The Data Revolution Big Data Open Data Data Infrastructures And Their Consequences

Big DataBig Data RevolutionThe Data RevolutionThe Data RevolutionThe Big Data RevolutionBig Data AnalyticsBig Data – BigData 2023Big Data RevolutionThe Data RevolutionBig DataThe Big Data RevolutionA Roadmap to Industry 4.0: Smart Production, Sharp Business and Sustainable DevelopmentDigital Enlightenment Yearbook 2014The Big Data RevolutionHandbook of Research on Advanced Research Methodologies for a Digital SocietyThe Sentient Webe-HRMResearch Handbook on Intellectual Property LicensingLaw, Norms and Freedoms in Cyberspace / Droit, normes et libert⍰ s dans le cybermondeHandbook on Measuring Governance Viktor Mayer-Sch⍰ nberger Rob Thomas Rob Kitchin Rob Kitchin Jason Kolb Dr. N. Bharathi, SVNN Mahesh Duriseati, Dr. Divvela Srinivasa Rao, J.Rohini Shunli Zhang Rob Thomas Barrett Williams Bill Schmarzo Thompson Carter Anand Nayyar K. O'Hara Barry Libert Punziano, Gabriella Oliver Cook Mohan Thite Jacques de Werra C⍰ cile de Terwangne Peter Triantafillou

a exploration of the latest trend in technology and the impact it will have on the economy science and society at large

exploit the power and potential of big data to revolutionize business outcomes big

DATA REVOLUTION IS A GUIDE TO IMPROVING PERFORMANCE MAKING BETTER DECISIONS AND TRANSFORMING BUSINESS THROUGH THE EFFECTIVE USE OF BIG DATA IN THIS COLLABORATIVE WORK BY AN IBM VICE PRESIDENT OF BIG DATA PRODUCTS AND AN OXFORD RESEARCH FELLOW THIS BOOK PRESENTS INSIDE STORIES THAT DEMONSTRATE THE POWER AND POTENTIAL OF BIG DATA WITHIN THE BUSINESS REALM READERS ARE GUIDED THROUGH TRIED AND TRUE METHODOLOGIES FOR GETTING MORE OUT OF DATA AND USING IT TO THE UTMOST ADVANTAGE THIS BOOK DESCRIBES THE MAJOR TRENDS EMERGING IN THE FIELD THE PITFALLS AND TRIUMPHS BEING EXPERIENCED AND THE MANY CONSIDERATIONS SURROUNDING BIG DATA ALL WHILE GUIDING READERS TOWARD BETTER DECISION MAKING FROM THE PERSPECTIVE OF A DATA SCIENTIST COMPANIES ARE GENERATING DATA FASTER THAN EVER BEFORE AND MANAGING THAT DATA HAS BECOME A MAJOR CHALLENGE WITH THE RIGHT STRATEGY BIG DATA CAN BE A POWERFUL TOOL FOR CREATING EFFECTIVE BUSINESS SOLUTIONS BUT DEEP UNDERSTANDING IS KEY WHEN APPLYING IT TO INDIVIDUAL BUSINESS NEEDS BIG DATA REVOLUTION PROVIDES THE INSIGHT EXECUTIVES NEED TO INCORPORATE BIG DATA INTO A BETTER BUSINESS STRATEGY IMPROVING OUTCOMES WITH INNOVATION AND EFFICIENT USE OF TECHNOLOGY EXAMINE THE MAJOR EMERGING PATTERNS IN BIG DATA CONSIDER THE DEBATE SURROUNDING THE ETHICAL USE OF DATA RECOGNIZE PATTERNS AND IMPROVE PERSONAL AND ORGANIZATIONAL PERFORMANCE MAKE MORE INFORMED DECISIONS WITH QUANTIFIABLE RESULTS IN AN INFORMATION SOCIETY IT IS BECOMING INCREASINGLY IMPORTANT TO MAKE SENSE OF DATA IN AN ECONOMICALLY VIABLE WAY IT CAN DRIVE NEW REVENUE STREAMS AND GIVE COMPANIES A COMPETITIVE ADVANTAGE PROVIDING A WAY FORWARD FOR BUSINESSES NAVIGATING AN INCREASINGLY COMPLEX MARKETPLACE BIG DATA REVOLUTION PROVIDES EXPERT INSIGHT ON THE TOOL THAT CAN REVOLUTIONIZE INDUSTRIES

CAREFULLY DISTINGUISHING BETWEEN BIG DATA AND OPEN DATA AND EXPLORING VARIOUS DATA INFRASTRUCTURES KITCHIN VIVIDLY ILLUSTRATES HOW THE DATA LANDSCAPE IS RAPIDLY CHANGING AND CALLS FOR A REVOLUTION IN HOW WE THINK ABOUT DATA EVELYN RUPPERT GOLDSMITHS UNIVERSITY OF LONDON DECONSTRUCTS THE HYPE AROUND THE DATA REVOLUTION TO CAREFULLY GUIDE US THROUGH THE HISTORIES AND THE FUTURES OF BIG DATA THE BOOK SKILFULLY ENGAGES WITH DEBATES FROM ACROSS THE HUMANITIES SOCIAL SCIENCES AND SCIENCES IN ORDER TO PRODUCE A CRITICAL ACCOUNT OF HOW DATA ARE ENMESHED INTO ENORMOUS SOCIAL ECONOMIC AND POLITICAL CHANGES THAT ARE TAKING PLACE MARK GRAHAM UNIVERSITY OF OXFORD TRADITIONALLY DATA HAS BEEN A SCARCE COMMODITY WHICH GIVEN ITS VALUE HAS BEEN EITHER JEALOUSLY GUARDED OR EXPENSIVELY TRADED IN RECENT YEARS TECHNOLOGICAL DEVELOPMENTS AND POLITICAL LOBBYING HAVE TURNED THIS POSITION ON ITS HEAD DATA NOW FLOW AS A DEEP AND WIDE TORRENT ARE LOW IN COST AND SUPPORTED BY ROBUST INFRASTRUCTURES AND ARE INCREASINGLY OPEN AND ACCESSIBLE A DATA REVOLUTION IS UNDERWAY ONE THAT IS ALREADY

