

# Big Data And Ethics The Medical Datasphere Englis

AS RECOGNIZED, ADVENTURE AS WITHOUT DIFFICULTY AS EXPERIENCE ABOUT LESSON, AMUSEMENT, AS SKILLFULLY AS PROMISE CAN BE GOTTEN BY JUST CHECKING OUT A BOOK **BIG DATA AND ETHICS THE MEDICAL DATASPHERE ENGLIS** IN ADDITION TO IT IS NOT DIRECTLY DONE, YOU COULD ACKNOWLEDGE EVEN MORE ON THIS LIFE, ON THE SUBJECT OF THE WORLD.

WE PRESENT YOU THIS PROPER AS WELL AS EASY MANNERISM TO ACQUIRE THOSE ALL. WE PROVIDE BIG DATA AND ETHICS THE MEDICAL DATASPHERE ENGLIS AND NUMEROUS BOOKS COLLECTIONS FROM FICTIONS TO SCIENTIFIC RESEARCH IN ANY WAY. ACCOMPANIED BY THEM IS THIS BIG DATA AND ETHICS THE MEDICAL DATASPHERE ENGLIS THAT CAN BE YOUR PARTNER.

**ETHICS IN BIG DATA** JRME BRANGER 2016-04-27 FACED WITH THE EXPONENTIAL DEVELOPMENT OF BIG DATA AND BOTH ITS LEGAL AND ECONOMIC REPERCUSSIONS, WE ARE STILL SLIGHTLY IN THE DARK CONCERNING THE USE OF DIGITAL INFORMATION. IN THE PERPETUAL BALANCE BETWEEN CONFIDENTIALITY AND TRANSPARENCY, THIS DATA WILL LEAD US TO CALL INTO QUESTION HOW WE UNDERSTAND CERTAIN PARADIGMS, SUCH AS THE HIPPOCRATIC OATH IN MEDICINE. AS A CONSEQUENCE, A REFLECTION ON THE STUDY OF THE RISKS ASSOCIATED WITH THE ETHICAL ISSUES SURROUNDING THE DESIGN AND MANIPULATION OF THIS "MASSIVE DATA" SEEMS TO BE ESSENTIAL. THIS BOOK PROVIDES A DIRECTION AND ETHICAL VALUE TO THESE SIGNIFICANT VOLUMES OF DATA. IT PROPOSES AN ETHICAL ANALYSIS MODEL AND RECOMMENDATIONS TO BETTER KEEP THIS DATA IN CHECK. THIS EMPIRICAL AND ETHICO-TECHNICAL APPROACH BRINGS TOGETHER THE FIRST ASPECTS OF A MORAL FRAMEWORK DIRECTED TOWARD THOUGHT, CONSCIENCE AND THE RESPONSIBILITY OF CITIZENS CONCERNED BY THE USE OF DATA OF A PERSONAL NATURE. DEFINES BIG DATA APPLICATIONS IN HEALTH PRESENTS THE ETHICAL VALUE OF THE MEDICAL DATASPHERE VIA THE DESCRIPTION OF A MODEL OF AN ETHICAL ANALYSIS OF BIG DATA PROVIDES THE RECOMMENDATIONS AND STEPS NECESSARY FOR SUCCESSFUL MANAGEMENT AND GOVERNANCE OF PERSONAL HEALTH DATA HELPS READERS DETERMINE WHAT CONDITIONS ARE ESSENTIAL FOR THE DEVELOPMENT OF THE STUDY OF BIG DATA

**RESEARCH MANAGEMENT** JAN ANDERSEN 2017-11-15 RESEARCH MANAGEMENT: EUROPE AND BEYOND ADDRESSES THE MYRIAD RESPONSIBILITIES RELATED TO RESEARCH MANAGEMENT AND ADMINISTRATION. THE BOOK INCORPORATES NARRATIVES FROM THOSE WORKING IN THE FIELD TO PROVIDE INSIGHT INTO THE PROFESSION. THE BOOK ALSO OFFERS A UNIQUE PERSPECTIVE ON THE TOPIC BY INCORPORATING GLOBAL PERSPECTIVES TO ADDRESS THE GROWING INTERDISCIPLINARY NATURE OF RESEARCH COLLABORATION. THE BOOK OUTLINES PRACTICAL ADVICE FOR THOSE IN THE RESEARCH MANAGEMENT AND ADMINISTRATION PROFESSION AT ALL LEVELS OF EXPERIENCE. IT IS ALSO A USEFUL TOOL THAT RESEARCH INSTITUTIONS AND RESEARCH GROUPS CAN USE TO ASSIST IN PLANNING AND STREAMLINING THEIR RESEARCH SUPPORT. OFFERS A DEEPER UNDERSTANDING OF THE RESEARCH MANAGEMENT AND ADMINISTRATIVE LANDSCAPE THROUGH SINGLE AND COLLECTIVE DEFINITIONS AND EXPERIENCES PROVIDES AN OVERVIEW OF THE RESEARCH ENVIRONMENT AND EXPLORES THE INTERNATIONAL RESEARCH ARENA DISCUSSES SOME OF THE MOST COMPLEX ISSUES IN RESEARCH MANAGEMENT AND ADMINISTRATION BY COVERING TOPICS SUCH AS ETHICS, INNOVATION, RESEARCH IMPACT, ORGANIZATIONAL STRUCTURES, AND PROCESSES FOR THE PROJECT LIFE CYCLE

**DATA GOVERNANCE: THE DEFINITIVE GUIDE** EVREN ERYUREK 2021-03-08 AS YOU MOVE DATA TO THE CLOUD, YOU NEED TO CONSIDER A COMPREHENSIVE APPROACH TO DATA GOVERNANCE, ALONG WITH WELL-DEFINED AND AGREED-UPON POLICIES TO ENSURE YOUR ORGANIZATION MEETS COMPLIANCE REQUIREMENTS. DATA GOVERNANCE INCORPORATES THE WAYS PEOPLE, PROCESSES, AND TECHNOLOGY WORK TOGETHER TO ENSURE DATA IS TRUSTWORTHY AND CAN BE USED EFFECTIVELY. THIS PRACTICAL GUIDE SHOWS YOU HOW TO EFFECTIVELY IMPLEMENT AND SCALE DATA GOVERNANCE THROUGHOUT YOUR ORGANIZATION. CHIEF INFORMATION, DATA, AND SECURITY OFFICERS AND THEIR TEAMS WILL LEARN STRATEGY AND TOOLING TO SUPPORT DEMOCRATIZING DATA AND UNLOCKING ITS VALUE WHILE ENFORCING SECURITY, PRIVACY, AND OTHER GOVERNANCE STANDARDS. THROUGH GOOD DATA GOVERNANCE, YOU CAN INSPIRE CUSTOMER TRUST, ENABLE YOUR ORGANIZATION TO IDENTIFY BUSINESS EFFICIENCIES, GENERATE MORE COMPETITIVE OFFERINGS, AND IMPROVE CUSTOMER EXPERIENCE. THIS BOOK SHOWS YOU HOW. YOU'LL LEARN: DATA GOVERNANCE STRATEGIES ADDRESSING PEOPLE, PROCESSES, AND TOOLS BENEFITS AND CHALLENGES OF A CLOUD-BASED DATA GOVERNANCE APPROACH HOW DATA GOVERNANCE IS CONDUCTED FROM INGEST TO PREPARATION AND USE HOW TO HANDLE THE ONGOING IMPROVEMENT OF DATA QUALITY CHALLENGES AND TECHNIQUES IN GOVERNING STREAMING DATA DATA PROTECTION FOR AUTHENTICATION, SECURITY, BACKUP, AND MONITORING HOW TO BUILD A DATA CULTURE IN YOUR ORGANIZATION

**BIG DATA FOR DUMMIES** JUDITH S. HURWITZ 2013-04-02 FIND THE RIGHT BIG DATA SOLUTION FOR YOUR BUSINESS

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ORGANIZATION BIG DATA MANAGEMENT IS ONE OF THE MAJOR CHALLENGES FACING BUSINESS, INDUSTRY, AND NOT-FOR-PROFIT ORGANIZATIONS. DATA SETS SUCH AS CUSTOMER TRANSACTIONS FOR A MEGA-RETAILER, WEATHER PATTERNS MONITORED BY METEOROLOGISTS, OR SOCIAL NETWORK ACTIVITY CAN QUICKLY OUTPACE THE CAPACITY OF TRADITIONAL DATA MANAGEMENT TOOLS. IF YOU NEED TO DEVELOP OR MANAGE BIG DATA SOLUTIONS, YOU'LL APPRECIATE HOW THESE FOUR EXPERTS DEFINE, EXPLAIN, AND GUIDE YOU THROUGH THIS NEW AND OFTEN CONFUSING CONCEPT. YOU'LL LEARN WHAT IT IS, WHY IT MATTERS, AND HOW TO CHOOSE AND IMPLEMENT SOLUTIONS THAT WORK. EFFECTIVELY MANAGING BIG DATA IS AN ISSUE OF GROWING IMPORTANCE TO BUSINESSES, NOT-FOR-PROFIT ORGANIZATIONS, GOVERNMENT, AND IT PROFESSIONALS. AUTHORS ARE EXPERTS IN INFORMATION MANAGEMENT, BIG DATA, AND A VARIETY OF SOLUTIONS. EXPLAINS BIG DATA IN DETAIL AND DISCUSSES HOW TO SELECT AND IMPLEMENT A SOLUTION, SECURITY CONCERNS TO CONSIDER, DATA STORAGE AND PRESENTATION ISSUES, ANALYTICS, AND MUCH MORE. PROVIDES ESSENTIAL INFORMATION IN A NO-NONSENSE, EASY-TO-UNDERSTAND STYLE THAT IS EMPOWERING BIG DATA FOR DUMMIES CUTS THROUGH THE CONFUSION AND HELPS YOU TAKE CHARGE OF BIG DATA SOLUTIONS FOR YOUR ORGANIZATION.

