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COMPUTING INFORMATION TECHNOLOGY - STEVEN R. GORDON 2003-01-01

"FROM THE SENIOR MANAGEMENT TO THE CLERICAL AND SUPPORT GROUP LEVELS, THIS STUDY ADDRESSES THE POSSIBLE PITFALLS AND TRIUMPHS OF IMPLEMENTING INFORMATION TECHNOLOGY (IT) INTO ORGANIZATIONS IN TERMS OF ORGANIZATIONAL STRATEGIES, STRUCTURES, AND COMMUNICATION METHODS. ISSUES OF HUMAN-COMPUTER INTERACTION, ETHICS, PRIVACY, AND SECURITY ARE RAISED TO HELP FACILITATE A SOCIOPRAGMATIC AND CONSTRUCTIVIST UNDERSTANDING OF IT CULTURE."

EVOLUTIONARY DESIGN AND MANUFACTURE - I.C. PARMEE 2000-04-12

THIS COLLECTION OF SELECTED PAPERS FROM THE FOURTH INTERNATIONAL CONFERENCE ON ADAPTIVE COMPUTING IN DESIGN AND MANUFACTURE (ACDM0) REPRESENTS A CROSS-SECTION OF THE STATE-OF-THE ART RELATING TO THE INTEGRATION OF ADVANCED STOCHASTIC SEARCH, EXPLORATION AND OPTIMISATION TECHNIQUES WITH COMPLEX PROBLEM AREAS RELATING TO VARIOUS ASPECTS OF DESIGN AND MANUFACTURING PROCESSES. THE CONFERENCE, HELD IN THE SHERWELL CONFERENCE CENTRE AT THE UNIVERSITY OF PLYMOUTH, DEVON, UK IN APRIL, 2000, IS A WELL-ESTABLISHED BIENNIAL EVENT SUPPORTED BY SEVERAL UK ENGINEERING INSTITUTIONS AND RECOGNISED BY THE INTERNATIONAL SOCIETY FOR GENETIC AND EVOLUTIONARY COMPUTATION AS A MAINSTREAM EVENT. THE CONFERENCE CONTINUES TO ATTRACT AN INTERNATIONAL AUDIENCE OF LEADING RESEARCHERS AND PRACTITIONERS IN THE FIELD. AEROSPACE, MECHANICAL, THERMAL AND STRUCTURAL DESIGN ARE AMONG THE SUBJECTS TREATED. IN TERMS OF MANUFACTURING PROCESSES, CELL FORMATION, FACILITY DESIGN, SYSTEM CONTROL AND ROBOTICS ARE ADDRESSED. IN MOST CASES, RESULTS FROM THEIR APPLICATION TO OR INTEGRATION WITH REAL-WORLD INDUSTRIAL PROBLEMS ARE VERY MUCH IN EVIDENCE AND CONCLUSIONS RELATING TO THE OVERALL UTILITY OF THE VARIOUS TECHNIQUES ACROSS A DIVERSE SPECTRUM OF PROBLEM AREAS ARE AVAILABLE. EVOLUTIONARY COMPUTING RESEARCH AND ITS APPLICATION PROVIDES THE MAINSTAY IN THE GREAT MAJORITY OF PAPERS. IN THE TRADITION OF THE ACDM SERIES, PAPERS UTILISING

NEURAL COMPUTING TECHNOLOGIES AND RELATED COMPUTATIONAL INTELLIGENCE TECHNIQUES WITHIN THE DESIGN/MANUFACTURE ENVIRONMENTS HAVE ALSO BEEN INCLUDED. THE COLLECTION FURTHER ILLUSTRATES THE INCREASING UPTAKE OF THESE TECHNOLOGIES IN TERMS OF ACADEMIC RESEARCH, ACADEMIC AND INDUSTRIAL COLLABORATION AND INDUSTRIAL PRACTICE. IT IS APPARENT THAT APPLICATION STRATEGIES ARE BECOMING INCREASINGLY SOPHISTICATED AS THE POWERFUL DATA PROCESSING CAPABILITIES OF THE TECHNOLOGIES BECOME MORE APPARENT AND THEIR INCREASING POTENTIAL LEADS TO INTEGRATION WITH MORE COMPLEX PROBLEM AREAS SO THE BOOK WILL BE OF PARTICULAR INTEREST TO BOTH DESIGN AND COMPUTER SCIENCE RESEARCH COMMUNITIES IN ADDITION TO THOSE INDUSTRIAL ORGANISATIONS THAT ARE EITHER ALREADY INCLUDING THESE TECHNOLOGIES IN DAY-TO-DAY WORKING PRACTICE OR THAT WISH TO FAMILIARISE THEMSELVES WITH THE POTENTIAL UTILITY OF THEIR APPLICATION FURTHER.

