCATION SERVICES AT A DISTANCE AND IN REMOTE PLACES. FOR THE SECTOR TO GROW AND MEET THE NEED OF THE MARKETPLACE, E-HEALTH APPLICATIONS HAVE BECOME ONE OF THE FASTEST GROWING AREAS OF RESEARCH. HOWEVER, TO GROW AT A LARGER SCALE REQUIRES THE FOLLOWING: THE AVAILABILITY OF USER CASES FOR THE EXACT IDENTIFICATION OF PROBLEMS THAT NEED TO BE VISUALIZED. A WELL-SUPPORTED MARKET THAT CAN PROMOTE AND ADOPT THE E-HEALTH CARE CONCEPT. DEVELOPMENT OF COST-EFFECTIVENESS APPLICATIONS AND TECHNOLOGIES FOR SUCCESSFUL IMPLEMENTATION OF E-HEALTH AT A LARGER SCALE. THIS BOOK MAINLY FOCUSES ON THESE THREE POINTS FOR THE DEVELOPMENT AND IMPLEMENTATION OF E-HEALTH SERVICES GLOBALLY. IN THIS BOOK THE READER WILL FIND: DETAILS OF THE CHALLENGES IN PROMOTING AND IMPLEMENTING THE TELEHEALTH INDUSTRY. HOW TO EXPAND A GLOBALIZED AGENDA OF PERSONALIZED TELEHEALTH IN INTEGRATIVE MEDICAL TREATMENT FOR DISEASE DIAGNOSIS AND ITS INDUSTRIAL TRANSFORMATION. HOW TO DESIGN MACHINE LEARNING TECHNIQUES FOR IMPROVING THE TELE-HEALTHCARE SYSTEM. AUDIENCE RESEARCHERS AND POST-GRADUATE STUDENTS IN BIOMEDICAL ENGINEERING, ARTIFICIAL INTELLIGENCE, AND INFORMATION TECHNOLOGY; MEDICAL DOCTORS AND PRACTITIONERS AND INDUSTRY EXPERTS IN THE HEALTHCARE SECTOR; HEALTHCARE SECTOR NETWORK ADMINISTRATORS.

PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON ADVANCE COMPUTING AND INTELLIGENT ENGINEERING - BIBUDHENDU PATI 2022-09-21

THIS BOOK GATHERS HIGH-QUALITY RESEARCH PAPERS PRESENTED AT THE 6TH INTERNATIONAL CONFERENCE ON ADVANCED COMPUTING AND INTELLIGENT ENGINEERING (ICACIE 2021) ORGANIZED BY BHUBANESWAR INSTITUTE OF TECHNOLOGY, BHUBANESWAR, ODISHA, INDIA, DURING DECEMBER 23-24, 2021. IT INCLUDES SECTIONS DESCRIBING TECHNICAL ADVANCES AND THE LATEST RESEARCH IN THE FIELDS OF COMPUTING AND INTELLIGENT ENGINEERING. INTENDED FOR GRADUATE STUDENTS AND RESEARCHERS WORKING IN THE DISCIPLINES OF COMPUTER SCIENCE AND ENGINEERING, THE PROCEEDINGS ALSO APPEAL TO RESEARCHERS IN THE FIELD OF ELECTRONICS, AS THEY COVER HARDWARE TECHNOLOGIES AND FUTURE COMMUNICATION TECHNOLOGIES.

2D AND 3D IMAGE ANALYSIS BY MOMENTS - JAN FLUSSER 2016-11-15

PRESENTS RECENT SIGNIFICANT AND RAPID DEVELOPMENT IN THE FIELD OF 2D AND 3D IMAGE ANALYSIS 2D AND 3D IMAGE ANALYSIS BY MOMENTS, IS A UNIQUE COMPENDIUM OF MOMENT-BASED IMAGE ANALYSIS WHICH INCLUDES TRADITIONAL METHODS AND ALSO REFLECTS THE LATEST DEVELOPMENT OF THE FIELD. THE BOOK PRESENTS A SURVEY OF 2D AND 3D MOMENT INVARIANTS WITH RESPECT TO SIMILARITY AND AFFINE SPATIAL TRANSFORMATIONS AND TO IMAGE BLURRING AND SMOOTHING BY VARIOUS FILTERS. THE

BOOK COMPREHENSIVELY DESCRIBES THE MATHEMATICAL BACKGROUND AND THEOREMS ABOUT THE INVARIANTS BUT A LARGE PART IS ALSO DEVOTED TO PRACTICAL USAGE OF MOMENTS. APPLICATIONS FROM VARIOUS FIELDS OF COMPUTER VISION, REMOTE SENSING, MEDICAL IMAGING, IMAGE RETRIEVAL, WATERMARKING, AND FORENSIC ANALYSIS ARE DEMONSTRATED. ATTENTION IS ALSO PAID TO EFFICIENT ALGORITHMS OF MOMENT COMPUTATION. KEY FEATURES: PRESENTS A SYSTEMATIC OVERVIEW OF MOMENT-BASED FEATURES USED IN 2D AND 3D IMAGE ANALYSIS. DEMONSTRATES INVARIANT PROPERTIES OF MOMENTS WITH RESPECT TO VARIOUS SPATIAL AND INTENSITY TRANSFORMATIONS. REVIEWS AND COMPARES SEVERAL ORTHOGONAL POLYNOMIALS AND RESPECTIVE MOMENTS. DESCRIBES EFFICIENT NUMERICAL ALGORITHMS FOR MOMENT COMPUTATION. IT IS A "CLASSROOM READY" TEXTBOOK WITH A SELF-CONTAINED INTRODUCTION TO CLASSIFIER DESIGN. THE ACCOMPANYING WEBSITE CONTAINS AROUND 300 LECTURE SLIDES, MATLAB CODES, COMPLETE LISTS OF THE INVARIANTS, TEST IMAGES, AND OTHER SUPPLEMENTARY MATERIAL. 2D AND 3D IMAGE ANALYSIS BY MOMENTS, IS IDEAL FOR MATHEMATICIANS, COMPUTER SCIENTISTS, ENGINEERS, SOFTWARE DEVELOPERS, AND PH.D STUDENTS INVOLVED IN IMAGE ANALYSIS AND RECOGNITION. DUE TO THE ADDITION OF TWO INTRODUCTORY CHAPTERS ON CLASSIFIER DESIGN, THE BOOK MAY ALSO SERVE AS A SELF-CONTAINED TEXTBOOK FOR GRADUATE UNIVERSITY COURSES ON OBJECT RECOGNITION.