RESHAPING HOW KNOWLEDGE IS PRODUCED BUSINESS CONDUCTED AND GOVERNANCE ENACTED AS WELL AS RAISING MANY QUESTIONS CONCERNING SURVEILLANCE PRIVACY SECURITY PROFILING SOCIAL SORTING AND INTELLECTUAL PROPERTY RIGHTS IN CONTRAST TO THE HYPE AND HUBRIS OF MUCH MEDIA AND BUSINESS COVERAGE THE DATA REVOLUTION PROVIDES A SYNOPTIC AND CRITICAL ANALYSIS OF THE EMERGING DATA LANDSCAPE ACCESSIBLE IN STYLE THE BOOK PROVIDES A SYNOPTIC OVERVIEW OF BIG DATA OPEN DATA AND DATA INFRASTRUCTURES AN INTRODUCTION TO THINKING CONCEPTUALLY ABOUT DATA DATA INFRASTRUCTURES DATA ANALYTICS AND DATA MARKETS ACRITICAL DISCUSSION OF THE TECHNICAL SHORTCOMINGS AND THE SOCIAL POLITICAL AND ETHICAL CONSEQUENCES OF THE DATA REVOLUTION AN ANALYSIS OF THE IMPLICATIONS OF THE DATA REVOLUTION TO ACADEMIC BUSINESS AND GOVERNMENT PRACTICES

WIDELY ACKNOWLEDGED AS BEING THE FIRST ACADEMIC TEXT TO PROVIDE A CRITICAL OVERVIEW OF THE BIG DATA REVOLUTION AND THE CLASSIFICATION OF DATA WHICH IT OUTLINED IS NOW WIDELY USED RECOGNISED AS THE TAXONOMY IN SOCIAL SCIENCE THE DATA REVOLUTION A CANONICAL TEXT IN DATA STUDIES AND THE WIDER SOCIAL SCIENCES

WE CREATE MORE DATA IN A DAY THEN WE DID FROM THE DAWN OF MAN THROUGH 2003 AND APPROXIMATELY 90 OF ALL THE WORLD S DATA HAS BEEN CREATED IN THE PAST 2 YEARS WHAT DOES THIS MEAN TO YOU IN THE BIG DATA REVOLUTION WE EXPLORE THIS VERY QUESTION AND REVEAL THE DATA SECRETS YOUR COMPETITORS DON T WANT YOU TO KNOW OUR WORLD IS TRANSFORMING AS THE DATA DELUGE KNOCKS US OUT OF OUR OLD WAYS AND INTO THE DATA DRIVEN REALITY SOME COMPANIES ARE WINNING BY TAKING ADVANTAGES OF THE OPPORTUNITIES IN THIS EVOLVING WORLD WHILE OTHERS ARE FALLING BEHIND PIONEERS LIKE AMAZON TARGET AND GOOGLE ARE BLAZING A TRAIL THAT WE CAN FOLLOW AND IN THE BIG DATA REVOLUTION WE HELP YOU DO JUST THAT BIG DATA PROMISES TO GIVE US A WORLD DRIVEN BY INFORMATION AND SOLID DATA BRINGING FAR GREATER PRODUCTIVITY INCREASED PROFITS AND LOWER COSTS AND IN THE BIG DATA REVOLUTION WE EXPLORE THOSE WINNING STRATEGIES AND TECHNIQUES AND THE TOOLS BEHIND THEM WANT TO LEARN HOW COMPANIES LIKE AMAZON TARGET AND IBM USE DATA TO GAIN COMPETITIVE ADVANTAGES OR HOW OBAMA USED BIG DATA TOOLS TO BETTER UTILIZE HIS RESOURCES THE BIG DATA REVOLUTION WAS WRITTEN FOR THE NON OR ONLY SLIGHTLY TECHNICAL BUSINESS PERSON IN MIND BUT IN A WAY THAT GIVES YOU ENOUGH MEAT BEHIND THE IDEAS SO THAT YOU HAVE A ROAD MAP THAT TELLS YOU HOW TO GET WHERE YOU WANT TO GO IT USES REAL WORLD EXAMPLES AND CASE STUDIES TO ILLUSTRATES THE CONCEPTS AND EXPLORE THE TECHNOLOGY THAT MAKES THEM HAPPEN THE BIG DATA REVOLUTION IS COMPRISED OF FOUR PARTS PART 1 DATA SCIENCE IN PART 1 WE FIRST INTRODUCE YOU TO THE WORLD OF DATA SCIENCE AND ANALYTICS THESE ARE THE TOOLS COMPANIES AND GOVERNMENTS USE TO REFINE THEIR CRUDE