**FOUNDATIONS OF INFORMATION ETHICS** JOHN T. F. BURGESS 2019-07-03 FOREWORD BY ROBERT HAUPTMAN AS DISCUSSIONS ABOUT THE ROLES PLAYED BY INFORMATION IN ECONOMIC, POLITICAL, AND SOCIAL ARENAS CONTINUE TO EVOLVE, THE NEED FOR AN INTELLECTUAL PRIMER ON INFORMATION ETHICS THAT ALSO FUNCTIONS AS A SOLID WORKING CASEBOOK FOR LIS STUDENTS AND PROFESSIONALS HAS NEVER BEEN MORE URGENT. THIS TEXT, WRITTEN BY A STELLAR GROUP OF ETHICS SCHOLARS AND CONTRIBUTORS FROM AROUND THE GLOBE, EXPERTLY FILLS THAT NEED. ORGANIZED INTO TWELVE CHAPTERS, MAKING IT IDEAL FOR USE BY INSTRUCTORS, THIS VOLUME FROM EDITORS BURGESS AND KNOX THOROUGHLY COVERS PRINCIPLES AND CONCEPTS IN INFORMATION ETHICS, AS WELL AS THE HISTORY OF ETHICS IN THE INFORMATION PROFESSIONS; EXAMINES HUMAN RIGHTS, INFORMATION ACCESS, PRIVACY, DISCOURSE, INTELLECTUAL PROPERTY, CENSORSHIP, DATA AND CYBERSECURITY ETHICS, INTERCULTURAL INFORMATION ETHICS, AND GLOBAL DIGITAL CITIZENSHIP AND RESPONSIBILITY; SYNTHESIZES THE PHILOSOPHICAL UNDERPINNINGS OF THESE KEY SUBJECTS WITH ABUNDANT PRIMARY SOURCE MATERIAL TO PROVIDE HISTORICAL CONTEXT ALONG WITH TIMELY AND RELEVANT CASE STUDIES; FEATURES CONTRIBUTIONS FROM JOHN M. BUDD, PAUL T. JAEGER, RACHEL FISCHER, MARGARET ZIMMERMAN, KATHRINE A. HENDERSON, PETER DARCH, MICHAEL ZIMMER, AND MASOODA BASHIR, AMONG OTHERS; AND OFFERS A SPECIAL CONCLUDING CHAPTER BY AMELIA GIBSON THAT EXPLORES EMERGING ISSUES IN INFORMATION ETHICS, INCLUDING DISCUSSIONS RANGING FROM THE ETHICS OF SOCIAL MEDIA AND SOCIAL MOVEMENTS TO AI DECISION MAKING. THIS IMPORTANT SURVEY WILL BE A KEY TEXT FOR LIS STUDENTS AND AN ESSENTIAL REFERENCE WORK FOR PRACTITIONERS.

**CAPTURING SOCIAL AND BEHAVIORAL DOMAINS AND MEASURES IN ELECTRONIC HEALTH RECORDS** INSTITUTE OF MEDICINE 2015-01-08 DETERMINANTS OF HEALTH - LIKE PHYSICAL ACTIVITY LEVELS AND LIVING CONDITIONS - HAVE TRADITIONALLY BEEN THE CONCERN OF PUBLIC HEALTH AND HAVE NOT BEEN LINKED CLOSELY TO CLINICAL PRACTICE. HOWEVER, IF STANDARDIZED SOCIAL AND BEHAVIORAL DATA CAN BE INCORPORATED INTO PATIENT ELECTRONIC HEALTH RECORDS (EHRs), THOSE DATA CAN PROVIDE CRUCIAL INFORMATION ABOUT FACTORS THAT INFLUENCE HEALTH AND THE EFFECTIVENESS OF TREATMENT. SUCH INFORMATION IS USEFUL FOR DIAGNOSIS, TREATMENT CHOICES, POLICY, HEALTH CARE SYSTEM DESIGN, AND INNOVATIONS TO IMPROVE HEALTH OUTCOMES AND REDUCE HEALTH CARE COSTS. **CAPTURING SOCIAL AND BEHAVIORAL DOMAINS AND MEASURES IN ELECTRONIC HEALTH RECORDS: PHASE 2** IDENTIFIES DOMAINS AND MEASURES THAT CAPTURE THE SOCIAL DETERMINANTS OF HEALTH TO INFORM THE DEVELOPMENT OF RECOMMENDATIONS FOR THE MEANINGFUL USE OF EHRs. THIS REPORT IS THE SECOND PART OF A TWO-PART STUDY. THE PHASE 1 REPORT IDENTIFIED 17 DOMAINS FOR INCLUSION IN EHRs. THIS REPORT PINPOINTS 12 MEASURES RELATED TO 11 OF THE INITIAL DOMAINS AND CONSIDERS THE IMPLICATIONS OF INCORPORATING THEM INTO ALL EHRs. THIS BOOK INCLUDES THREE CHAPTERS FROM THE PHASE 1 REPORT IN ADDITION TO THE NEW PHASE 2 MATERIAL. STANDARDIZED USE OF EHRs THAT INCLUDE SOCIAL AND BEHAVIORAL DOMAINS COULD PROVIDE BETTER PATIENT CARE, IMPROVE POPULATION HEALTH, AND ENABLE MORE INFORMATIVE RESEARCH. THE RECOMMENDATIONS OF **CAPTURING SOCIAL AND BEHAVIORAL DOMAINS AND MEASURES IN ELECTRONIC HEALTH RECORDS: PHASE 2** WILL PROVIDE VALUABLE INFORMATION ON WHICH TO BASE PROBLEM IDENTIFICATION, CLINICAL DIAGNOSES, PATIENT TREATMENT, OUTCOMES ASSESSMENT, AND POPULATION HEALTH MEASUREMENT.

**BIG DATA AND GLOBAL TRADE LAW** MIRA BURRI 2021-07-29 AN EXPLORATION OF THE CURRENT STATE OF GLOBAL TRADE LAW IN THE ERA OF BIG DATA AND AI. THIS TITLE IS ALSO AVAILABLE AS OPEN ACCESS ON CAMBRIDGE CORE.

*LEARNING ROBOTICS, WITH ROBOTICS, BY ROBOTICS* ILARIA GAUDIELLO 2016-09-16 THE RELATIONSHIP BETWEEN TECHNOLOGICAL AND PEDAGOGICAL INNOVATION HAS RECENTLY CREATED A NEW FIELD OF RESEARCH AT THE CROSSROADS BETWEEN PSYCHOLOGY, EDUCATIONAL SCIENCES AND ARTIFICIAL INTELLIGENCE: EDUCATIONAL ROBOTICS (ER). THROUGH ANALYSIS OF THE ACHIEVABLE EDUCATIONAL GOALS BASED ON THE TECHNOLOGICAL STATUS AND SPECIFIC LEARNING MODES OF DIFFERENT TYPES OF ROBOTS, IT IS POSSIBLE TO DEFINE THREE PEDAGOGICAL PARADIGMS: LEARNING ROBOTICS, LEARNING WITH ROBOTICS, AND LEARNING BY ROBOTICS. IN THIS BOOK WE ADDRESS THESE THREE PARADIGMS THROUGH THREE THEMES: HUMAN REPRESENTATIONS OF ROBOTS, THE ACCEPTANCE AND TRUST SHOWN WHEN INTERACTING WITH A HUMANOID, AND LEARNING FAVORED BY THE DEVELOPMENT AND

PROGRAMMING OF ROBOTS IN AN EDUCATIONAL CONTEXT. THESE THEMES ALLOW THE AUTHORS TO FULLY EXPLORE, DEFINE AND DELIMIT THIS NOVEL FIELD OF RESEARCH FOR FUTURE APPLICATION IN EDUCATIONAL AND SOCIAL CONTEXTS. FINALLY, THE BOOK DISCUSSES CONTRIBUTIONS AND LIMITATIONS WHICH HAVE EMERGED FROM DIFFERENT METHODOLOGIES OF RESEARCH, POTENTIAL EDUCATIONAL APPLICATIONS, AND CONCEPTS OF HUMAN-ROBOT INTERACTION FOR THE DEVELOPMENT OF THE ABOVE PARADIGMS.