ARTIFICIAL INTELLIGENCE FOR KNOWLEDGE MANAGEMENT - Mieczysław Aw Lech Owoc
2021-08-05

THIS BOOK FEATURES A SELECTION OF EXTENDED PAPERS PRESENTED AT THE 7TH IFIP WG 12.6 INTERNATIONAL WORKSHOP ON ARTIFICIAL INTELLIGENCE FOR KNOWLEDGE MANAGEMENT, AI4KM 2019, HELD IN MACAO, CHINA, IN AUGUST 2019, IN THE FRAMEWORK OF THE INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE, IJCAI 2019. THE 8 REVISED AND EXTENDED PAPERS WERE CAREFULLY REVIEWED AND SELECTED FOR INCLUSION IN THIS VOLUME. THEY PRESENT NEW RESEARCH AND INNOVATIVE ASPECTS IN THE FIELD OF KNOWLEDGE MANAGEMENT SUCH AS MACHINE LEARNING, KNOWLEDGE MODELS, KM AND WEB, KNOWLEDGE CAPTURING AND LEARNING, AND KM AND AI INTERSECTIONS.

FRONTIER COMPUTING - JASON C. HUNG 2019-05-18

THIS BOOK PRESENTS THE PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON FRONTIER COMPUTING, HELD IN KUALA LUMPUR, MALAYSIA ON JULY 3-6, 2018, AND PROVIDES COMPREHENSIVE COVERAGE OF THE LATEST ADVANCES AND TRENDS IN INFORMATION TECHNOLOGY, SCIENCE AND ENGINEERING. IT ADDRESSES A NUMBER OF BROAD THEMES, INCLUDING COMMUNICATION NETWORKS, BUSINESS INTELLIGENCE AND KNOWLEDGE MANAGEMENT, WEB INTELLIGENCE, AND RELATED FIELDS THAT INSPIRE THE DEVELOPMENT OF INFORMATION TECHNOLOGY. THE CONTRIBUTIONS COVER A WIDE RANGE OF TOPICS: DATABASE AND DATA MINING, NETWORKING AND COMMUNICATIONS, WEB AND INTERNET OF THINGS, EMBEDDED SYSTEMS, SOFT COMPUTING, SOCIAL NETWORK ANALYSIS, SECURITY AND PRIVACY, OPTICAL COMMUNICATION, AND UBIQUITOUS/PERVASIVE COMPUTING. MANY OF THE PAPERS OUTLINE PROMISING FUTURE RESEARCH DIRECTIONS. THE BOOK IS A VALUABLE RESOURCE FOR STUDENTS, RESEARCHERS AND PROFESSIONALS, AND ALSO OFFERS A USEFUL REFERENCE GUIDE FOR NEWCOMERS TO THE FIELD.

ADVANCES IN NATURE AND BIOLOGICALLY INSPIRED COMPUTING - NELISHIA PILLAY
2015-12-01

WORLD CONGRESS ON NATURE AND BIOLOGICALLY INSPIRED COMPUTING (NABIC) IS ORGANIZED TO DISCUSS THE STATE-OF-THE-ART AS WELL AS TO ADDRESS VARIOUS ISSUES WITH RESPECT TO NURTURING INTELLIGENT COMPUTING TOWARDS ADVANCEMENT OF MACHINE INTELLIGENCE. THIS VOLUME CONTAINS THE PAPERS PRESENTED IN THE SEVENTH WORLD CONGRESS (NABIC'15) HELD IN PIETERMARITZBURG, SOUTH AFRICA DURING DECEMBER 01-03, 2015. THE 39 PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED. THE VOLUME WOULD BE A VALUABLE REFERENCE TO RESEARCHERS, STUDENTS AND PRACTITIONERS IN THE COMPUTATIONAL INTELLIGENCE FIELD.