DATA INTO VALUABLE INSIGHTS IN THIS SECTION WE LL LOOK AT THE MAGIC BEHIND AMAZON S SUCCESS AND SEE HOW DATA IS LEADING TOWARDS A NEAR MINORITY REPORT FUTURE PART 2 BIG DATA DATA IS GROWING AT AN EXCEPTIONAL RATE WE PRODUCE MORE DATA NOW IN A DAY THAN WE DID FROM THE DAWN OF MAN TILL 2003 THIS EXPLOSION OF DATA CREATES MANY UNIQUE STRUGGLES AS WELL AS OPPORTUNITIES IN THIS SECTION WE LL LOOK AT HOW OBAMA INVESTED IN BIG DATA DURING HIS PRESIDENTIAL CAMPAIGN AND EXPLORE HOW STARTUPS ARE REVEALING DATA THAT SAVES THEIR CLIENTS SUBSTANTIAL CAPITAL PART 3 TOOLS OF THE TRADE DATA SCIENTISTS CANNOT JUST LOOK AT BIG DATA AND GET VALUE FROM IT IT DOESN T MATTER HOW GOOD THEY ARE THE DATA IS JUST TOO BIG SO COMPANIES LIKE IBM AND MICROSOFT BUILD TOOLS THAT HELP PEOPLE MAKE SENSE OF DATA AND HOPEFULLY DISCOVER NEW USEFUL INSIGHTS FROM IT THE TWO PRIMARY CATEGORIES OF TOOLS YOU NEED TO BE AWARE OF ARE BUSINESS INTELLIGENCE AND DATA DISCOVERY IN THIS SECTION WE EXPLORE THESE BROAD TERMS AND SHOW HOW COMPANIES ARE DESIGNING MORE SPECIALIZED TOOLS FOR SPECIFIC PURPOSES PART 4 GAZING INTO THE FUTURE IN ORDER TO POSITION YOURSELF WELL FOR WHAT IS TO COME YOU NEED TO KNOW WHERE WE ARE NOW AND ALMOST MORE IMPORTANTLY WHERE WE ARE GOING TO BE IN THE NEAR FUTURE IN THIS SECTION WE EXPLORE THE TRENDS THAT ARE GOING TO MATTER AS WE MOVE FORWARD IN THIS EMERGING TECHNOLOGY INDUSTRY COMPUTERIZED DATA ANALYTICS IS TRULY STILL IN ITS EARLY STAGES OF DEVELOPMENT AND THINGS ARE GOING TO CHANGE AS NEW INNOVATIONS COME TO THE FOREFRONT IF WE ARE SERIOUS ABOUT GAINING THE DATA ADVANTAGE WE NEED TO STAY AHEAD OF THIS CURVE THE BIG DATA REVOLUTION IS YOUR TOOL TO UNDERSTANDING THIS COMPLEX NEW REALITY OF YOUR WORLD GET IT TODAY AND DON T MISS OUT ON THE DATA DRIVEN FUTURE THE WORLD IS CHANGING ARE YOU READY

BIG DATA ANALYTICS IS THE PROCESS OF EXAMINING LARGE COMPLEX AND RAPIDLY GROWING DATASETS CALLED BIG DATA TO UNCOVER HIDDEN PATTERNS TRENDS CORRELATIONS AND USEFUL INSIGHTS THESE DATASETS ARE TOO LARGE OR FAST CHANGING TO BE PROCESSED USING TRADITIONAL DATA ANALYSIS TOOLS BIG DATA ANALYTICS USES ADVANCED TECHNIQUES SUCH AS MACHINE LEARNING DATA MINING STATISTICAL ANALYSIS AND PREDICTIVE MODELING TO EXTRACT MEANINGFUL INFORMATION THAT SUPPORTS DECISION MAKING

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE BIGDATA 2023 HELD AS PART OF THE SERVICES CONFERENCE FEDERATION SCF 2023 HONOLULU HI USA DURING SEPTEMBER 23 26 2023 THE 14 FULL PAPERS PRESENTED TOGETHER WITH 2 SHORT PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 27 SUBMISSIONS THE CONFERENCE FOCUSES ON RESEARCH TRACK AND APPLICATION TRACK