RESEARCH ANTHOLOGY ON ARTIFICIAL INTELLIGENCE APPLICATIONS IN SECURITY MANAGEMENT ASSOCIATION, INFORMATION RESOURCES 2020-11-27 AS INDUSTRIES ARE RAPIDLY BEING DIGITALIZED AND INFORMATION IS BEING MORE HEAVILY STORED AND TRANSMITTED ONLINE, THE SECURITY OF INFORMATION HAS BECOME A TOP PRIORITY IN SECURING THE USE OF ONLINE NETWORKS AS A SAFE AND EFFECTIVE PLATFORM. WITH THE VAST AND DIVERSE POTENTIAL OF ARTIFICIAL INTELLIGENCE (AI) APPLICATIONS, IT HAS BECOME EASIER THAN EVER TO IDENTIFY CYBER VULNERABILITIES, POTENTIAL THREATS, AND THE IDENTIFICATION OF SOLUTIONS TO THESE UNIQUE PROBLEMS. THE LATEST TOOLS AND TECHNOLOGIES FOR AI APPLICATIONS HAVE UNTAPPED POTENTIAL THAT CONVENTIONAL SYSTEMS AND HUMAN SECURITY SYSTEMS CANNOT MEET, LEADING AI TO BE A FRONTRUNNER IN THE FIGHT AGAINST MALWARE, CYBER-ATTACKS, AND VARIOUS SECURITY ISSUES. HOWEVER, EVEN WITH THE TREMENDOUS PROGRESS AI HAS MADE WITHIN THE SPHERE OF SECURITY, IT'S IMPORTANT TO UNDERSTAND THE IMPACTS, IMPLICATIONS, AND CRITICAL ISSUES AND CHALLENGES OF AI APPLICATIONS ALONG WITH THE MANY BENEFITS AND EMERGING TRENDS IN THIS ESSENTIAL FIELD OF SECURITY-BASED RESEARCH. RESEARCH ANTHOLOGY ON ARTIFICIAL INTELLIGENCE APPLICATIONS IN SECURITY SEEKS TO ADDRESS THE FUNDAMENTAL ADVANCEMENTS AND TECHNOLOGIES BEING USED IN AI APPLICATIONS FOR THE SECURITY OF DIGITAL DATA AND INFORMATION. THE INCLUDED CHAPTERS COVER A WIDE RANGE OF TOPICS RELATED TO AI IN SECURITY STEMMING FROM THE DEVELOPMENT AND DESIGN OF THESE APPLICATIONS, THE LATEST TOOLS AND TECHNOLOGIES, AS WELL AS THE UTILIZATION OF AI AND WHAT CHALLENGES AND IMPACTS HAVE BEEN DISCOVERED ALONG THE WAY. THIS RESOURCE WORK IS A CRITICAL EXPLORATION OF THE LATEST RESEARCH ON SECURITY AND AN OVERVIEW OF HOW AI HAS IMPACTED THE FIELD AND WILL CONTINUE TO ADVANCE AS AN ESSENTIAL TOOL FOR SECURITY, SAFETY, AND PRIVACY ONLINE. THIS BOOK IS IDEALLY INTENDED FOR CYBER SECURITY ANALYSTS, COMPUTER ENGINEERS, IT SPECIALISTS, PRACTITIONERS, STAKEHOLDERS, RESEARCHERS, ACADEMICIANS, AND STUDENTS INTERESTED IN AI APPLICATIONS IN THE REALM OF SECURITY RESEARCH.

ECONOMICS OF INFORMATION SECURITY L. JEAN CAMP 2006-04-11 DESIGNED FOR MANAGERS STRUGGLING TO UNDERSTAND THE RISKS IN ORGANIZATIONS DEPENDENT ON SECURE NETWORKS, THIS BOOK APPLIES ECONOMICS NOT TO GENERATE BREAKTHROUGHS IN THEORETICAL ECONOMICS, BUT RATHER BREAKTHROUGHS IN UNDERSTANDING THE PROBLEMS OF SECURITY.

**PUBLIC-PRIVATE PARTNERSHIPS AS DRIVERS OF INNOVATION IN HEALTHCARE, 2ND EDITION** HILDE STEVENS 2020-08-04 MULTI-STAKEHOLDER COLLABORATIONS INVOLVING PARTNERS FROM PUBLIC AND PRIVATE SECTORS ARE ESSENTIAL TO ADDRESS GLOBAL HEALTH CHALLENGES AND TO MOVE PRECISION MEDICINE FORWARD. THIS eBook ASSEMBLES A COLLECTION OF PAPERS WHICH EITHER ILLUSTRATE RECENT ACHIEVEMENTS OR DISCUSS NEW PERSPECTIVES OFFERED BY PUBLIC-PRIVATE PARTNERSHIPS IN HEALTHCARE. PUBLISHER'S NOTE: IN THIS 2ND EDITION, THE FOLLOWING ARTICLE HAS BEEN ADDED: LAVERTY H AND MEULIEN P (2019) THE INNOVATIVE MEDICINES INITIATIVE – 10 YEARS OF PUBLIC-PRIVATE COLLABORATION. FRONT. MED. 6:275. DOI: 10.3389/fmed.2019.00275

**MONEYBALL MEDICINE** HARRY GLORIKIAN 2017-11-20 HOW CAN A SMARTWATCH HELP PATIENTS WITH DIABETES MANAGE THEIR DISEASE? WHY CAN'T PATIENTS FIND OUT PRICES FOR SURGERIES AND OTHER PROCEDURES BEFORE THEY HAPPEN? HOW CAN RESEARCHERS SPEED UP THE DECADE-LONG PROCESS OF DRUG DEVELOPMENT? HOW WILL "PRECISION MEDICINE" IMPACT PATIENT CARE OUTSIDE OF CANCER? WHAT CAN DOCTORS, HOSPITALS, AND HEALTH SYSTEMS DO TO ENSURE THEY ARE MAXIMIZING HIGH-VALUE CARE? HOW CAN HEALTHCARE ENTREPRENEURS FIND SUCCESS IN THIS DATA-DRIVEN MARKET? A REVOLUTION IS TRANSFORMING THE \$10 TRILLION HEALTHCARE LANDSCAPE, PROMISING GREATER TRANSPARENCY, IMPROVED EFFICIENCY, AND NEW WAYS OF DELIVERING CARE. THIS NEW LANDSCAPE PRESENTS TREMENDOUS OPPORTUNITY FOR THOSE WHO ARE READY TO EMBRACE THE DATA-DRIVEN REALITY. HAVING THE RIGHT DATA AND KNOWING HOW TO USE IT WILL BE THE KEY TO SUCCESS IN THE HEALTHCARE MARKET IN THE FUTURE. WE ARE ALREADY STARTING TO SEE THE IMPACTS IN DRUG DEVELOPMENT, PRECISION MEDICINE, AND HOW PATIENTS WITH RARE DISEASES ARE DIAGNOSED AND TREATED. STARTUPS ARE LAUNCHED EVERY WEEK TO FILL AN UNMET NEED AND ADDRESS THE CURRENT PROBLEMS IN THE HEALTHCARE SYSTEM. DIGITAL DEVICES AND ARTIFICIAL INTELLIGENCE ARE HELPING DOCTORS DO THEIR JOBS FASTER AND WITH MORE ACCURACY. MONEYBALL MEDICINE: THRIVING IN THE NEW DATA-DRIVEN HEALTHCARE MARKET, WHICH INCLUDES INTERVIEWS WITH DOZENS OF HEALTHCARE LEADERS, DESCRIBES THE BUSINESS CHALLENGES AND OPPORTUNITIES ARISING FOR THOSE WORKING IN ONE OF THE MOST VIBRANT SECTORS OF THE WORLD'S ECONOMY. DOCTORS, HOSPITAL ADMINISTRATORS, HEALTH INFORMATION TECHNOLOGY DIRECTORS, AND ENTREPRENEURS NEED TO ADAPT TO THE CHANGES EFFECTING HEALTHCARE TODAY IN ORDER TO SUCCEED IN THE NEW, COST-CONSCIOUS AND VALUE-BASED ENVIRONMENT OF THE FUTURE. THE AUTHORS MAP OUT MANY OF THE CHANGES TAKING PLACE, DESCRIBE HOW THEY ARE IMPACTING EVERYONE FROM PATIENTS TO RESEARCHERS TO INSURERS, AND OUTLINE SOME PREDICTIONS FOR THE HEALTHCARE INDUSTRY IN THE YEARS TO COME.

**THE UNCERTAIN DIGITAL REVOLUTION** ANDRÉ VITALIS 2016-10-03 DIGITAL INFORMATION AND COMMUNICATION TECHNOLOGIES ARE SEEN AS A THREAT TO PRIVACY, A STEP FORWARD FOR FREEDOM OF EXPRESSION AND COMMUNICATION, A TOOL IN THE FIGHT AGAINST TERRORISM OR THE SOURCE OF A NEW ECONOMIC WEALTH. THIS BOOK REVISITS THE MAJOR ISSUES THAT HAVE EMERGED WITH THE PROGRESS OF COMPUTERIZATION BY DESCRIBING THE CONTEXT, FINDING THE TERMS IN WHICH THESE ISSUES WERE FORMULATED AND TO MOBILIZE THE THEORETICAL GRIDS FOR A BETTER UNDERSTANDING. IT REFLECTS ON THE VARIOUS QUESTIONS ASKED REGARDING THE FREEDOMS OF INDIVIDUAL. BETWEEN INDIVIDUALISM AND REINFORCED PERVASIVE CONTROL, IT ALLOWS A BETTER UNDERSTANDING OF THE ESSENTIAL ISSUES OF THE CURRENT "DIGITAL REVOLUTION".

**THE ETHICS OF MEDICAL DATA DONATION** JENNY KRUTZINNA 2019-01-16 THIS OPEN ACCESS BOOK PRESENTS AN ETHICAL APPROACH TO UTILIZING PERSONAL MEDICAL DATA. IT FEATURES ESSAYS THAT COMBINE ACADEMIC ARGUMENT WITH PRACTICAL APPLICATION OF ETHICAL PRINCIPLES. THE CONTRIBUTORS ARE EXPERTS IN ETHICS AND LAW. THEY ADDRESS THE CHALLENGES IN THE RE-USE OF MEDICAL DATA OF THE DECEASED ON A VOLUNTARY BASIS. THIS PIONEERING STUDY LOOKS AT THE MANY FACTORS INVOLVED WHEN INDIVIDUALS AND ORGANIZATIONS WISH TO SHARE INFORMATION FOR RESEARCH, POLICY-MAKING, AND HUMANITARIAN PURPOSES. TODAY, IT IS EASY TO DONATE BLOOD OR EVEN ORGANS, BUT IT IS VIRTUALLY IMPOSSIBLE TO DONATE ONE'S OWN MEDICAL DATA. THIS IS SEEN AS ETHICALLY UNACCEPTABLE. YET, DATA DONATION CAN GREATLY BENEFIT THE WELFARE OF OUR SOCIETIES. THIS COLLECTION PROVIDES TIMELY INTERDISCIPLINARY RESEARCH ON BIOMEDICAL BIG DATA. TOPICS INCLUDE THE ETHICS OF DATA DONATION, THE LEGAL AND REGULATORY CHALLENGES, AND THE CURRENT AND FUTURE COLLABORATIONS. READERS WILL LEARN ABOUT THE ETHICAL AND REGULATORY CHALLENGES ASSOCIATED WITH MEDICAL DATA DONATIONS. THEY WILL ALSO BETTER UNDERSTAND THE SPECIAL NATURE OF USING DECEASED DATA FOR RESEARCH PURPOSES WITH REGARD TO ETHICAL PRINCIPLES OF AUTONOMY, BENEFICENCE, AND JUSTICE. IN ADDITION, THE CONTRIBUTORS IDENTIFY THE KEY GOVERNANCE ISSUES OF SUCH A SCHEME. THE ESSAYS ALSO LOOK AT WHAT WE CAN LEARN IN TERMS OF BEST PRACTICE FROM EXISTING MEDICAL DATA SCHEMES.