HANDS-ON ARTIFICIAL INTELLIGENCE FOR CYBERSECURITY - ALESSANDRO PARISI
2019-08-02

BUILD SMART CYBERSECURITY SYSTEMS WITH THE POWER OF MACHINE LEARNING AND DEEP LEARNING TO PROTECT YOUR CORPORATE ASSETS KEY FEATURES IDENTIFY AND PREDICT SECURITY THREATS USING ARTIFICIAL INTELLIGENCE DEVELOP INTELLIGENT SYSTEMS THAT CAN DETECT UNUSUAL AND SUSPICIOUS PATTERNS AND ATTACKS LEARN HOW TO TEST THE EFFECTIVENESS OF YOUR AI CYBERSECURITY ALGORITHMS AND TOOLS BOOK DESCRIPTION TODAY'S ORGANIZATIONS SPEND BILLIONS OF DOLLARS GLOBALLY ON CYBERSECURITY. ARTIFICIAL INTELLIGENCE HAS EMERGED AS A GREAT SOLUTION FOR BUILDING SMARTER AND SAFER SECURITY SYSTEMS THAT ALLOW YOU TO PREDICT AND DETECT SUSPICIOUS NETWORK ACTIVITY, SUCH AS PHISHING OR UNAUTHORIZED INTRUSIONS. THIS CYBERSECURITY BOOK PRESENTS AND DEMONSTRATES POPULAR AND SUCCESSFUL AI APPROACHES AND MODELS THAT YOU CAN ADAPT TO DETECT POTENTIAL ATTACKS AND PROTECT YOUR CORPORATE SYSTEMS. YOU'LL LEARN ABOUT THE ROLE OF MACHINE LEARNING AND NEURAL NETWORKS, AS WELL AS DEEP LEARNING IN CYBERSECURITY, AND YOU'LL ALSO LEARN HOW YOU CAN INFUSE AI CAPABILITIES INTO BUILDING SMART DEFENSIVE MECHANISMS. AS YOU ADVANCE, YOU'LL BE ABLE TO APPLY THESE STRATEGIES ACROSS A VARIETY OF APPLICATIONS, INCLUDING SPAM FILTERS, NETWORK INTRUSION DETECTION, BOTNET DETECTION, AND SECURE AUTHENTICATION. BY THE END OF THIS BOOK, YOU'LL BE READY TO DEVELOP INTELLIGENT SYSTEMS THAT CAN DETECT UNUSUAL AND SUSPICIOUS PATTERNS AND ATTACKS, THEREBY DEVELOPING STRONG NETWORK SECURITY DEFENSES USING AI. WHAT YOU WILL LEARN DETECT EMAIL THREATS SUCH AS SPAMMING AND PHISHING USING AI CATEGORIZE APT, ZERO-DAYS, AND POLYMORPHIC MALWARE SAMPLES OVERCOME ANTIVIRUS LIMITS IN THREAT DETECTION PREDICT NETWORK INTRUSIONS AND DETECT ANOMALIES WITH MACHINE LEARNING VERIFY THE STRENGTH OF BIOMETRIC AUTHENTICATION PROCEDURES WITH DEEP LEARNING EVALUATE CYBERSECURITY STRATEGIES AND LEARN HOW YOU CAN IMPROVE THEM WHO THIS BOOK IS FOR IF YOU'RE A CYBERSECURITY PROFESSIONAL OR ETHICAL HACKER WHO WANTS TO BUILD INTELLIGENT SYSTEMS USING THE POWER OF MACHINE LEARNING AND AI, YOU'LL FIND THIS BOOK USEFUL. FAMILIARITY WITH CYBERSECURITY CONCEPTS AND KNOWLEDGE OF PYTHON PROGRAMMING IS ESSENTIAL TO GET THE MOST OUT OF THIS BOOK.

DIGITAL/ONLINE NETWORKS IN EVERYDAY LIFE DURING PANDEMICS - PILAR LACASA
2022-04-18

ARTIFICIAL INTELLIGENCE FOR THE INTERNET OF EVERYTHING - WILLIAM LAWLESS

2019-02-21

ARTIFICIAL INTELLIGENCE FOR THE INTERNET OF EVERYTHING CONSIDERS THE FOUNDATIONS, METRICS AND APPLICATIONS OF IOE SYSTEMS. IT COVERS WHETHER DEVICES AND IOE SYSTEMS SHOULD SPEAK ONLY TO EACH OTHER, TO HUMANS OR TO BOTH. FURTHER, THE BOOK EXPLORES HOW IOE SYSTEMS AFFECT TARGETED AUDIENCES (RESEARCHERS, MACHINES, ROBOTS, USERS) AND SOCIETY, AS WELL AS FUTURE ECOSYSTEMS. IT EXAMINES THE MEANING, VALUE AND EFFECT THAT IoT HAS HAD AND MAY HAVE ON ORDINARY LIFE, IN BUSINESS, ON THE BATTLEFIELD, AND WITH THE RISE OF INTELLIGENT AND AUTONOMOUS SYSTEMS. BASED ON AN ARTIFICIAL INTELLIGENCE (AI) PERSPECTIVE, THIS BOOK ADDRESSES HOW IOE AFFECTS SENSING, PERCEPTION, COGNITION AND BEHAVIOR. EACH CHAPTER ADDRESSES PRACTICAL, MEASUREMENT, THEORETICAL AND RESEARCH QUESTIONS ABOUT HOW THESE "THINGS MAY AFFECT INDIVIDUALS, TEAMS, SOCIETY OR EACH OTHER. OF PARTICULAR FOCUS IS WHAT MAY HAPPEN WHEN THESE "THINGS BEGIN TO REASON, COMMUNICATE AND ACT AUTONOMOUSLY ON THEIR OWN, WHETHER INDEPENDENTLY OR INTERDEPENDENTLY WITH OTHER "THINGS. CONSIDERS THE FOUNDATIONS, METRICS AND APPLICATIONS OF IOE SYSTEMS DEBATES WHETHER IOE SYSTEMS SHOULD SPEAK TO HUMANS AND EACH OTHER EXPLORES HOW IOE SYSTEMS AFFECT TARGETED AUDIENCES AND SOCIETY DISCUSSES THEORETICAL IoT ECOSYSTEM MODELS

PATTERN ANALYSIS, INTELLIGENT SECURITY AND THE INTERNET OF THINGS - AJITH ABRAHAM
2015-06-20

THIS VOLUME PRESENTS THE SELECTED PAPERS FROM THE 5 PARALLEL SYMPOSIUMS OF THE 2014 FOURTH WORLD CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGIES (WICT 2014) HELD IN MALACCA, MALAYSIA. THE THEME OF WICT 2014 'INNOVATING ICT FOR SOCIAL REVOLUTIONS'. WICT 2014 IS CO-ORGANIZED BY MACHINE INTELLIGENCE RESEARCH LABS (MIR LABS), USA AND UNIVERSITI TEKNIKAL MALAYSIA MELAKA, MALAYSIA. WICT 2014 IS TECHNICALLY CO-SPONSORED BY IEEE SYSTEMS, MAN & CYBERNETICS SOCIETY MALAYSIA AND SPAIN CHAPTERS AND TECHNICALLY SUPPORTED BY IEEE SYSTEMS MAN AND CYBERNETICS SOCIETY, TECHNICAL COMMITTEE ON SOFT COMPUTING.