EXPLOIT THE POWER AND POTENTIAL OF BIG DATA TO REVOLUTIONIZE BUSINESS OUTCOMES BIG

DATA REVOLUTION IS A GUIDE TO IMPROVING PERFORMANCE MAKING BETTER DECISIONS AND TRANSFORMING BUSINESS THROUGH THE EFFECTIVE USE OF BIG DATA IN THIS COLLABORATIVE WORK BY AN IBM VICE PRESIDENT OF BIG DATA PRODUCTS AND AN OXFORD RESEARCH FELLOW THIS BOOK PRESENTS INSIDE STORIES THAT DEMONSTRATE THE POWER AND POTENTIAL OF BIG DATA WITHIN THE BUSINESS REALM READERS ARE GUIDED THROUGH TRIED AND TRUE METHODOLOGIES FOR GETTING MORE OUT OF DATA AND USING IT TO THE UTMOST ADVANTAGE THIS BOOK DESCRIBES THE MAJOR TRENDS EMERGING IN THE FIELD THE PITFALLS AND TRIUMPHS BEING EXPERIENCED AND THE MANY CONSIDERATIONS SURROUNDING BIG DATA ALL WHILE GUIDING READERS TOWARD BETTER DECISION MAKING FROM THE PERSPECTIVE OF A DATA SCIENTIST COMPANIES ARE GENERATING DATA FASTER THAN EVER BEFORE AND MANAGING THAT DATA HAS BECOME A MAJOR CHALLENGE WITH THE RIGHT STRATEGY BIG DATA CAN BE A POWERFUL TOOL FOR CREATING EFFECTIVE BUSINESS SOLUTIONS BUT DEEP UNDERSTANDING IS KEY WHEN APPLYING IT TO INDIVIDUAL BUSINESS NEEDS BIG DATA REVOLUTION PROVIDES THE INSIGHT EXECUTIVES NEED TO INCORPORATE BIG DATA INTO A BETTER BUSINESS STRATEGY IMPROVING OUTCOMES WITH INNOVATION AND EFFICIENT USE OF TECHNOLOGY EXAMINE THE MAJOR EMERGING PATTERNS IN BIG DATA CONSIDER THE DEBATE SURROUNDING THE ETHICAL USE OF DATA RECOGNIZE PATTERNS AND IMPROVE PERSONAL AND ORGANIZATIONAL PERFORMANCE MAKE MORE INFORMED DECISIONS WITH QUANTIFIABLE RESULTS IN AN INFORMATION SOCIETY IT IS BECOMING INCREASINGLY IMPORTANT TO MAKE SENSE OF DATA IN AN ECONOMICALLY VIABLE WAY IT CAN DRIVE NEW REVENUE STREAMS AND GIVE COMPANIES A COMPETITIVE ADVANTAGE PROVIDING A WAY FORWARD FOR BUSINESSES NAVIGATING AN INCREASINGLY COMPLEX MARKETPLACE BIG DATA REVOLUTION PROVIDES EXPERT INSIGHT ON THE TOOL THAT CAN REVOLUTIONIZE INDUSTRIES

UNLOCK THE POTENTIAL OF DATA WITH THE DATA REVOLUTION YOUR COMPREHENSIVE GUIDE TO UNDERSTANDING AND LEVERAGING THE POWER OF BIG DATA ANALYTICS THIS CAPTIVATING EBOOK DELVES DEEP INTO THE TRANSFORMATIVE CAPABILITIES OF DATA ACROSS DIVERSE INDUSTRIES OFFERING YOU A ROADMAP TO NAVIGATE AND HARNESS THE IMMENSE OPPORTUNITIES PRESENTED BY TODAY S DATA DRIVEN WORLD BEGIN YOUR JOURNEY BY EXPLORING THE ORIGINS OF BIG DATA TRACING ITS EVOLUTION FROM TRADITIONAL ANALYTICS TO THE CUTTING EDGE TECHNIQUES THAT DEFINE THE MODERN ERA DISCOVER THE ESSENTIAL TECHNOLOGIES THAT FORM THE BACKBONE OF BIG DATA SYSTEMS SUCH AS CLOUD COMPUTING ADVANCED DATABASES AND INNOVATIVE FRAMEWORKS THAT STREAMLINE ANALYTICAL PROCESSES DIVE INTO THE WORLD OF ADVANCED ANALYTICS WHERE MACHINE LEARNING AND AI ARE NOT JUST BUZZWORDS BUT FUNDAMENTAL TOOLS THAT SHAPE THE FUTURE OF DATA ANALYSIS WITNESS THE REVOLUTIONARY IMPACT OF BIG DATA IN HEALTHCARE FINANCE RETAIL MANUFACTURING AND BEYOND TRANSFORMING INDUSTRIES THROUGH PREDICTIVE ANALYTICS PERSONALIZED SERVICES AND ENHANCED EFFICIENCIES THE DATA REVOLUTION ALSO

ADDRESSES THE CRITICAL CONSIDERATIONS OF PRIVACY SECURITY AND ETHICS ENSURING YOU ADOPT RESPONSIBLE DATA PRACTICES AS YOU IMPLEMENT SOPHISTICATED STRATEGIES IN YOUR ORGANIZATION LEARN FROM REAL WORLD CASE STUDIES THAT HIGHLIGHT BOTH SUCCESSES AND PITFALLS PROVIDING INVALUABLE INSIGHTS FROM LEADING DATA DRIVEN COMPANIES LOOK AHEAD TO THE FUTURE LANDSCAPE OF BIG DATA ANALYTICS DISCOVERING EMERGING TECHNOLOGIES AND SOLUTIONS FOR BRIDGING THE TALENT GAP EQUIP YOURSELF WITH THE SKILLS NECESSARY FOR A DATA DRIVEN FUTURE FOSTERING A CULTURE OF INNOVATION AND INTERDISCIPLINARY COLLABORATION WITHIN YOUR ORGANIZATION WHETHER YOU RE A SEASONED DATA PROFESSIONAL OR A NEWCOMER EAGER TO UNLOCK THE POWER OF DATA THE DATA REVOLUTION EMPOWERS YOU TO DEVELOP AND EXECUTE EFFECTIVE DATA STRATEGIES MEASURE THEIR IMPACT AND SET BOLD VISIONS FOR A DATA ENRICHED TOMORROW EMBRACE THE REVOLUTION AND TRANSFORM POTENTIAL INTO ACTIONABLE INSIGHTS