**SOCIETAL RESPONSIBILITY OF ARTIFICIAL INTELLIGENCE** JEROME BERANGER 2021-06-02 THE DIGITAL WORLD IS CHARACTERIZED BY ITS IMMEDIACY, ITS DENSITY OF INFORMATION AND ITS OMNIPRESENCE, IN CONTRAST TO THE CONCRETE WORLD. SIGNIFICANT CHANGES WILL OCCUR IN OUR SOCIETY AS AI BECOMES INTEGRATED INTO MANY ASPECTS OF OUR LIVES. THIS BOOK FOCUSES ON THIS VISION OF UNIVERSALIZATION BY DEALING WITH THE DEVELOPMENT AND FRAMEWORK OF AI APPLICABLE TO ALL. IT DEVELOPS A MORAL FRAMEWORK BASED ON A NEO-DARWINIAN APPROACH - THE CONCEPT OF ETHICS BY EVOLUTION - TO ACCOMPANY AI BY OBSERVING A CERTAIN NUMBER OF REQUIREMENTS, RECOMMENDATIONS AND RULES AT EACH STAGE OF DESIGN, IMPLEMENTATION AND USE. THE SOCIETAL RESPONSIBILITY OF ARTIFICIAL INTELLIGENCE IS AN ESSENTIAL STEP TOWARDS ETHICAL, ECO-RESPONSIBLE AND TRUSTWORTHY AI, AIMING TO PROTECT AND SERVE PEOPLE AND THE COMMON GOOD IN A BENEFICIAL WAY.

*THE ETHICS OF BIOMEDICAL BIG DATA* BRENT DANIEL MITTELSTADT 2016-08-03 THIS BOOK PRESENTS CUTTING EDGE RESEARCH ON THE NEW ETHICAL CHALLENGES POSED BY BIOMEDICAL BIG DATA TECHNOLOGIES AND PRACTICES. 'BIOMEDICAL BIG DATA' REFERS TO THE ANALYSIS OF AGGREGATED, VERY LARGE DATASETS TO IMPROVE MEDICAL KNOWLEDGE AND CLINICAL CARE. THE BOOK DESCRIBES THE ETHICAL PROBLEMS POSED BY AGGREGATION OF BIOMEDICAL DATASETS AND RE-USE/RE-PURPOSING OF DATA, IN AREAS SUCH AS PRIVACY, CONSENT, PROFESSIONALISM, POWER RELATIONSHIPS, AND ETHICAL GOVERNANCE OF BIG DATA PLATFORMS. APPROACHES AND METHODS ARE DISCUSSED THAT CAN BE USED TO ADDRESS THESE PROBLEMS TO ACHIEVE THE APPROPRIATE BALANCE BETWEEN THE SOCIAL GOODS OF BIOMEDICAL BIG DATA RESEARCH AND THE SAFETY AND PRIVACY OF INDIVIDUALS. SEVENTEEN ORIGINAL CONTRIBUTIONS ANALYSE THE ETHICAL, SOCIAL AND RELATED POLICY IMPLICATIONS OF THE ANALYSIS AND CURATION OF BIOMEDICAL BIG DATA, WRITTEN BY LEADING EXPERTS IN THE AREAS OF BIOMEDICAL RESEARCH, MEDICAL AND TECHNOLOGY ETHICS, PRIVACY, GOVERNANCE AND DATA PROTECTION. THE BOOK ADVANCES OUR UNDERSTANDING OF THE ETHICAL CONUNDRUMS POSED BY BIOMEDICAL BIG DATA, AND SHOWS HOW PRACTITIONERS AND POLICY-MAKERS CAN ADDRESS THESE ISSUES GOING FORWARD.

DIGITAL IDENTITIES IN TENSION ARMEN KHATCHATOUROV 2019-06-04 DIGITAL IDENTITIES IN TENSION DEALS WITH THE AMBIVALENCE OF UNIVERSAL DIGITALIZATION. WHILE THIS TRANSFORMATION OPENS UP NEW POSSIBILITIES, IT ALSO REDISTRIBUTES THE INTERPLAY OF CONSTRAINTS AND INCENTIVES, AND TENDS INSIDIOLUSLY TO CREATE A GREATER MALLEABILITY OF INDIVIDUALS. TODAY, COMPANIES AND STATES ARE INCREASINGLY ENGAGED IN THE SURVEILLANCE AND MANAGEMENT OF OUR DIGITAL IDENTITIES. IN RESPONSE, WE MUST STUDY THE EFFECTS THAT THE NEW INDUSTRIAL, ECONOMIC AND POLITICAL LOGICS HAVE ON ETHICAL ISSUES AND OUR ABILITY TO ACT. THIS BOOK EXAMINES THE EFFECTS OF DIGITALIZATION ON NEW MODES OF EXISTENCE AND SUBJECTIVATION IN MANY SPHERES: DIGITAL IDENTITY MANAGEMENT SYSTEMS, BIG DATA AND MACHINE LEARNING, THE INTERNET OF THINGS, SMART CITIES, ETC. THE STUDY OF THESE TRANSFORMATIONS IS ONE OF THE MAJOR CONDITIONS FOR MORE RESPONSIBLE MODES OF DATA GOVERNANCE TO EMERGE.

*SHARING CLINICAL TRIAL DATA* INSTITUTE OF MEDICINE 2015-04-20 DATA SHARING CAN ACCELERATE NEW DISCOVERIES BY AVOIDING DUPLICATIVE TRIALS, STIMULATING NEW IDEAS FOR RESEARCH, AND ENABLING THE MAXIMAL SCIENTIFIC KNOWLEDGE AND BENEFITS TO BE GAINED FROM THE EFFORTS OF CLINICAL TRIAL PARTICIPANTS AND INVESTIGATORS. AT THE SAME TIME, SHARING CLINICAL TRIAL DATA PRESENTS RISKS, BURDENS, AND CHALLENGES. THESE INCLUDE THE NEED TO PROTECT THE PRIVACY AND HONOR THE CONSENT OF CLINICAL TRIAL PARTICIPANTS; SAFEGUARD THE LEGITIMATE ECONOMIC INTERESTS OF SPONSORS; AND GUARD AGAINST INVALID SECONDARY ANALYSES, WHICH COULD UNDERMINE TRUST IN CLINICAL TRIALS OR OTHERWISE HARM PUBLIC HEALTH. SHARING CLINICAL TRIAL DATA PRESENTS ACTIVITIES AND STRATEGIES FOR THE RESPONSIBLE SHARING OF CLINICAL TRIAL DATA. WITH THE GOAL OF INCREASING SCIENTIFIC KNOWLEDGE TO LEAD TO BETTER THERAPIES FOR PATIENTS, THIS BOOK IDENTIFIES GUIDING PRINCIPLES AND MAKES RECOMMENDATIONS TO MAXIMIZE THE BENEFITS AND MINIMIZE RISKS. THIS REPORT OFFERS GUIDANCE ON THE TYPES OF CLINICAL TRIAL DATA AVAILABLE AT DIFFERENT POINTS IN THE PROCESS, THE POINTS IN THE PROCESS AT WHICH EACH TYPE OF DATA SHOULD BE SHARED, METHODS FOR SHARING DATA, WHAT GROUPS SHOULD HAVE ACCESS TO DATA, AND FUTURE KNOWLEDGE AND INFRASTRUCTURE NEEDS. RESPONSIBLE SHARING OF CLINICAL TRIAL DATA WILL ALLOW OTHER INVESTIGATORS TO REPLICATE PUBLISHED FINDINGS AND CARRY OUT ADDITIONAL ANALYSES, STRENGTHEN THE EVIDENCE BASE FOR REGULATORY AND CLINICAL DECISIONS, AND INCREASE THE SCIENTIFIC KNOWLEDGE GAINED FROM INVESTMENTS BY THE FUNDERS OF CLINICAL TRIALS. THE RECOMMENDATIONS OF SHARING CLINICAL TRIAL DATA WILL BE USEFUL BOTH NOW AND WELL INTO THE FUTURE AS IMPROVED SHARING OF DATA LEADS TO A STRONGER EVIDENCE BASE FOR TREATMENT. THIS BOOK WILL BE OF INTEREST TO STAKEHOLDERS ACROSS THE SPECTRUM OF RESEARCH--FROM FUNDERS, TO RESEARCHERS, TO JOURNALS, TO PHYSICIANS, AND ULTIMATELY, TO PATIENTS.