INTELLIGENT VIDEO EVENT ANALYSIS AND UNDERSTANDING - JIANGUO ZHANG 2011-01-19

WITH THE VAST DEVELOPMENT OF INTERNET CAPACITY AND SPEED, AS WELL AS WIDE ADOPTION OF MEDIA TECHNOLOGIES IN PEOPLE'S DAILY LIFE, A LARGE AMOUNT OF VIDEOS HAVE BEEN SURGING, AND NEED TO BE EFFICIENTLY PROCESSED OR ORGANIZED BASED ON INTEREST. THE HUMAN VISUAL PERCEPTION SYSTEM COULD, WITHOUT DIFFICULTY, INTERPRET AND RECOGNIZE THOUSANDS OF EVENTS IN VIDEOS, DESPITE HIGH LEVEL OF VIDEO OBJECT CLUTTERS, DIFFERENT TYPES OF SCENE CONTEXT, VARIABILITY OF MOTION SCALES, APPEARANCE CHANGES, OCCLUSIONS AND OBJECT INTERACTIONS. FOR A COMPUTER VISION SYSTEM, IT HAS BEEN BE VERY CHALLENGING TO ACHIEVE AUTOMATIC VIDEO EVENT UNDERSTANDING FOR DECADES. BROADLY SPEAKING, THOSE CHALLENGES INCLUDE ROBUST DETECTION OF EVENTS UNDER TION CLUTTERS, EVENT INTERPRETATION UNDER COMPLEX SCENES, MULTI-LEVEL SEMANTIC EVENT INFERENCE, PUTTING EVENTS IN CONTEXT AND MULTIPLE CAMERAS, EVENT INFERENCE FROM OBJECT INTERACTIONS, ETC. IN RECENT YEARS, STEADY PROGRESS HAS BEEN MADE TOWARDS BETTER MODELS FOR VIDEO EVENT CATEGORISATION AND RECOGNITION, E. G. , FROM MODELLING EVENTS WITH BAG OF SPATIAL TEMPORAL FEATURES TO DISCOVERING EVENT CONTEXT, FROM DETECTING EVENTS USING A SINGLE CAMERA TO INFERRING EVENTS THROUGH A DISTRIBUTED CAMERA NETWORK, AND FROM LOW-LEVEL EVENT FEATURE EXTRACTION AND DESCRIPTION TO HIGH-LEVEL SEMANTIC EVENT CLASSIFICATION AND RECOGNITION. NOWADAYS, TEXT BASED VIDEO RETRIEVAL IS WIDELY USED BY COMMERCIAL SEARCH ENGINES. HOWEVER, IT IS STILL VERY DIFFICULT TO RETRIEVE OR CATEGORISE A SPECIFIC VIDEO SEGMENT BASED ON THEIR CONTENT IN A REAL MULTIMEDIA SYSTEM OR IN SURVEILLANCE APPLICATIONS.

INTELLIGENT NETWORK MANAGEMENT AND CONTROL - BADR BENMAMMAR 2021-04-13

THE MANAGEMENT AND CONTROL OF NETWORKS CAN NO LONGER BE ENVISAGED WITHOUT THE INTRODUCTION OF ARTIFICIAL INTELLIGENCE AT ALL STAGES. INTELLIGENT NETWORK MANAGEMENT AND CONTROL DEALS WITH TOPICAL ISSUES RELATED MAINLY TO INTELLIGENT SECURITY OF COMPUTER NETWORKS, DEPLOYMENT OF SECURITY SERVICES IN SDN (SOFTWARE-DEFINED NETWORKING), OPTIMIZATION OF NETWORKS USING ARTIFICIAL INTELLIGENCE TECHNIQUES AND MULTI-CRITERIA OPTIMIZATION METHODS FOR SELECTING NETWORKS IN A HETEROGENEOUS ENVIRONMENT. THIS BOOK ALSO FOCUSES ON SELECTING CLOUD COMPUTING SERVICES, INTELLIGENT UNLOADING OF CALCULATIONS IN THE CONTEXT OF MOBILE CLOUD COMPUTING, INTELLIGENT RESOURCE MANAGEMENT IN A SMART GRID-CLOUD SYSTEM FOR BETTER ENERGY EFFICIENCY, NEW ARCHITECTURES FOR THE INTERNET OF VEHICLES (IoV), THE APPLICATION OF ARTIFICIAL INTELLIGENCE IN COGNITIVE RADIO NETWORKS AND INTELLIGENT RADIO INPUT TO MEET THE ON-ROAD COMMUNICATION NEEDS OF AUTONOMOUS VEHICLES.

INTELLIGENCE AND SECURITY INFORMATICS - HSINCHUN CHEN 2008-06-17

THE IEEE INTERNATIONAL CONFERENCE ON INTELLIGENCE AND SECURITY INFORMATICS (ISI) AND PACIFIC ASIA WORKSHOP ON INTELLIGENCE AND SECURITY INFORMATICS (PAISI) CONFERENCE SERIES ([HTTP://WWW.ISICONFERENCE.ORG](http://www.isiconference.org)) HAVE DRAWN SIGNIFICANT ATTENTION IN THE RECENT YEARS. INTELLIGENCE AND SECURITY INFORMATICS IS CONCERNED WITH THE STUDY OF THE DEVELOPMENT AND USE OF ADVANCED INFORMATION TECHNOLOGIES AND SYSTEMS FOR NATIONAL, INTERNATIONAL, AND SOCIETAL SECURITY-RELATED APPLICATIONS. THE ISI CONFERENCE SERIES HAVE BROUGHT TOGETHER ACADEMIC RESEARCHERS, LAW ENFORCEMENT AND INTELLIGENCE EXPERTS, FORMATION TECHNOLOGY CONSULTANT AND PRACTITIONERS TO DISCUSS THEIR RESEARCH AND PRACTICE RELATED TO VARIOUS ISI TOPICS INCLUDING ISI DATA MANAGEMENT, DATA AND TEXT MINING FOR ISI APPLICATIONS, TERRORISM INFORMATICS, DECEPTION AND INTENT DETECTION, TERRORIST AND CRIMINAL SOCIAL NETWORK ANALYSIS, PUBLIC HEALTH AND BIO-SECURITY, CRIME ANALYSIS, INFRASTRUCTURE PROTECTION, TRANSPORTATION INFRASTRUCTURE SECURITY, POLICY STUDIES AND EVALUATION, INFORMATION ASSURANCE, AMONG OTHERS. IN THIS BOOK, WE COLLECT THE WORK OF THE MOST ACTIVE RESEARCHERS IN THE AREA. TOPICS INCLUDE DATA AND TEXT MINING IN TERRORISM, INFORMATION SHARING, SOCIAL NETWORK ANALYSIS, WEB-BASED INTELLIGENCE MONITORING AND ANALYSIS, CRIME DATA ANALYSIS, INFRASTRUCTURE PROTECTION, DECEPTION AND INTENT DETECTION AND MORE. SCOPE AND ORGANIZATION THE BOOK IS ORGANIZED IN FOUR MAJOR AREAS. THE FIRST UNIT FOCUSES ON THE TERRORISM INFORMATICS AND DATA MINING. THE SECOND UNIT DISCUSSES THE INTELLIGENCE AND CRIME ANALYSIS. THE THIRD UNIT COVERS ACCESS CONTROL, INFRASTRUCTURE PROTECTION, AND