LEVERAGE BIG DATA TO ADD VALUE TO YOUR BUSINESS SOCIAL MEDIA ANALYTICS WEB TRACKING AND OTHER TECHNOLOGIES HELP COMPANIES ACQUIRE AND HANDLE MASSIVE AMOUNTS OF DATA TO BETTER UNDERSTAND THEIR CUSTOMERS PRODUCTS COMPETITION AND MARKETS ARMED WITH THE INSIGHTS FROM BIG DATA COMPANIES CAN IMPROVE CUSTOMER EXPERIENCE AND PRODUCTS ADD VALUE AND INCREASE RETURN ON INVESTMENT THE TRICKY PART FOR BUSY IT PROFESSIONALS AND EXECUTIVES IS HOW TO GET THIS DONE AND THAT S WHERE THIS PRACTICAL BOOK COMES IN BIG DATA UNDERSTANDING HOW DATA POWERS BIG BUSINESS IS A COMPLETE HOW TO GUIDE TO LEVERAGING BIG DATA TO DRIVE BUSINESS VALUE FULL OF PRACTICAL TECHNIQUES REAL WORLD EXAMPLES AND HANDS ON EXERCISES THIS BOOK EXPLORES THE TECHNOLOGIES INVOLVED AS WELL AS HOW TO FIND AREAS OF THE ORGANIZATION THAT CAN TAKE FULL ADVANTAGE OF BIG DATA SHOWS HOW TO DECOMPOSE CURRENT BUSINESS STRATEGIES IN ORDER TO LINK BIG DATA INITIATIVES TO THE ORGANIZATION S VALUE CREATION PROCESSES EXPLORES DIFFERENT VALUE CREATION PROCESSES AND MODELS EXPLAINS ISSUES SURROUNDING OPERATIONALIZING BIG DATA INCLUDING ORGANIZATIONAL STRUCTURES EDUCATION CHALLENGES AND NEW BIG DATA RELATED ROLES PROVIDES METHODOLOGY WORKSHEETS AND EXERCISES SO READERS CAN APPLY TECHNIQUES INCLUDES REAL WORLD EXAMPLES FROM A VARIETY OF ORGANIZATIONS LEVERAGING BIG DATA BIG DATA UNDERSTANDING HOW DATA POWERS BIG BUSINESS IS WRITTEN BY ONE OF BIG DATA S PREEMINENT EXPERTS WILLIAM SCHMARZO DON T MISS HIS INVALUABLE INSIGHTS AND ADVICE

THE BIG DATA REVOLUTION HARNESS THE POWER OF BIG DATA WITH MODERN TOOLS AND TECHNOLOGIES TRANSFORM THE WAY YOU UNDERSTAND ANALYZE AND LEVERAGE DATA WITH THE BIG DATA REVOLUTION THIS COMPREHENSIVE GUIDE INTRODUCES YOU TO THE CUTTING EDGE TOOLS TECHNOLOGIES AND STRATEGIES THAT DRIVE SUCCESSFUL BIG DATA INITIATIVES IN TODAY S RAPIDLY

EVOLVING DIGITAL WORLD WHETHER YOU RE A BUSINESS PROFESSIONAL DATA SCIENTIST OR TECHNOLOGY ENTHUSIAST THIS BOOK PROVIDES ACTIONABLE INSIGHTS AND PRACTICAL ADVICE FOR HARNESSING THE TRUE POWER OF BIG DATA FROM CAPTURING AND PROCESSING MASSIVE DATASETS TO UNCOVERING HIDDEN PATTERNS AND DRIVING INFORMED DECISIONS THE BIG DATA REVOLUTION IS YOUR ROADMAP TO SUCCESS WHAT YOU LL LEARN THE FUNDAMENTALS OF BIG DATA AND ITS ROLE IN MODERN BUSINESS AND TECHNOLOGY HOW TO WORK WITH TOOLS LIKE HADOOP SPARK AND KAFKA FOR BIG DATA PROCESSING TECHNIQUES FOR MANAGING STRUCTURED UNSTRUCTURED AND SEMI STRUCTURED DATA BUILDING DATA PIPELINES AND REAL TIME ANALYTICS SYSTEMS STRATEGIES FOR INTEGRATING BIG DATA WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING CASE STUDIES SHOWCASING REAL WORLD APPLICATIONS OF BIG DATA IN INDUSTRIES LIKE HEALTHCARE FINANCE AND E COMMERCE EMPOWER YOUR ORGANIZATION TO STAY AHEAD OF THE COMPETITION BY HARNESSING THE TRANSFORMATIVE POTENTIAL OF BIG DATA WHETHER YOU RE OPTIMIZING OPERATIONS ENHANCING CUSTOMER EXPERIENCES OR DRIVING INNOVATION THIS BOOK PROVIDES THE KNOWLEDGE AND SKILLS TO THRIVE IN THE DATA DRIVEN ERA UNLEASH THE POWER OF BIG DATA JOIN THE BIG DATA REVOLUTION TODAY