*THE HUMAN CHALLENGE OF TELEMEDICINE* PHILIPPE BARDY 2018-11-27 TELEPATIENTS USING CONNECTED OBJECTS TO COLLECT TIME-SENSITIVE DATA ABOUT THEIR HEALTH ARE NOT NEUTRAL CARRIERS OF DIAGNOSABLE SYMPTOMS. PATIENTS ARE PERSONS, OR PERSONAL BEINGS AS WELL AS CO-CARERS, WHOSE PERSONAL EXPERIENCE, HISTORY AND KNOW-HOW MUST BE ACKNOWLEDGED IN TIME-SENSITIVE TELECare PRACTICES. SUCH PRACTICES REQUIRE A RELATIONAL ETHICS, INSPIRED BY MEDICAL ETHICS AND AN ETHICS OF VIRTUES, FOCUSING ON VULNERABILITY AND EMOTIONAL HEALTH, TO OVERSEE TELECare GOOD PRACTICES, DEFINE A NEW THERAPEUTIC ALLIANCE COMPLIANT WITH PATIENTS' VALUES, AND RECONCILE THE TECHNICAL AND HUMAN SIDES OF TELEMEDICINE. THE ETHICAL CHALLENGES OF TELEMEDICINE IN CHRONIC PATIENTS TODAY THE KEY FEATURES OF A PERSON-CENTERED AND RELATIONAL ETHICS IN TELEMEDICAL SETTINGS THE CONCEPTS OF "EMOTIONAL HEALTH CARE AND "CHRONO-SENSITIVITY OF THE "CONNECTED SICK BODY

*BEYOND THE HIPAA PRIVACY RULE* INSTITUTE OF MEDICINE 2009-03-24 IN THE REALM OF HEALTH CARE, PRIVACY PROTECTIONS ARE NEEDED TO PRESERVE PATIENTS' DIGNITY AND PREVENT POSSIBLE HARMS. TEN YEARS AGO, TO ADDRESS THESE CONCERNS AS WELL AS SET GUIDELINES FOR ETHICAL HEALTH RESEARCH, CONGRESS CALLED FOR A SET OF FEDERAL STANDARDS NOW KNOWN AS THE HIPAA PRIVACY RULE. IN ITS 2009 REPORT, BEYOND THE HIPAA PRIVACY RULE: ENHANCING PRIVACY, IMPROVING HEALTH THROUGH RESEARCH, THE INSTITUTE OF MEDICINE'S COMMITTEE ON HEALTH RESEARCH AND THE PRIVACY OF HEALTH INFORMATION CONCLUDES THAT THE HIPAA PRIVACY RULE DOES NOT PROTECT PRIVACY AS WELL AS IT SHOULD, AND THAT IT IMPEDES IMPORTANT HEALTH RESEARCH.

*THE ELEMENTS OF BIG DATA VALUE* EDWARD CURRY 2021-08-01 THIS OPEN ACCESS BOOK PRESENTS THE FOUNDATIONS OF THE BIG DATA RESEARCH AND INNOVATION ECOSYSTEM AND THE ASSOCIATED ENABLERS THAT FACILITATE DELIVERING VALUE FROM DATA FOR BUSINESS AND SOCIETY. IT PROVIDES INSIGHTS INTO THE KEY ELEMENTS FOR RESEARCH AND INNOVATION, TECHNICAL ARCHITECTURES, BUSINESS MODELS, SKILLS, AND BEST PRACTICES TO SUPPORT THE CREATION OF DATA-DRIVEN SOLUTIONS AND ORGANIZATIONS. THE BOOK IS A COMPILATION OF SELECTED HIGH-QUALITY CHAPTERS COVERING BEST PRACTICES, TECHNOLOGIES, EXPERIENCES, AND PRACTICAL RECOMMENDATIONS ON RESEARCH AND INNOVATION FOR BIG DATA. THE CONTRIBUTIONS ARE GROUPED INTO FOUR PARTS: · PART I: ECOSYSTEM ELEMENTS OF BIG DATA VALUE FOCUSES ON ESTABLISHING THE BIG DATA VALUE ECOSYSTEM USING A HOLISTIC APPROACH TO MAKE IT ATTRACTIVE AND VALUABLE TO ALL STAKEHOLDERS. · PART II: RESEARCH AND INNOVATION ELEMENTS OF BIG DATA VALUE DETAILS THE KEY TECHNICAL AND CAPABILITY CHALLENGES TO BE ADDRESSED FOR DELIVERING BIG DATA VALUE. · PART III: BUSINESS, POLICY, AND SOCIETAL ELEMENTS OF BIG DATA VALUE INVESTIGATES THE NEED TO MAKE MORE EFFICIENT USE OF BIG DATA AND UNDERSTANDING THAT DATA IS AN ASSET THAT HAS SIGNIFICANT POTENTIAL FOR THE ECONOMY AND SOCIETY. · PART IV: EMERGING ELEMENTS OF BIG DATA VALUE EXPLORES THE CRITICAL ELEMENTS TO MAXIMIZING THE FUTURE POTENTIAL OF BIG DATA VALUE. OVERALL, READERS ARE PROVIDED WITH INSIGHTS WHICH CAN SUPPORT THEM IN CREATING DATA-DRIVEN SOLUTIONS, ORGANIZATIONS, AND PRODUCTIVE DATA ECOSYSTEMS. THE MATERIAL REPRESENTS THE RESULTS OF A COLLECTIVE EFFORT UNDERTAKEN BY THE EUROPEAN DATA COMMUNITY AS PART OF THE BIG DATA VALUE PUBLIC-PRIVATE PARTNERSHIP (PPP) BETWEEN THE EUROPEAN COMMISSION AND THE BIG DATA VALUE ASSOCIATION (BDVA) TO BOOST DATA-DRIVEN DIGITAL TRANSFORMATION.

**TİBBİ DOKÜMAN MANTASYON VE SEKRETERLİK EL KİTABI** MUSA YALIN-ROZA SÖLEYMANOĞLU DİNLER 2020-01-17  
GÜNÜMÜZDE SAĞLIK HİZMETLERİ FARKLI MESLEK GRUPLARININ BİRLİKTE KOORDİNELİ BİR EKİLDE HİZMET VERDİĞİ VE YAKLEŞİK  
TEKNOLOJİNİN KULLANILDIĞI BİR YAPILARCA BİR NİTELİKTE. TİBBİ SEKRETERLER BU SAĞLIK EKİBİNİN NEMLİ BİR PARÇASI  
SAĞLIK KURULUŞUNA BAĞLI VURAN HASTANIN İLK BAŞVURU ANINDAN TABURCU OLANA KADAR GEÇEN SÜRECİN TEMEL  
AMALARI NEMLİ GÖREVLERİNİ STLENMEKTEDİR. STLENDİKLERİ GÖREVLERİ EN İYİ EKİLDE YERİNE GETİREBİLMESİ İÇİN TİBBİ  
SEKRETERLERİN İYİ BİR EĞİTİM ALMASI VE NEMİ HER GEÇEN GÜN ARTMAKTADIR. YURT DİŞİNDE 1912'Lİ YILLARA KADAR  
DAYANAN TİBBİ DOKÜMAN MANTASYON VE SEKRETERLİK EĞİTİMİ İLKEMİZDE OLDUKÇA YENİDİR. TİBBİ DOKÜMAN MANTASYON VE SEKRETERLİK  
PROGRAMI, İLK DEFA 1974-1975 EĞİTİM RETİMİNDE HACETTEPE NİVERSİTESİ SAĞLIK TEKNOLOJİSİ  
YAKLEŞİK KESKOKULUNDA 34 ÖĞRENCİ İLE HİZMET VERMEYE BAŞLANMIŞTIR. ANCAK DÖNEM SONUNDA BİLİMİN KAPATILMASI  
PARALEL OLARAK EĞİTİM GÖRMEKTE OLAN ÖĞRENCİLERİN 14'Ü HACETTEPE NİVERSİTESİNDE DOKÜMAN YAKLEŞİK LİSANS EĞİTİMİ AL  
DIĞI İN AYNI YILLARLAN HASTANE DARESİ YAKLEŞİK KESKOKULUNA 2. SİNİFTAN BAŞLAMIŞTIR.

## **NETWORKS OF CONTROL** WOLFIE CHRISTL 2016-09-29

**APPLICATION OF BIG DATA FOR NATIONAL SECURITY** BABAK AKHGAR 2015-02-19 APPLICATION OF BIG DATA FOR NATIONAL SECURITY PROVIDES USERS WITH STATE-OF-THE-ART CONCEPTS, METHODS, AND TECHNOLOGIES FOR BIG DATA ANALYTICS IN THE FIGHT AGAINST TERRORISM AND CRIME, INCLUDING A WIDE RANGE OF CASE STUDIES AND APPLICATION SCENARIOS. THIS BOOK COMBINES EXPERTISE FROM AN INTERNATIONAL TEAM OF EXPERTS IN LAW ENFORCEMENT, NATIONAL SECURITY, AND LAW, AS WELL AS COMPUTER SCIENCES, CRIMINOLOGY, LINGUISTICS, AND PSYCHOLOGY, CREATING A UNIQUE CROSS-DISCIPLINARY COLLECTION OF KNOWLEDGE AND INSIGHTS INTO THIS INCREASINGLY GLOBAL ISSUE. THE STRATEGIC FRAMEWORKS AND CRITICAL FACTORS PRESENTED IN APPLICATION OF BIG DATA FOR NATIONAL SECURITY CONSIDER TECHNICAL, LEGAL, ETHICAL, AND SOCIETAL IMPACTS, BUT ALSO PRACTICAL CONSIDERATIONS OF BIG DATA SYSTEM DESIGN AND DEPLOYMENT, ILLUSTRATING HOW DATA AND SECURITY CONCERNS INTERSECT. IN IDENTIFYING CURRENT AND FUTURE TECHNICAL AND OPERATIONAL CHALLENGES IT SUPPORTS LAW ENFORCEMENT AND GOVERNMENT AGENCIES IN THEIR OPERATIONAL, TACTICAL AND STRATEGIC DECISIONS WHEN EMPLOYING BIG DATA FOR NATIONAL SECURITY CONTEXTUALIZES THE BIG DATA CONCEPT AND HOW IT RELATES TO NATIONAL SECURITY AND CRIME DETECTION AND PREVENTION PRESENTS STRATEGIC APPROACHES FOR THE DESIGN, ADOPTION, AND DEPLOYMENT OF BIG DATA TECHNOLOGIES IN PREVENTING TERRORISM AND REDUCING CRIME INCLUDES A SERIES OF CASE STUDIES AND SCENARIOS TO DEMONSTRATE THE APPLICATION OF BIG DATA IN A NATIONAL SECURITY CONTEXT INDICATES FUTURE DIRECTIONS FOR BIG DATA AS AN ENABLER OF ADVANCED CRIME PREVENTION AND DETECTION

**NEW INSIGHTS INTO BAYESIAN INFERENCE** MOHAMMAD SABER FALLAH NEZHAD 2018-05-02 THIS BOOK IS AN INTRODUCTION TO THE MATHEMATICAL ANALYSIS OF BAYESIAN DECISION-MAKING WHEN THE STATE OF THE PROBLEM IS UNKNOWN BUT FURTHER DATA ABOUT IT CAN BE OBTAINED. THE OBJECTIVE OF SUCH ANALYSIS IS TO DETERMINE THE OPTIMAL DECISION OR SOLUTION THAT IS LOGICALLY CONSISTENT WITH THE PREFERENCES OF THE DECISION-MAKER, THAT CAN BE ANALYZED USING NUMERICAL UTILITIES OR CRITERIA WITH THE PROBABILITIES ASSIGNED TO THE POSSIBLE STATE OF THE PROBLEM, SUCH THAT THESE PROBABILITIES ARE UPDATED BY GATHERING NEW INFORMATION.