PRIVACY. THE FORTH UNIT PRESENTS SURVEILLANCE AND EMERGENCY RESPONSE.

INTELLIGENT SECURITY SYSTEMS - LEON REZNIK 2021-09-23

INTELLIGENT SECURITY SYSTEMS DRAMATICALLY IMPROVE YOUR CYBERSECURITY USING AI AND MACHINE LEARNING. IN INTELLIGENT SECURITY SYSTEMS, DISTINGUISHED PROFESSOR AND COMPUTER SCIENTIST DR. LEON REZNIK DELIVERS AN EXPERT SYNTHESIS OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND DATA SCIENCE TECHNIQUES, APPLIED TO COMPUTER SECURITY TO ASSIST READERS IN HARDENING THEIR COMPUTER SYSTEMS AGAINST THREATS. EMPHASIZING PRACTICAL AND ACTIONABLE STRATEGIES THAT CAN BE IMMEDIATELY IMPLEMENTED BY INDUSTRY PROFESSIONALS AND COMPUTER DEVICE'S OWNERS, THE AUTHOR EXPLAINS HOW TO INSTALL AND HARDEN FIREWALLS, INTRUSION DETECTION SYSTEMS, ATTACK RECOGNITION TOOLS, AND MALWARE PROTECTION SYSTEMS. HE ALSO EXPLAINS HOW TO RECOGNIZE AND COUNTER COMMON HACKING ACTIVITIES. THIS BOOK BRIDGES THE GAP BETWEEN CYBERSECURITY EDUCATION AND NEW DATA SCIENCE PROGRAMS, DISCUSSING HOW CUTTING-EDGE ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNIQUES CAN WORK FOR AND AGAINST CYBERSECURITY EFFORTS. INTELLIGENT SECURITY SYSTEMS INCLUDES SUPPLEMENTARY RESOURCES ON AN AUTHOR-HOSTED WEBSITE, SUCH AS CLASSROOM PRESENTATION SLIDES, SAMPLE REVIEW, TEST AND EXAM QUESTIONS, AND PRACTICE EXERCISES TO MAKE THE MATERIAL CONTAINED PRACTICAL AND USEFUL. THE BOOK ALSO OFFERS: A THOROUGH INTRODUCTION TO COMPUTER SECURITY, ARTIFICIAL INTELLIGENCE, AND MACHINE LEARNING, INCLUDING BASIC DEFINITIONS AND CONCEPTS LIKE THREATS, VULNERABILITIES, RISKS, ATTACKS, PROTECTION, AND TOOLS AN EXPLORATION OF FIREWALL DESIGN AND IMPLEMENTATION, INCLUDING FIREWALL TYPES AND MODELS, TYPICAL DESIGNS AND CONFIGURATIONS, AND THEIR LIMITATIONS AND PROBLEMS DISCUSSIONS OF INTRUSION DETECTION SYSTEMS (IDS), INCLUDING ARCHITECTURE TOPOLOGIES, COMPONENTS, AND OPERATIONAL RANGES, CLASSIFICATION APPROACHES, AND MACHINE LEARNING TECHNIQUES IN IDS DESIGN A TREATMENT OF MALWARE AND VULNERABILITIES DETECTION AND PROTECTION, INCLUDING MALWARE CLASSES, HISTORY, AND DEVELOPMENT TRENDS PERFECT FOR UNDERGRADUATE AND GRADUATE STUDENTS IN COMPUTER SECURITY, COMPUTER SCIENCE AND ENGINEERING, INTELLIGENT SECURITY SYSTEMS WILL ALSO EARN A PLACE IN THE LIBRARIES OF STUDENTS AND EDUCATORS IN INFORMATION TECHNOLOGY AND DATA SCIENCE, AS WELL AS PROFESSIONALS WORKING IN THOSE FIELDS.

ADVANCES IN COMPUTATIONAL INTELLIGENCE, SECURITY AND INTERNET OF THINGS - ASHIM SAHA 2020-03-04

THIS VOLUME CONSTITUTES THE REFEREED PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE, SECURITY AND INTERNET OF THINGS, ICCISIoT 2019, HELD IN AGARTALA, INDIA, IN DECEMBER 2019. THE 31 FULL PAPERS AND 6 SHORT PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 153 SUBMISSIONS. THE PAPERS ARE ORGANISED ACCORDING TO THE FOLLOWING TOPICS: COMPUTATIONAL INTELLIGENCE, SECURITY, INTERNET OF THINGS. PAPERS FROM THE EXTENDED TRACK ARE ALSO PRESENTED IN THE VOLUME.