BUSINESS INNOVATION AND INDUSTRIAL INTELLIGENCE ARE PAVING THE WAY FOR A FUTURE IN WHICH SMART FACTORIES INTELLIGENT MACHINES NETWORKED PROCESSES AND BIG DATA ARE COMBINED TO FOSTER INDUSTRIAL GROWTH THE MATURITY AND GROWTH OF INSTRUMENTATION MONITORING AND AUTOMATION AS KEY TECHNOLOGY DRIVERS SUPPORT INDUSTRY 4 0 AS A VIABLE COMPETENT AND ACTIONABLE BUSINESS MODEL THIS BOOK OFFERS A PRIMER HELPING READERS UNDERSTAND THIS PARADIGM SHIFT FROM INDUSTRY 1 0 TO INDUSTRY 4 0 THE FOCUS IS ON GRASPING THE NECESSARY PRE CONDITIONS DEVELOPMENT TECHNOLOGICAL ASPECTS THAT CONCEPTUALLY DESCRIBE THIS TRANSFORMATION ALONG WITH THE PRACTICES MODELS AND REAL TIME EXPERIENCE NEEDED TO ACHIEVE SUSTAINABLE SMART MANUFACTURING TECHNOLOGIES THE PRIMARY GOAL IS TO ADDRESS SIGNIFICANT QUESTIONS OF WHAT HOW AND WHY IN THIS CONTEXT SUCH AS WHAT IS INDUSTRY 4 0 WHAT IS THE CURRENT STATUS OF ITS IMPLEMENTATION WHAT ARE THE PILLARS OF INDUSTRY 4 0 HOW CAN INDUSTRY 4 0 BE EFFECTIVELY IMPLEMENTED HOW ARE FIRMS EXPLOITING THE INTERNET OF THINGS IOT BIG DATA AND OTHER EMERGING TECHNOLOGIES TO IMPROVE THEIR PRODUCTION AND SERVICES HOW CAN THE IMPLEMENTATION OF INDUSTRY 4 0 BE ACCELERATED HOW IS INDUSTRY 4 0 CHANGING THE WORKPLACE LANDSCAPE WHY IS THIS MELDING OF THE VIRTUAL AND PHYSICAL WORLD NEEDED FOR SMART PRODUCTION ENGINEERING ENVIRONMENTS WHY IS SMART PRODUCTION A GAME CHANGING NEW FORM OF PRODUCT DESIGN AND MANUFACTURING

TRACKING THE EVOLUTION OF DIGITAL TECHNOLOGY IS NO EASY TASK CHANGES HAPPEN SO FAST THAT KEEPING PACE PRESENTS QUITE A CHALLENGE THIS IS NEVERTHELESS THE AIM OF THE DIGITAL

ENLIGHTENMENT YEARBOOK THIS BOOK IS THE THIRD IN THE SERIES WHICH BEGAN IN 2012 UNDER THE AUSPICES OF THE DIGITAL ENLIGHTENMENT FORUM THIS YEAR THE FOCUS IS ON THE RELATIONSHIP OF INDIVIDUALS WITH THEIR NETWORKS AND EXPLORES SOCIAL NETWORKS AND SOCIAL MACHINES SURVEILLANCE AND EMPOWERMENT IN WHAT IS NOW THE WELL ESTABLISHED TRADITION OF THE YEARBOOK DIFFERENT STAKEHOLDERS IN SOCIETY AND VARIOUS DISCIPLINARY COMMUNITIES TECHNOLOGY LAW PHILOSOPHY SOCIOLOGY ECONOMICS POLICYMAKING BRING THEIR VERY DIFFERENT OPINIONS AND PERSPECTIVES TO BEAR ON THIS TOPIC THE BOOK IS DIVIDED INTO FOUR PARTS THE INDIVIDUAL AS DATA MANAGER THE INDIVIDUAL SOCIETY AND THE MARKET BIG DATA AND OPEN DATA AND NEW APPROACHES THESE ARE BOOKENDED BY A PROLOGUE AND AN EPILOGUE WHICH PROVIDE ILLUMINATING PERSPECTIVES ON THE DISCUSSIONS IN BETWEEN THE DIVISION OF THE BOOK IS NOT DEFINITIVE IT SUGGESTS ONE NARRATIVE BUT OTHERS ARE CLEARLY POSSIBLE THE 2014 DIGITAL ENLIGHTENMENT YEARBOOK GATHERS TOGETHER THE SCIENCE SOCIAL SCIENCE LAW AND POLITICS OF THE DIGITAL ENVIRONMENT IN ORDER TO HELP US REFORMULATE AND ADDRESS THE TIMELY AND PRESSING QUESTIONS WHICH THIS NEW ENVIRONMENT RAISES WE ARE ALL OF US AFFECTED BY DIGITAL TECHNOLOGY AND THE SUBJECTS COVERED HERE ARE CONSEQUENTLY OF IMPORTANCE TO US ALL

DOING RESEARCH IS AN EVER CHANGING CHALLENGE FOR SOCIAL SCIENTISTS THIS CHALLENGE IS HARDER THAN EVER TODAY AS CURRENT SOCIETIES ARE CHANGING QUICKLY AND IN MANY SOMETIMES CONFLICTING DIRECTIONS SOCIAL PHENOMENA PERSONAL INTERACTIONS AND FORMAL AND INFORMAL RELATIONSHIPS ARE BECOMING MORE BORDERLESS AND DISCONNECTED FROM THE ANCHORS OF THE OFFLINE REALITY THESE DYNAMICS ARE HEAVILY MARKING OUR TIME AND ARE SUGGESTING EVOLUTIONARY CHALLENGES IN THE WAYS WE KNOW INTERPRET AND ANALYZE THE WORLD INTERNET AND COMPUTER MEDIATED COMMUNICATION CMC IS BEING INCORPORATED INTO EVERY ASPECT OF DAILY LIFE AND SOCIAL LIFE HAS BEEN DEEPLY PENETRATED BY THE INTERNET THIS IS DUE TO RECENT TECHNOLOGICAL DEVELOPMENTS THAT INCREASE THE SCOPE AND RANGE OF ONLINE SOCIAL SPACES AND THE FORMS AND TIME OF PARTICIPATION SUCH AS 2 0 WHICH WIDENED THE OPPORTUNITIES FOR USER GENERATED CONTENT THE EMERGENCE OF AN INTERNET OF THINGS AND OF UBIQUITOUS MOBILE DEVICES THAT MAKE IT POSSIBLE TO ALWAYS BE CONNECTED THIS IMPLIES AN ADJUSTMENT TO EPISTEMOLOGICAL AND METHODOLOGICAL STANCES FOR CONDUCTING SOCIAL RESEARCH AND AN ADAPTION OF TRADITIONAL SOCIAL RESEARCH METHODS TO THE SPECIFICITIES OF ONLINE INTERACTIONS IN THE DIGITAL SOCIETY THE HANDBOOK OF RESEARCH ON ADVANCED RESEARCH METHODOLOGIES FOR A DIGITAL SOCIETY COVERS THE DIFFERENT STRANDS OF METHODS MOST AFFECTED BY THE CHANGE IN A DIGITAL SOCIETY AND DEVELOPS A BROADER THEORETICAL REFLECTION ON THE FUTURE OF SOCIAL RESEARCH IN ITS CHALLENGE TO ALWAYS BE FITTING SUITABLE ADAPTABLE AND PERTINENT TO THE SOCIETY TO BE STUDIED THE CHAPTERS ARE GEARED