**IoT PLATFORMS, USE CASES, PRIVACY, AND BUSINESS MODELS** CARNA ŽIVKOVIC 2020-07-21 THIS BOOK PROVIDES A COMPREHENSIVE AND CONSISTENT INTRODUCTION TO THE INTERNET OF THINGS. HOT TOPICS, INCLUDING THE EUROPEAN PRIVACY LEGISLATION GDPR, AND HOMOMORPHIC ENCRYPTION ARE EXPLAINED. FOR EACH TOPIC, THE READER GETS A THEORETICAL INTRODUCTION AND AN OVERVIEW, BACKED BY PROGRAMMING EXAMPLES. FOR DEMONSTRATION, THE AUTHORS USE THE IoT PLATFORM VICINITY, WHICH IS OPEN-SOURCE, FREE, AND OFFERS LEADING STANDARDS FOR PRIVACY. PRESENTS READERS WITH A COHERENT SINGLE-SOURCE INTRODUCTION INTO THE IoT; INTRODUCES SELECTED, HOT-TOPICS OF IoT, INCLUDING GDPR (EUROPEAN LEGISLATION ON DATA PROTECTION), AND HOMOMORPHIC ENCRYPTION; PROVIDES CODING EXAMPLES FOR MOST TOPICS THAT ALLOW THE READER TO KICK-START HIS OWN IoT APPLICATIONS, SMART SERVICES, ETC.

**DATA ACTIVISM AND SOCIAL CHANGE** MIREN GUTIÉRREZ 2018-05-02 THIS BOOK EFFICIENTLY CONTRIBUTES TO OUR UNDERSTANDING OF THE INTERPLAY BETWEEN DATA, TECHNOLOGY AND COMMUNICATIVE PRACTICE ON THE ONE HAND, AND DEMOCRATIC PARTICIPATION ON THE OTHER. IT ADDRESSES THE EMERGENCE OF PROACTIVE DATA ACTIVISM, A NEW SOCIOTECHNICAL PHENOMENON IN THE FIELD OF ACTION THAT ARISES AS A REACTION TO MASSIVE DATAFICATION, AND MAKES AFFIRMATIVE USE OF DATA FOR ADVOCACY AND SOCIAL CHANGE. BY BLENDING EMPIRICAL OBSERVATION AND IN-DEPTH QUALITATIVE INTERVIEWS, GUTIÉRREZ BRINGS TO THE FORE A DEBATE ABOUT THE SOCIAL USES OF THE DATA INFRASTRUCTURE AND EXAMINES PRECISELY HOW PEOPLE EMPLOY IT, IN COMBINATION WITH OTHER TECHNOLOGIES, TO COLLABORATE AND ACT FOR SOCIAL CHANGE.

**APPLIED COMPUTER SCIENCES IN ENGINEERING** JUAN CARLOS FIGUEROA-GARCÍA 2018-09-12 THIS TWO-VOLUME SET (CCIS

915 AND CCIS 916) CONSTITUTES THE REFEREED PROCEEDINGS OF THE 5TH WORKSHOP ON ENGINEERING APPLICATIONS, WEA 2018, HELD IN MEDELLÍN, COLOMBIA, IN OCTOBER 2018. THE 50 REVISED FULL PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FROM 126 SUBMISSIONS. THE PAPERS ARE ORGANIZED IN TOPICAL SECTIONS SUCH AS COMPUTER SCIENCE; COMPUTATIONAL INTELLIGENCE; SIMULATION SYSTEMS; SOFTWARE ENGINEERING; POWER AND ENERGY APPLICATIONS.

**PHARMACEUTICAL CARE IN DIGITAL REVOLUTION** CLAUDIA RIJCKEN 2019-03-15 PHARMACEUTICAL CARE IN DIGITAL REVOLUTION DEMONSTRATES HOW BLENDING HUMAN AND DIGITAL PHARMACEUTICAL CARE CAN ESTABLISH OPTIMAL APOTHECARY INTELLIGENCE (AI). ORGANIZED INTO FOUR PARTS, IT EXAMINES DIGITAL HEALTH ADVANCES THAT WILL SYNERGIZE THE PHARMACEUTICAL CARE PROCESS AND PREPARES STAKEHOLDERS FOR A DYNAMIC FUTURE, FUELED WITH INNOVATION. BEGINNING WITH THE GLOBAL PICTURE ON HEALTH CARE SYSTEMS, PATIENTS' EXPECTATIONS, AND CURRENT PHARMACEUTICAL CARE PRACTICES, THE BOOK COVERS DETAILS OF RELEVANT DIGITAL TECHNOLOGIES AS WELL AS COMPLIANCE, ETHICAL, EDUCATIONAL, AND CULTURAL ASPECTS TO TAKE SUCCESSFUL STEPS TOWARDS DIGITAL PHARMACEUTICAL CARE. THE TEXT INCLUDES LINKS TO LECTURES AND TECHNOLOGY FACTS, TUTORIALS ON HOW TO IMPLEMENT ADVANCES IN YOUR OWN WORKING ENVIRONMENT, AND EXAMPLES OF STAKEHOLDERS WHO ARE SUCCESSFUL IN BUILDING SYNERGY BETWEEN DIGITAL AND PHARMA. PHARMACEUTICAL CARE IN DIGITAL REVOLUTION IS A PRACTICAL RESOURCE TO EQUIP PHARMACEUTICAL CARE STAKEHOLDERS, SUCH AS PHARMACISTS, PHYSICIANS, PHARMACY TECHNICIANS, AND STUDENTS AS WELL AS THOSE IN SURROUNDING ECOSYSTEMS LIKE PAYERS OR REGULATORS. IT IS A CRUCIAL REFERENCE TO UNDERSTAND HOW TECHNOLOGICAL INNOVATION IS CHANGING THE PARADIGM IN WHICH WE PROVIDE CURRENT AND FUTURE PHARMACEUTICAL CARE AND HOW TO KEEP IT ACCESSIBLE, AFFORDABLE, AND SUSTAINABLE. LEARN ABOUT ADVANCES IN DIGITAL HEALTH TECHNOLOGY AND APPLY THEM AS A CHANGE LEADER TO CREATE CIRCULAR PHARMACEUTICAL CARE PROVIDES INSIGHTS ON FUTURE PHARMACEUTICAL CARE AND IMPLEMENT ESSENTIAL CONDITIONS TO CREATE THE BEST OUTLOOK FOR PATIENTS ACCESS LINKS, QR CODES, AND EXPLANATORY ANIMATIONS AS EDUCATIONAL MATERIAL TO THE BOOK

**COMPUTER SIMULATIONS IN SCIENCE AND ENGINEERING** JUAN MANUEL DURÁN 2018-09-20 THIS BOOK ADDRESSES KEY CONCEPTUAL ISSUES RELATING TO THE MODERN SCIENTIFIC AND ENGINEERING USE OF COMPUTER SIMULATIONS. IT ANALYSES A BROAD SET OF QUESTIONS, FROM THE NATURE OF COMPUTER SIMULATIONS TO THEIR EPISTEMOLOGICAL POWER, INCLUDING THE MANY SCIENTIFIC, SOCIAL AND ETHICS IMPLICATIONS OF USING COMPUTER SIMULATIONS. THE BOOK IS WRITTEN IN AN EASILY ACCESSIBLE NARRATIVE, ONE THAT WEAVES TOGETHER PHILOSOPHICAL QUESTIONS AND SCIENTIFIC TECHNICALITIES. IT WILL THUS APPEAL EQUALLY TO ALL ACADEMIC SCIENTISTS, ENGINEERS, AND RESEARCHERS IN INDUSTRY INTERESTED IN QUESTIONS (AND CONCEIVABLE ANSWERS) RELATED TO THE GENERAL PRACTICE OF COMPUTER SIMULATIONS.

**ENABLERS FOR SMART CITIES** AMAL EL FALLAH SEGHRUCHNI 2016-07-14 SMART CITIES ARE A NEW VISION FOR URBAN DEVELOPMENT. THEY INTEGRATE INFORMATION AND COMMUNICATION TECHNOLOGY INFRASTRUCTURES – IN THE DOMAINS OF ARTIFICIAL INTELLIGENCE, DISTRIBUTED AND CLOUD COMPUTING, AND SENSOR NETWORKS – INTO A CITY, TO FACILITATE QUALITY OF LIFE FOR ITS CITIZENS AND SUSTAINABLE GROWTH. THIS BOOK EXPLORES VARIOUS CONCEPTS FOR THE DEVELOPMENT OF THESE NEW TECHNOLOGIES (INCLUDING AGENT-ORIENTED PROGRAMMING, BROADBAND INFRASTRUCTURES, WIRELESS SENSOR NETWORKS, INTERNET-BASED NETWORKED APPLICATIONS, OPEN DATA AND OPEN PLATFORMS), AND HOW THEY CAN PROVIDE SMART SERVICES AND ENABLERS IN A RANGE OF PUBLIC DOMAINS. THE MOST SIGNIFICANT RESEARCH, BOTH ESTABLISHED AND EMERGING, IS BROUGHT TOGETHER TO ENABLE ACADEMICS AND PRACTITIONERS TO INVESTIGATE THE POSSIBILITIES OF SMART CITIES, AND TO GENERATE THE KNOWLEDGE AND SOLUTIONS REQUIRED TO DEVELOP AND MAINTAIN THEM.