ADVANCES IN PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE - MARLEAH BLOM 2021-12-17

THIS BOOK INCLUDES REVIEWED PAPERS BY INTERNATIONAL SCHOLARS FROM THE 2020 INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE (HELD ONLINE). THE PAPERS HAVE BEEN EXPANDED TO PROVIDE MORE DETAILS SPECIFICALLY FOR THE BOOK. IT IS GEARED TO PROMOTE ONGOING INTEREST AND UNDERSTANDING ABOUT PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE. LIKE THE PREVIOUS BOOK IN THE SERIES, THIS BOOK COVERS A RANGE OF TOPICS AND ILLUSTRATES POTENTIAL AREAS WHERE PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE CAN BE APPLIED. IT HIGHLIGHTS, FOR EXAMPLE, HOW PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE CAN BE USED TO CLASSIFY, PREDICT, DETECT AND HELP PROMOTE FURTHER DISCOVERIES RELATED TO CREDIT SCORES, CRIMINAL NEWS, NATIONAL ELECTIONS, LICENSE PLATES, GENDER, PERSONALITY CHARACTERISTICS, HEALTH, AND MORE. CHAPTERS INCLUDE WORKS THAT CENTRED ON MEDICAL AND FINANCIAL APPLICATIONS AS WELL AS TOPICS RELATED TO HANDWRITING ANALYSIS AND TEXT PROCESSING, INTERNET SECURITY, IMAGE ANALYSIS, DATABASE CREATION, NEURAL NETWORKS AND DEEP LEARNING. WHILE THE BOOK IS GEARED TO PROMOTE INTEREST FROM THE GENERAL PUBLIC, IT MAY ALSO BE OF INTEREST TO GRADUATE STUDENTS AND RESEARCHERS IN THE FIELD.

SMART AND SUSTAINABLE INTELLIGENT SYSTEMS - NAMITA GUPTA 2021-03-08

THE WORLD IS EXPERIENCING AN UNPRECEDENTED PERIOD OF CHANGE AND GROWTH THROUGH ALL THE ELECTRONIC AND TECHNOLOGICAL DEVELOPMENTS AND EVERYONE ON THE PLANET HAS BEEN IMPACTED. WHAT WAS ONCE 'SCIENCE FICTION', TODAY IT IS A REALITY. THIS BOOK EXPLORES THE WORLD OF MANY OF ONCE UNTHINKABLE ADVANCEMENTS BY EXPLAINING CURRENT TECHNOLOGIES IN GREAT DETAIL. EACH CHAPTER FOCUSES ON A DIFFERENT ASPECT - MACHINE VISION, PATTERN ANALYSIS AND IMAGE PROCESSING - ADVANCED TRENDS IN COMPUTATIONAL INTELLIGENCE AND DATA ANALYTICS - FUTURISTIC COMMUNICATION TECHNOLOGIES - DISRUPTIVE TECHNOLOGIES FOR FUTURE SUSTAINABILITY. THE CHAPTERS INCLUDE THE LIST OF TOPICS THAT SPANS ALL THE AREAS OF SMART INTELLIGENT SYSTEMS AND COMPUTING SUCH AS: DATA MINING WITH SOFT COMPUTING, EVOLUTIONARY COMPUTING, QUANTUM COMPUTING, EXPERT SYSTEMS, NEXT GENERATION COMMUNICATION, BLOCKCHAIN AND TRUST MANAGEMENT, INTELLIGENT BIOMETRICS, MULTI-VALUED LOGICAL SYSTEMS, CLOUD COMPUTING AND SECURITY ETC. AN EXTENSIVE LIST OF BIBLIOGRAPHIC REFERENCES AT THE END OF EACH CHAPTER GUIDES THE READER TO PROBE FURTHER INTO APPLICATION AREA OF INTEREST TO HIM/HER.

ARTIFICIAL INTELLIGENCE TO SOLVE PERVASIVE INTERNET OF THINGS ISSUES - GURJIT KAUR 2020-11-18

ARTIFICIAL INTELLIGENCE TO SOLVE PERVASIVE INTERNET OF THINGS ISSUES DISCUSSES STANDARDS AND TECHNOLOGIES AND WIDE-RANGING TECHNOLOGY AREAS AND THEIR APPLICATIONS AND CHALLENGES, INCLUDING DISCUSSIONS ON ARCHITECTURES, FRAMEWORKS, APPLICATIONS, BEST PRACTICES, METHODS AND TECHNIQUES REQUIRED FOR INTEGRATING AI TO RESOLVE IoT ISSUES. CHAPTERS ALSO PROVIDE STEP-BY-STEP MEASURES, PRACTICES AND SOLUTIONS TO TACKLE VITAL DECISION-MAKING AND PRACTICAL ISSUES AFFECTING IoT TECHNOLOGY, INCLUDING AUTONOMOUS DEVICES AND COMPUTERIZED SYSTEMS. SUCH ISSUES RANGE FROM ADOPTING, MITIGATING, MAINTAINING, MODERNIZING AND PROTECTING AI AND IoT INFRASTRUCTURE COMPONENTS SUCH AS SCALABILITY, SUSTAINABILITY, LATENCY, SYSTEM DECENTRALIZATION AND MAINTAINABILITY. THE BOOK ENABLES READERS TO EXPLORE, DISCOVER AND IMPLEMENT NEW SOLUTIONS FOR INTEGRATING AI TO SOLVE IoT ISSUES.

RESOLVING THESE ISSUES WILL HELP READERS ADDRESS MANY REAL-WORLD APPLICATIONS IN AREAS SUCH AS SCIENTIFIC RESEARCH, HEALTHCARE, DEFENSE, AERONAUTICS, ENGINEERING, SOCIAL MEDIA, AND MANY OTHERS. DISCUSSES INTELLIGENT TECHNIQUES FOR THE IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE IN INTERNET OF THINGS PREPARED FOR RESEARCHERS AND SPECIALISTS WHO ARE INTERESTED IN THE USE AND INTEGRATION OF IoT AND ARTIFICIAL INTELLIGENCE TECHNOLOGIES