TOWARDS UNLOCKING THE FUTURE FRONTIERS AND POTENTIAL FOR SOCIAL RESEARCH IN THE DIGITAL SOCIETY THEY INCLUDE THEORETICAL EPISTEMOLOGICAL AND ONTOLOGICAL REFLECTIONS ABOUT THE DIGITAL RESEARCH METHODS AS WELL AS INNOVATIVE METHODS AND TOOLS TO COLLECT ANALYZE AND INTERPRET DATA THIS BOOK IS IDEAL FOR SOCIAL SCIENTISTS PRACTITIONERS LIBRARIANS RESEARCHERS ACADEMICIANS AND STUDENTS INTERESTED IN SOCIAL RESEARCH METHODOLOGY AND ITS DEVELOPMENTS IN THE DIGITAL SCENARIO

IMAGINE A WORLD WHERE TECHNOLOGY AND HUMANITY INTERTWINE A PLACE WHERE THE INTERNET IS NOT JUST A TOOL BUT A PARTNER IN OUR SHARED EXPERIENCE WELCOME TO THE SENTIENT AI ETHICS AND THE FUTURE OF THE INTERNET AS WE PROPEL FURTHER INTO THE DIGITAL AGE THIS COMPREHENSIVE EXPLORATION DELVES INTO THE HEART OF THE DIGITAL TRANSFORMATION THAT S REDEFINING OUR WORLD IT NAVIGATES THE REALM OF ARTIFICIAL INTELLIGENCE CYBER ETHICS AND THE EMERGENCE OF A SYMBIOTIC RELATIONSHIP BETWEEN HUMAN AND MACHINE AGENCY THE SENTIENT PRESENTS A COMPELLING LOOK INTO HOW WE MIGHT BALANCE FREEDOM AND CONTROL IN AN AGE OF AUTONOMOUS SYSTEMS AND UNCOVERS THE UNINTENDED CONSEQUENCES OF AUTOMATION WHILE TACKLING THE MASSIVE CHALLENGES INHERENT IN REGULATING A WORLD WIDE WEB THAT CONTINUES TO EVOLVE AT AN ASTOUNDING PACE AS WE EXPLORE THE PROFOUND IMPLICATIONS OF A SENTIENT WEB WE MUST BE SURE TO CREATE A DIGITAL WORLD THAT REFLECTS THE BEST OF WHO WE ARE AND THE WORLD WE WISH TO LIVE IN THE SENTIENT AI ETHICS AND THE FUTURE OF THE INTERNET IS MORE THAN JUST A BOOK IT S A THOUGHT PROVOKING JOURNEY AN EXPLORATION AND A CALL TO ACTION DIVE IN AND JOIN THE CONVERSATION ABOUT THE FUTURE OF OUR DIGITAL WORLD THIS IS YOUR INVITATION TO THE FRONTIER OF OUR SHARED DIGITAL FUTURE DON T JUST WITNESS THE TRANSFORMATION BE A PART OF IT

AS WITH OTHER PARTS OF BUSINESS TECHNOLOGY IS HAVING A PROFOUND EFFECT ON THE WORLD OF WORK AND MANAGEMENT OF HUMAN RESOURCES TECHNOLOGY IS A KEY ENABLER FOR FASTER CHEAPER AND BETTER DELIVERY OF HR SERVICES AND IN SOME CASES CAN HAVE A TRANSFORMATIONAL AS WELL AS UNINTENDED NEGATIVE EFFECT DESIGNED FOR THE DIGITAL ERA E HRM IS ONE OF THE FIRST TEXTBOOKS ON THESE DEVELOPMENTS IT INCORPORATES THE MOST CURRENT AND IMPORTANT HR TECHNOLOGY RELATED TOPICS IN FOUR DISTINCT PARTS UNDER ONE UMBRELLA WRITTEN BY LEADING SCHOLARS AND PRACTITIONERS DRAWN FROM ACROSS THE WORLD ALL THE CHAPTERS HAVE A UNIFORM STRUCTURE AND PAY EQUAL ATTENTION TO THEORY AND PRACTICE WITH AN APPLIED FOCUS LEARNING RESOURCES OF THE BOOK INCLUDE CHAPTER WIDE LEARNING OBJECTIVES CASE STUDIES DEBATES ON RELATED BURNING ISSUES AND THE COMPANION WEBSITE INCLUDES LECTURE SLIDES AND A QUESTION BANK