**BIG DATA AND ETHICS** JÉRÉMIE BÉLANGER 2016-07-21 FACED WITH THE EXPONENTIAL DEVELOPMENT OF BIG DATA AND BOTH ITS LEGAL AND ECONOMIC REPERCUSSIONS, WE ARE STILL SLIGHTLY IN THE DARK CONCERNING THE USE OF DIGITAL INFORMATION. IN THE PERPETUAL BALANCE BETWEEN CONFIDENTIALITY AND TRANSPARENCY, THIS DATA WILL LEAD US TO CALL INTO QUESTION HOW WE UNDERSTAND CERTAIN PARADIGMS, SUCH AS THE HIPPOCRATIC OATH IN MEDICINE. AS A CONSEQUENCE, A REFLECTION ON THE STUDY OF THE RISKS ASSOCIATED WITH THE ETHICAL ISSUES SURROUNDING THE DESIGN AND MANIPULATION OF THIS “MASSIVE DATA SEEMS TO BE ESSENTIAL. THIS BOOK PROVIDES A DIRECTION AND ETHICAL VALUE TO THESE SIGNIFICANT VOLUMES OF DATA. IT PROPOSES AN ETHICAL ANALYSIS MODEL AND RECOMMENDATIONS TO BETTER KEEP THIS DATA IN CHECK. THIS EMPIRICAL AND ETHICO-TECHNICAL APPROACH BRINGS TOGETHER THE FIRST ASPECTS OF A MORAL FRAMEWORK DIRECTED TOWARD THOUGHT, CONSCIENCE AND THE RESPONSIBILITY OF CITIZENS CONCERNED BY THE USE OF DATA OF A PERSONAL NATURE. DEFINES BIG DATA APPLICATIONS IN HEALTH PRESENTS THE ETHICAL VALUE OF THE MEDICAL DATASPHERE VIA THE DESCRIPTION OF A MODEL OF AN ETHICAL ANALYSIS OF BIG DATA PROVIDES THE RECOMMENDATIONS AND STEPS NECESSARY FOR SUCCESSFUL MANAGEMENT AND GOVERNANCE OF PERSONAL HEALTH DATA HELPS READERS DETERMINE WHAT CONDITIONS ARE ESSENTIAL FOR THE DEVELOPMENT OF THE STUDY OF BIG DATA

**INFORMATION NEEDS OF COMMUNITIES** STEVEN WALDMAN 2011-09 IN 2009, A BIPARTISAN KNIGHT COMMISSION FOUND THAT

WHILE THE BROADBAND AGE IS ENABLING AN INFO. AND COMMUN. RENAISSANCE, LOCAL COMMUNITIES IN PARTICULAR ARE BEING UNEVENLY SERVED WITH CRITICAL INFO. ABOUT LOCAL ISSUES. SOON AFTER THE KNIGHT COMMISSION DELIVERED ITS FINDINGS, THE FCC INITIATED A WORKING GROUP TO IDENTIFY CROSSCURRENT AND TREND, AND MAKE RECOMMENDATIONS ON HOW THE INFO. NEEDS OF COMMUNITIES CAN BE MET IN A BROADBAND WORLD. THIS REPORT BY THE FCC WORKING GROUP ON THE INFO. NEEDS OF COMMUNITIES ADDRESSES THE RAPIDLY CHANGING MEDIA LANDSCAPE IN A BROADBAND AGE. CONTENTS: MEDIA LANDSCAPE; THE POLICY AND REGULATORY LANDSCAPE; RECOMMENDATIONS. CHARTS AND TABLES. THIS IS A PRINT ON DEMAND REPORT.

**THE DATAFIED SOCIETY** MIRKO TOBIAS SCHER 2017 THE ABILITY TO GATHER DATA THAT CAN BE CRUNCHED BY MACHINES IS VALUABLE FOR STUDYING SOCIETY. THE NEW METHODS NEEDED TO WORK IT REQUIRE NEW SKILLS AND NEW WAYS OF THINKING ABOUT BEST RESEARCH PRACTICES. THIS BOOK REFLECTS ON THE ROLE AND USEFULNESS OF BIG DATA, CHALLENGING OVERLY OPTIMISTIC EXPECTATIONS ABOUT WHAT IT CAN REVEAL, INTRODUCING PRACTICES AND METHODS FOR ITS ANALYSIS AND VISUALIZATION, AND RAISING IMPORTANT POLITICAL AND ETHICAL QUESTIONS REGARDING ITS COLLECTION, HANDLING, AND PRESENTATION.

THE ART OF WAR IN THE NETWORK AGE JOSEPH HENROTIN 2016-09-16 PREVIOUS STUDIES HAVE LOOKED AT THE CONTRIBUTION OF INFORMATION TECHNOLOGY AND NETWORK THEORY TO THE ART OF WARFARE AS UNDERSTOOD IN THE BROADER SENSE. THIS BOOK, HOWEVER, FOCUSES ON AN AREA PARTICULARLY IMPORTANT IN UNDERSTANDING THE SIGNIFICANCE OF THE INFORMATION REVOLUTION; ITS IMPACT ON STRATEGIC THEORY. THE PURPOSE OF THE BOOK IS TO CRITICALLY ANALYZE THE CONTRIBUTIONS AND CHALLENGES THAT THE SPREAD OF INFORMATION TECHNOLOGIES CAN BRING TO CATEGORIES OF CLASSIC STRATEGIC THEORY. IN THE FIRST TWO CHAPTERS, THE AUTHOR ESTABLISHES THE CONTEXT OF THE BOOK, COMING BACK TO THE EPISTEMOLOGY OF REVOLUTION IN MILITARY AFFAIRS AND ITS TERMINOLOGY. THE THIRD CHAPTER EXAMINES THE POLITICAL BASES OF STRATEGIC ACTION AND OPERATIONAL STRATEGY, BEFORE THE NEXT TWO CHAPTERS FOCUS ON HISTORICAL CONSTRUCTION OF THE PROCESS OF GETTING TO KNOW YOUR OPPONENTS AND THE WAY IN WHICH WE CONSIDER INFORMATION COLLECTION. CHAPTER 6 RETURNS TO THE PROCESS OF "INFORMATIONALIZATION" IN THE DOCTRINE OF ARMED FORCES, ESPECIALLY IN WESTERN COUNTRIES, AND METHODS OF CONDUCTING NETWORK-CENTRIC WARFARE. THE FINAL CHAPTER LOOKS AT THE ATTEMPTS OF WESTERN COUNTRIES TO ADAPT TO THE EMERGENCE OF TECHNO-GUERRILLAS AND NEW FORMS OF HYBRID WARFARE, AND THE RESULTING SOCIO-STRATEGIC OUTCOMES.

*THE DRUG DEVELOPMENT PARADIGM IN ONCOLOGY* NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE 2018-03-12 ADVANCES IN CANCER RESEARCH HAVE LED TO AN IMPROVED UNDERSTANDING OF THE MOLECULAR MECHANISMS UNDERPINNING THE DEVELOPMENT OF CANCER AND HOW THE IMMUNE SYSTEM RESPONDS TO CANCER. THIS INFLUX OF RESEARCH HAS LED TO AN INCREASING NUMBER AND VARIETY OF THERAPIES IN THE DRUG DEVELOPMENT PIPELINE, INCLUDING TARGETED THERAPIES AND ASSOCIATED BIOMARKER TESTS THAT CAN SELECT WHICH PATIENTS ARE MOST LIKELY TO RESPOND, AND IMMUNOTHERAPIES THAT HARNESS THE BODY'S IMMUNE SYSTEM TO DESTROY CANCER CELLS. COMPARED WITH STANDARD CHEMOTHERAPIES, THESE NEW CANCER THERAPIES MAY DEMONSTRATE EVIDENCE OF BENEFIT AND CLEARER DISTINCTIONS BETWEEN EFFICACY AND TOXICITY AT AN EARLIER STAGE OF DEVELOPMENT. HOWEVER, THERE IS A CONCERN THAT THE TRADITIONAL PROCESSES FOR CANCER DRUG DEVELOPMENT, EVALUATION, AND REGULATORY APPROVAL COULD IMPEDE OR DELAY THE USE OF THESE PROMISING CANCER TREATMENTS IN CLINICAL PRACTICE. THIS HAS LED TO A NUMBER OF EFFORTS BY PATIENT ADVOCATES, THE PHARMACEUTICAL INDUSTRY, AND THE FOOD AND DRUG ADMINISTRATION (FDA) TO ACCELERATE THE REVIEW OF PROMISING NEW CANCER THERAPIES, ESPECIALLY FOR CANCERS THAT CURRENTLY LACK EFFECTIVE TREATMENTS. HOWEVER, GENERATING THE NECESSARY DATA TO CONFIRM SAFETY AND EFFICACY DURING EXPEDITED DRUG DEVELOPMENT PROGRAMS CAN PRESENT A UNIQUE SET OF CHALLENGES AND OPPORTUNITIES. TO EXPLORE THIS NEW LANDSCAPE IN CANCER DRUG DEVELOPMENT, THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE DEVELOPED A WORKSHOP HELD IN DECEMBER 2016. THIS WORKSHOP CONVENED CANCER RESEARCHERS, PATIENT ADVOCATES, AND REPRESENTATIVES FROM INDUSTRY, ACADEMIA, AND GOVERNMENT TO DISCUSS CHALLENGES WITH TRADITIONAL APPROACHES TO DRUG DEVELOPMENT, OPPORTUNITIES TO IMPROVE THE EFFICIENCY OF DRUG DEVELOPMENT, AND STRATEGIES TO ENHANCE THE INFORMATION AVAILABLE ABOUT A CANCER THERAPY THROUGHOUT ITS LIFE CYCLE IN ORDER TO IMPROVE ITS USE IN CLINICAL PRACTICE. THIS PUBLICATION SUMMARIZES THE PRESENTATIONS AND DISCUSSIONS FROM THE WORKSHOP.