ADVANCES IN INTELLIGENT DATA ANALYSIS AND APPLICATIONS - JENG-SHYANG PAN 2021-11-25

THIS BOOK CONSTITUTES THE PROCEEDING OF THE SIXTH INTERNATIONAL CONFERENCE ON INTELLIGENT DATA ANALYSIS AND APPLICATIONS, OCTOBER 15-18, 2019, ARAD, ROMANIA. THIS EDITION IS TECHNICALLY CO-SPONSORED BY "AUREL VLAICU" UNIVERSITY OF ARAD, ROMANIA, SOUTHWEST JIAOTONG UNIVERSITY, FUJIAN UNIVERSITY OF TECHNOLOGY, CHANG'AN UNIVERSITY, SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, FUJIAN PROVINCIAL KEY LAB OF BIG DATA MINING AND APPLICATIONS, AND NATIONAL DEMONSTRATION CENTER FOR EXPERIMENTAL ELECTRONIC INFORMATION AND ELECTRICAL TECHNOLOGY EDUCATION (FUJIAN UNIVERSITY OF TECHNOLOGY), CHINA, ROMANIAN ACADEMY, AND GENERAL ASSOCIATION OF ENGINEERS IN ROMANIA - ARAD SECTION. THE BOOK COVERS A RANGE OF TOPICS: MACHINE LEARNING, INTELLIGENT CONTROL, PATTERN RECOGNITION, COMPUTATIONAL INTELLIGENCE, SIGNAL ANALYSIS, MODELING AND VISUALIZATION, MULTIMEDIA SENSING AND SENSORY SYSTEMS, SIGNAL CONTROL, IMAGING AND PROCESSING, INFORMATION SYSTEM SECURITY, CRYPTOGRAPHY AND CRYPTANALYSIS, DATABASES AND DATA MINING, INFORMATION HIDING, CLOUD COMPUTING, INFORMATION RETRIEVAL AND INTEGRATION, ROBOTICS, CONTROL, AGENTS, COMMAND, CONTROL, COMMUNICATION AND COMPUTERS (C4), SWARMING TECHNOLOGY, SENSOR TECHNOLOGY, SMART CITIES. THE BOOK OFFERS A TIMELY, BOARD SNAPSHOT OF NEW DEVELOPMENT INCLUDING TRENDS AND CHALLENGES THAT ARE YIELDING RECENT RESEARCH DIRECTIONS IN DIFFERENT AREAS OF INTELLIGENT DATA ANALYSIS AND APPLICATIONS. THE BOOK PROVIDES USEFUL INFORMATION TO PROFESSORS, RESEARCHERS, AND GRADUATED STUDENTS IN AREA OF INTELLIGENT DATA ANALYSIS AND APPLICATIONS.

DARK WEB PATTERN RECOGNITION AND CRIME ANALYSIS USING MACHINE INTELLIGENCE - RAWAT, ROMIL 2022-05-13

DATA STEALING IS A MAJOR CONCERN ON THE INTERNET AS HACKERS AND CRIMINALS HAVE BEGUN USING SIMPLE TRICKS TO HACK SOCIAL NETWORKS AND VIOLATE PRIVACY. CYBER-ATTACK METHODS ARE PROGRESSIVELY MODERN, AND OBSTRUCTING THE ATTACK IS INCREASINGLY TROUBLESOME, REGARDLESS OF WHETHER COUNTERMEASURES ARE TAKEN. THE DARK WEB ESPECIALLY PRESENTS CHALLENGES TO INFORMATION PRIVACY AND SECURITY DUE TO ANONYMOUS BEHAVIORS AND THE UNAVAILABILITY OF DATA. TO BETTER UNDERSTAND AND PREVENT CYBERATTACKS, IT IS VITAL TO HAVE A FORECAST OF CYBERATTACKS, PROPER SAFETY MEASURES, AND VIABLE USE OF CYBER-INTELLIGENCE THAT EMPOWERS THESE ACTIVITIES. DARK WEB PATTERN RECOGNITION AND CRIME ANALYSIS USING MACHINE INTELLIGENCE DISCUSSES CYBERATTACKS, SECURITY, AND SAFETY MEASURES TO PROTECT DATA AND PRESENTS THE SHORTCOMINGS FACED BY RESEARCHERS AND PRACTITIONERS DUE TO THE UNAVAILABILITY OF INFORMATION ABOUT THE DARK WEB. ATTACKER TECHNIQUES IN THESE DARK WEB ENVIRONMENTS ARE HIGHLIGHTED, ALONG WITH INTRUSION DETECTION PRACTICES AND CRAWLING OF HIDDEN CONTENT. COVERING A RANGE OF TOPICS SUCH AS MALWARE AND FOG COMPUTING, THIS REFERENCE WORK IS IDEAL FOR RESEARCHERS, ACADEMICIANS, PRACTITIONERS, INDUSTRY PROFESSIONALS, COMPUTER SCIENTISTS, SCHOLARS, INSTRUCTORS, AND STUDENTS.

INTELLIGENT SYSTEMS - SIBA K. UDGATA 2021-04-19

THIS BOOK FEATURES BEST SELECTED RESEARCH PAPERS PRESENTED AT THE INTERNATIONAL CONFERENCE ON MACHINE LEARNING, INTERNET OF THINGS AND BIG DATA (ICMIB 2020) HELD AT INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG, INDIA, DURING SEPTEMBER 2020. IT COMPRISES HIGH-QUALITY RESEARCH WORK BY ACADEMICIANS AND INDUSTRIAL EXPERTS IN THE FIELD OF MACHINE LEARNING, MOBILE COMPUTING, NATURAL LANGUAGE PROCESSING, FUZZY COMPUTING, GREEN COMPUTING, HUMAN-COMPUTER INTERACTION, INFORMATION RETRIEVAL, INTELLIGENT CONTROL, DATA MINING AND KNOWLEDGE DISCOVERY, EVOLUTIONARY COMPUTING, IoT AND APPLICATIONS IN SMART ENVIRONMENTS, SMART HEALTH, SMART CITY, WIRELESS NETWORKS, BIG DATA, CLOUD COMPUTING, BUSINESS INTELLIGENCE, INTERNET SECURITY, PATTERN RECOGNITION, PREDICTIVE ANALYTICS APPLICATIONS IN HEALTHCARE, SENSOR NETWORKS AND SOCIAL SENSING AND STATISTICAL ANALYSIS OF SEARCH TECHNIQUES.