IN THIS THOROUGHLY REVISED AND EXPANDED SECOND EDITION OF AN ACCLAIMED HANDBOOK LEADING

EXPERTS EXPLORE THE MULTIPLE FACETS OF IP LICENSING LAW FROM A GLOBAL AND COMPARATIVE PERSPECTIVE

PROFESSEUR CHERCHEUR DIRECTEUR DE CENTRE DOYEN ET RECTEUR YVES POULLET S EST ILLUSTRÉ DANS TOUTES LES ÉTAPES ET FONCTIONS D UNE CARRIÈRE UNIVERSITAIRE BIEN REMPLIE MARQUANT DES GÉNÉRATIONS D ÉTUDIANTS DE CHERCHEURS DE COLLÈGUES ET DE PAIRS SPÉCIALISTE ÉMINENT ET INCONTOURNABLE DU DROIT DE L INTERNET ET DES TECHNOLOGIES DE L INFORMATION ET DE LA COMMUNICATION IL EN EST AUSSI L UN DES PRÉCURSEURS EN FONDANT DÈS 1979 UN DES PREMIERS CENTRES DE RECHERCHE EUROPÉENS EN LA MATIÈRE PAR CET OUVRAGE COLLÈGUES AMIS ANCIENS DOCTORANTS RENDENT HOMMAGE À L UNE DES PLUS BELLES PLUMES DE LA DISCIPLINE EN LUI OFFRANT LEURS RÉFLEXIONS SUR L INFLUENCE RÉCIPROQUE DU DROIT ET DE LA TECHNOLOGIE LEURS CONTRIBUTIONS DÉMONTRENT L ÉTENDUE DE L EXPERTISE ET DES RÉSEAUX EUROPÉENS ET INTERNATIONAUX D YVES POULLET ELLES S ARTICULENT AUTOUR DE TROIS AXES QUI FURENT AUTANT DE PERSPECTIVES DANS LESQUELLES IL A INSCRIT SA RECHERCHE LE DROIT LES NORMES ET LES LIBERTÉS LA RICHESSE DE CE VOLUME TÉMOIGNE DE SON ATTENTION À L HUMAIN DES AMITIÉS QU IL A NOUÉES MAIS AUSSI DES SILLONS QU IL A TRACÉS EN DROIT DES TECHNOLOGIES DE L INFORMATION ET DE LA COMMUNICATION SILLONS DANS LESQUELS A POUSSÉ UNE FORÊT LUXURIANTE TOUJOURS FERTILE C EST L HÉRITAGE D UN GRAND PENSEUR D UN VÉRITABLE UNIVERSITAIRE YVES POULLET HAS NOT MERELY SERVED BUT EXCELLED IN ALL FUNCTIONS OF THE UNIVERSITY WORLD WHETHER AS PROFESSOR RESEARCHER DIRECTOR OF A RESEARCH CENTRE OR AS DEAN AND RECTOR HE HAS LEFT A LASTING IMPRESSION IN THE MINDS OF GENERATIONS OF STUDENTS RESEARCHERS COLLEAGUES AND PEERS HE IS A PREEMINENT EXPERT ON THE LAW OF INTERNET AND INFORMATION AND COMMUNICATIONS TECHNOLOGIES WHO ALREADY IN 1979 PIONEERED ONE OF THE FIRST EUROPEAN RESEARCH CENTRES IN THE FIELD THIS VOLUME IS A TRIBUTE TO YVES POULLET FROM COLLEAGUES FRIENDS FORMER PHD RESEARCHERS OFFERING THEIR REFLECTIONS ON THE RECIPROCAL INFLUENCE OF LAW AND TECHNOLOGY THESE CONTRIBUTIONS HIGHLIGHT BOTH THE RANGE OF EXPERTISE AND THE EXTENT OF THE EUROPEAN AND INTERNATIONAL NETWORKS HE HAS NOURISHED THEY ADDRESS THE THREE MAIN RESEARCH AXES YVES POULLET HAS DEVELOPED THROUGH THE YEARS LAW NORMS AND FREEDOMS THE AUTHORS OF THIS VOLUME PAY HOMAGE TO A MENTOR A FRIEND BUT ABOVE ALL TO AN EXCEPTIONAL RESEARCHER WHO HAS SOWN COUNTLESS SEEDS IN THE FIELD ENABLING A LUXURIOUS LANDSCAPE TO GROW AND BECOME A SOURCE OF INSPIRATION FOR MANY SCHOLARS THIS IS THE HERITAGE OF A GENUINE THINKER A REAL ACADEMIC

MEASURING GOVERNANCE HAS BECOME AN INCREASINGLY IMPORTANT FEATURE OF MODERN SOCIETIES WITH ORGANIZATIONS AND INSTITUTIONS EXPECTED TO PROVE THEIR WORTH BY QUANTIFYING THEIR ACTIVITIES AND RESULTS THIS UNIQUE HANDBOOK MAPS HISTORICAL DEVELOPMENTS THEORETICAL

CONCEPTIONS AND KEY APPROACHES AND SUMMARIZES WHAT IS KNOWN ABOUT MEASURING GOVERNANCE FROM A VARIETY OF FIELDS OF PRACTICE

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