**ACCESS TO NON-SUMMARY CLINICAL TRIAL DATA FOR RESEARCH PURPOSES UNDER EU LAW** DARIA KIM 2021-11-20 THIS BOOK DRAWS A UNIQUE PERSPECTIVE ON THE REGULATION OF ACCESS TO CLINICAL TRIAL DATA AS A CASE ON RESEARCH AND KNOWLEDGE EXTERNALITIES. NOTWITHSTANDING NUMEROUS POTENTIAL BENEFITS FOR MEDICAL RESEARCH AND PUBLIC HEALTH, MANY JURISDICTIONS HAVE STRUGGLED TO ENSURE ACCESS TO CLINICAL TRIAL DATA, EVEN AT THE LEVEL OF THE TRIAL RESULTS. PRO-ACCESS POLICY INITIATIVES HAVE BEEN STRONGLY OPPOSED BY RESEARCH-BASED DRUG COMPANIES ARGUING THAT MANDATORY DATA DISCLOSURE IMPEDES THEIR INNOVATION INCENTIVES. CONVENTIONALLY, ACCESS TO TEST DATA HAS BEEN APPROACHED FROM

THE PERSPECTIVE OF TRANSPARENCY AND RESEARCH ETHICS. THE BOOK OFFERS A COMPLEMENTARY VIEW AND CONSIDERS ACCESS TO INDIVIDUAL PATIENT-LEVEL TRIAL DATA FOR EXPLORATORY ANALYSIS AS A MATTER OF RESEARCH AND INNOVATION POLICY. SUCH APPROACH APPEARS TO BE ESPECIALLY RELEVANT IN THE DATA-DRIVEN ECONOMY WHERE DIGITAL DATA CONSTITUTES A VALUABLE ECONOMIC RESOURCE. THE STUDY SEEKS TO DEFINE HOW THE RULES OF ACCESS TO CLINICAL TRIAL DATA SHOULD BE DESIGNED TO RECONCILE THE POLICY OBJECTIVES OF LEVERAGING THE RESEARCH POTENTIAL OF DATA THROUGH SECONDARY ANALYSIS, ON THE ONE HAND, AND PROTECTING ECONOMIC INCENTIVES OF RESEARCH-BASED DRUG COMPANIES, ON THE OTHER HAND. OVERALL, IT IS ARGUED THAT THE MAINSTREAM INNOVATION-BASED JUSTIFICATION FOR EXCLUSIVE CONTROL OVER THE OUTCOMES OF RESEARCH AND DEVELOPMENT CAN HARDLY RATIONALISE TRIAL SPONSORS' CONTROL OVER PRIMARY DATA FROM TRIALS. INSTEAD, ACCESS TO SUCH DATA AND ITS ROBUST ANALYSIS SHOULD BE PRIORITISED.

ARTIFICIAL INTELLIGENCE IN MEDICAL IMAGING ERIK R. RANSCHAERT 2019-01-29 THIS BOOK PROVIDES A THOROUGH OVERVIEW OF THE ONGOING EVOLUTION IN THE APPLICATION OF ARTIFICIAL INTELLIGENCE (AI) WITHIN HEALTHCARE AND RADIOLOGY, ENABLING READERS TO GAIN A DEEPER INSIGHT INTO THE TECHNOLOGICAL BACKGROUND OF AI AND THE IMPACTS OF NEW AND EMERGING TECHNOLOGIES ON MEDICAL IMAGING. AFTER AN INTRODUCTION ON GAME CHANGERS IN RADIOLOGY, SUCH AS DEEP LEARNING TECHNOLOGY, THE TECHNOLOGICAL EVOLUTION OF AI IN COMPUTING SCIENCE AND MEDICAL IMAGE COMPUTING IS DESCRIBED, WITH EXPLANATION OF BASIC PRINCIPLES AND THE TYPES AND SUBTYPES OF AI. SUBSEQUENT SECTIONS ADDRESS THE USE OF IMAGING BIOMARKERS, THE DEVELOPMENT AND VALIDATION OF AI APPLICATIONS, AND VARIOUS ASPECTS AND ISSUES RELATING TO THE GROWING ROLE OF BIG DATA IN RADIOLOGY. DIVERSE REAL-LIFE CLINICAL APPLICATIONS OF AI ARE THEN OUTLINED FOR DIFFERENT BODY PARTS, DEMONSTRATING THEIR ABILITY TO ADD VALUE TO DAILY RADIOLOGY PRACTICES. THE CONCLUDING SECTION FOCUSES ON THE IMPACT OF AI ON RADIOLOGY AND THE IMPLICATIONS FOR RADIOLOGISTS, FOR EXAMPLE WITH RESPECT TO TRAINING. WRITTEN BY RADIOLOGISTS AND IT PROFESSIONALS, THE BOOK WILL BE OF HIGH VALUE FOR RADIOLOGISTS, MEDICAL/CLINICAL PHYSICISTS, IT SPECIALISTS, AND IMAGING INFORMATICS PROFESSIONALS.

*APPLYING BIG DATA TO ADDRESS THE SOCIAL DETERMINANTS OF HEALTH IN ONCOLOGY* NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE 2020-09-14 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HELD THE WORKSHOP APPLYING BIG DATA TO ADDRESS THE SOCIAL DETERMINANTS OF HEALTH IN ONCOLOGY ON OCTOBER 28<sup>th</sup> €"29, 2019, IN WASHINGTON, DC. THIS WORKSHOP EXAMINED SOCIAL DETERMINANTS OF HEALTH (SDOH) IN THE CONTEXT OF CANCER, AND CONSIDERED OPPORTUNITIES TO EFFECTIVELY LEVERAGE BIG DATA TO IMPROVE HEALTH EQUITY AND REDUCE DISPARITIES. THE WORKSHOP FEATURED PRESENTATIONS AND DISCUSSION BY EXPERTS IN TECHNOLOGY, ONCOLOGY, AND SDOH, AS WELL AS REPRESENTATIVES FROM GOVERNMENT, INDUSTRY, ACADEMIA, AND HEALTH CARE SYSTEMS. THIS PUBLICATION SUMMARIZES THE PRESENTATIONS AND DISCUSSIONS FROM THE WORKSHOP.

**NEW TECHNOLOGY, BIG DATA AND THE LAW** MARCELO CORRALES 2017-09-04 THIS EDITED COLLECTION BRINGS TOGETHER A SERIES OF INTERDISCIPLINARY CONTRIBUTIONS IN THE FIELD OF INFORMATION TECHNOLOGY LAW. THE TOPICS ADDRESSED IN THIS BOOK COVER A WIDE RANGE OF THEORETICAL AND PRACTICAL LEGAL ISSUES THAT HAVE BEEN CREATED BY CUTTING-EDGE INTERNET TECHNOLOGIES, PRIMARILY BIG DATA, THE INTERNET OF THINGS, AND CLOUD COMPUTING. CONSIDERATION IS ALSO GIVEN TO MORE RECENT TECHNOLOGICAL BREAKTHROUGHS THAT ARE NOW USED TO ASSIST, AND — AT TIMES — SUBSTITUTE FOR, HUMAN WORK, SUCH AS AUTOMATION, ROBOTS, SENSORS, AND ALGORITHMS. THE CHAPTERS PRESENTED IN THIS EDITION ADDRESS THESE ISSUES FROM THE PERSPECTIVE OF DIFFERENT LEGAL BACKGROUNDS. THE FIRST PART OF THE BOOK DISCUSSES SOME OF THE SHORTCOMINGS THAT HAVE PROMPTED LEGISLATORS TO CARRY OUT REFORMS WITH REGARD TO PRIVACY, DATA PROTECTION, AND DATA SECURITY. NOTABLY, SOME OF THE COMPLEXITIES AND SALIENT POINTS WITH REGARD TO THE NEW EUROPEAN GENERAL DATA PROTECTION REGULATION (EU GDPR) AND THE NEW AMENDMENTS TO THE JAPAN'S PERSONAL INFORMATION PROTECTION ACT (PIPA) HAVE BEEN SCRUTINIZED. THE SECOND PART LOOKS AT THE VITAL ROLE OF INTERNET INTERMEDIARIES (OR BROKERS) FOR THE PROPER FUNCTIONING OF THE GLOBALIZED ELECTRONIC MARKET AND INNOVATION TECHNOLOGIES IN GENERAL. THE THIRD PART EXAMINES AN ELECTRONIC APPROACH TO EVIDENCE WITH AN EVALUATION OF HOW THESE TECHNOLOGIES AFFECT CIVIL AND CRIMINAL INVESTIGATIONS. THE AUTHORS ALSO EXPLORE ISSUES THAT HAVE EMERGED IN E-COMMERCE, SUCH AS BITCOIN AND ITS BLOCKCHAIN NETWORK EFFECTS. THE BOOK AIMS TO EXPLAIN, SYSTEMIZE AND SOLVE SOME OF THE LINGERING LEGAL QUESTIONS CREATED BY THE DISRUPTIVE TECHNOLOGICAL CHANGE THAT CHARACTERIZES THE EARLY TWENTY-FIRST CENTURY.