HARNESSING SOCIAL MEDIA AS A KNOWLEDGE MANAGEMENT TOOL - CHUGH, RITESH 2016-07-13

KNOWLEDGE IS A VALUABLE RESOURCE THAT MUST BE MANAGED WELL FOR ANY ORGANIZATION TO THRIVE. PROPER KNOWLEDGE MANAGEMENT PRACTICES CAN IMPROVE BUSINESS PROCESSES BY CREATING VALUE, HOWEVER, THE AVAILABLE TOOLS MEANT TO AID IN THE CREATION, COLLECTION, AND STORAGE OF INFORMATION HAVE DRASTICALLY CHANGED SINCE THE EMERGENCE OF SOCIAL MEDIA. BY USING THIS COLLABORATIVE ONLINE APPLICATION FOR ENGAGING WITH INFORMATION, ORGANIZATIONS ARE ABLE TO PRECISELY DISSEMINATE KNOWLEDGE TO THE CORRECT AUDIENCE. HARNESSING SOCIAL MEDIA AS A KNOWLEDGE MANAGEMENT TOOL EXPLORES THE USAGE OF SOCIAL MEDIA IN MANAGING KNOWLEDGE FROM MULTIPLE DIMENSIONS HIGHLIGHTING THE BENEFITS, OPPORTUNITIES AND CHALLENGES THAT ARE ENCOUNTERED IN USING AND IMPLEMENTING SOCIAL MEDIA. THIS PUBLICATION ENDEAVORS TO PROVIDE A THOROUGH INSIGHT INTO THE ROLE OF SOCIAL MEDIA IN KNOWLEDGE MANAGEMENT FROM BOTH AN ORGANIZATIONAL AND INDIVIDUALISTIC PERSPECTIVE. THIS BOOK ELUCIDATES EMERGING STRATEGIES PERFECT FOR POLICY MAKERS, MANAGERS, ADVERTISERS, ACADEMICS, STUDENTS, AND ORGANIZATIONS WHO WISH TO EFFECTIVELY MANAGE KNOWLEDGE THROUGH SOCIAL MEDIA.

INTELLIGENT SYSTEMS - SIBA K. UDGATA

THIS BOOK FEATURES BEST SELECTED RESEARCH PAPERS PRESENTED AT THE INTERNATIONAL CONFERENCE ON MACHINE LEARNING, INTERNET OF THINGS, AND BIG DATA (ICMIB 2021) HELD AT INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG, INDIA, DURING DECEMBER 2021. IT COMPRISES HIGH-QUALITY RESEARCH WORK BY ACADEMICIANS AND INDUSTRIAL EXPERTS IN THE FIELD OF MACHINE LEARNING, MOBILE COMPUTING, NATURAL LANGUAGE PROCESSING, FUZZY COMPUTING, GREEN COMPUTING, HUMAN-COMPUTER INTERACTION, INFORMATION RETRIEVAL, INTELLIGENT CONTROL, DATA MINING AND KNOWLEDGE DISCOVERY, EVOLUTIONARY COMPUTING, IoT AND APPLICATIONS IN SMART ENVIRONMENTS, SMART

HEALTH, SMART CITY, WIRELESS NETWORKS, BIG DATA, CLOUD COMPUTING, BUSINESS INTELLIGENCE, INTERNET SECURITY, PATTERN RECOGNITION, PREDICTIVE ANALYTICS APPLICATIONS IN HEALTHCARE, SENSOR NETWORKS AND SOCIAL SENSING, AND STATISTICAL ANALYSIS OF SEARCH TECHNIQUES.

THE INTERNET OF EVERYTHING - NILANJAN DEY 2019-08-05

IN THE ERA BEFORE IoT, THE WORLD WIDE WEB, INTERNET, WEB 2.0 AND SOCIAL MEDIA MADE PEOPLE'S LIVES COMFORTABLE BY PROVIDING WEB SERVICES AND ENABLING ACCESS PERSONAL DATA IRRESPECTIVE OF THEIR LOCATION. FURTHER, TO SAVE TIME AND IMPROVE EFFICIENCY, THERE IS A NEED FOR MACHINE TO MACHINE COMMUNICATION, AUTOMATION, SMART COMPUTING AND UBIQUITOUS ACCESS TO PERSONAL DEVICES. THIS NEED GAVE BIRTH TO THE PHENOMENON OF INTERNET OF THINGS (IoT) AND FURTHER TO THE CONCEPT OF INTERNET OF

EVERYTHING (IoE). THIS BOOK AIMS TO PRESENT DIFFERENT ASPECTS OF IoE, CHALLENGES FACED BY IoE AND ITS APPLICATIONS, DIVIDED INTO 8 CHAPTERS. THIS MULTIFACETED COVERAGE OF THE VARIOUS VERTICALS AND IoT LAYERS IS THE MAIN ATTRACTION OF THIS BOOK.

INTELLIGENT CYBER-PHYSICAL SYSTEMS SECURITY FOR INDUSTRY 4.0 - JYOTI SEKHAR BANERJEE 2022

"INTELLIGENT CYBER-PHYSICAL SYSTEMS SECURITY FOR INDUSTRY 4.0: APPLICATIONS, CHALLENGES AND MANAGEMENT PRESENTS NEW CYBER-PHYSICAL SECURITY FINDINGS FOR INDUSTRY 4.0 USING EMERGING TECHNOLOGIES LIKE ARTIFICIAL INTELLIGENCE (WITH MACHINE / DEEP LEARNING), DATA MINING, APPLIED MATHEMATICS. ALL THESE ARE THE ESSENTIAL COMPONENTS FOR PROCESSING DATA, RECOGNIZING PATTERNS, MODELLING NEW TECHNIQUES, AND IMPROVING THE ADVANTAGES OF THE DATA SCIENCE MORE"--