COMPUTERS - ERIC GOTTFRID SWEDIN 2005

THE COMPUTER IS THE GREAT TECHNOLOGICAL AND SCIENTIFIC INNOVATION OF THE LAST HALF OF THE TWENTIETH CENTURY. IT HAS REVOLUTIONIZED HOW WE ORGANIZE INFORMATION, HOW WE COMMUNICATE WITH EACH OTHER, AND EVEN THE WAY THAT WE THINK ABOUT THE HUMAN MIND. COMPUTERS HAVE EASED THE DRUDGERY OF SUCH TASKS AS CALCULATING SUMS AND CLERICAL WORK, MAKING THEM BOTH MORE BEARABLE AND MORE EFFICIENT. THE COMPUTER HAS BECOME UBIQUITOUS IN MANY ASPECTS OF BUSINESS, RECREATION, AND EVERYDAY LIFE, AND THE TREND IS THAT THEY ARE BECOMING BOTH MORE POWERFUL AND EASIER TO USE. **COMPUTERS: THE LIFE STORY OF A TECHNOLOGY** PROVIDES AN ACCESSIBLE OVERVIEW OF THIS EVER CHANGING TECHNOLOGY HISTORY, GIVING STUDENTS AND LAY READERS AN UNDERSTANDING OF THE COMPLETE SCOPE OF ITS HISTORY FROM ANCIENT TIMES TO THE PRESENT DAY. IN ADDITION TO PROVIDING A CONCISE BIOGRAPHY OF HOW THIS TECHNOLOGY DEVELOPED, THIS BOOK PROVIDES INSIGHTS INTO HOW THE COMPUTER HAS CHANGED OUR LIVES: * DEMONSTRATES HOW, JUST AS THE INVENTION OF THE STEAM ENGINE IN THE 1700S STIMULATED SCIENTISTS TO THINK OF THE LAWS OF NATURE IN TERMS OF MACHINES, THE SUCCESS OF THE COMPUTER IN

THE LATE 1900S PROMPTED SCIENTISTS TO THINK OF THE BASIC LAWS OF THE UNIVERSE AS BEING SIMILAR TO THE OPERATION OF A COMPUTER. * PROVIDES A WORLDWIDE EXAMINATION OF COMPUTING, AND HOW SUCH NEEDS AS SECURITY AND DEFENSE DURING THE COLD WAR DROVE THE DEVELOPMENT OF COMPUTING TECHNOLOGY. * SHOWS HOW THE COMPUTER HAS ENTERED ALMOST EVERY ASPECT OF DAILY LIFE IN THE 21ST CENTURY THE VOLUME INCLUDES A GLOSSARY OF TERMS, A TIMELINE OF IMPORTANT EVENTS, AND A SELECTED BIBLIOGRAPHY OF USEFUL RESOURCES FOR FURTHER INFORMATION.

THE ELECTRONIC TEXT - WILLIAM V. COSTANZO 1989

EXPLORING THE INTERNET - CARL MALAMUD 1992

IN THE TRADITION OF CLASSIC TRAVEL LITERATURE, THIS "TECHNICAL TRAVELOGUE" REVEALS THE INCREDIBLE SCOPE AND DIVERSITY OF THE INTERNET--THE MASSIVE WORLDWIDE COMPUTER NETWORK NOW CONNECTING SEVEN MILLION PEOPLE IN 33 COUNTRIES, AND GROWING AT A RATE OF 20 PERCENT PER MONTH. MALAMUD RELATES HIS EXPERIENCES AS A "DIGITAL TOURIST" WHO CIRCLED THE GLOBE THREE TIMES VISITING INTERNET SITES IN OVER 50 CITIES. HIS REPORTS FROM THE FIELD PROVIDE AN ASTONISHING GLIMPSE AT GLOBAL POLITICS BEHIND THE WORLDWIDE ENGINEERING EFFORT THAT HAS BUILT THE INTERNET. 30 PHOTOGRAPHS.

DESIGN SCIENCE - VLADIMIR HUBKA 1996

IT IS THE AIM OF THIS STUDY TO PRESENT A FRAMEWORK FOR THE DESIGN OF TECHNICAL SYSTEMS. THIS CAN BE ACHIEVED THROUGH A GENERAL DESIGN SCIENCE, A KNOWLEDGE SYSTEM IN WHICH PRODUCTS ARE SEEN AS OBJECTS TO BE DEVELOPED WITHIN ENGINEERING DESIGN PROCESSES. THE AUTHORS HAVE DEVELOPED THIS DESIGN SCIENCE FROM A DIVISION OF THE KNOWLEDGE SYSTEM ALONG TWO AXES. ONE DEALS WITH KNOWLEDGE ABOUT TECHNICAL SYSTEMS AND DESIGN PROCESSES WHILE THE OTHER PRESENTS DESCRIPTIVE STATEMENTS. RELATIONSHIPS AMONG THE VARIOUS SECTIONS OF THE KNOWLEDGE SYSTEM ARE MADE CLEAR. WELL-KNOWN INSIGHTS INTO ENGINEERING DESIGN, THE PROCESS, ITS MANAGEMENT AND ITS PRODUCTS ARE PLACED INTO NEW CONTEXTS. PARTICULAR ATTENTION IS GIVEN TO VARIOUS AREAS OF APPLICABILITY. WIDESPREAD USE THROUGHOUT IS MADE OF EASILY ASSIMILATED DIAGRAMS AND MODELS.

ENCYCLOPEDIA OF GENDER AND INFORMATION TECHNOLOGY - TRAUTH, EILEEN M. 2006-06-30

"THIS TWO VOLUME SET INCLUDES 213 ENTRIES WITH OVER 4,700 REFERENCES TO ADDITIONAL WORKS ON GENDER AND INFORMATION TECHNOLOGY"--PROVIDED BY PUBLISHER.

DAMAGE MECHANICS WITH FINITE ELEMENTS - P.I. KATTAN 2001-09-25

THE MAJOR GOAL OF THIS BOOK IS TO PRESENT THE IMPLEMENTATION OF SOME DAMAGE MODELS WITH FINITE ELEMENTS. THE DAMAGE MODELS ARE BASED ON THE PRINCIPLES OF CONTINUUM DAMAGE MECHANICS AND THE EFFECTIVE STRESS CONCEPT. SEVERAL BOOKS HAVE APPEARED RECENTLY ON DAMAGE MECHANICS BUT ARE MOSTLY THEORETICAL IN NATURE. ALTERNATIVELY, THIS BOOK PROVIDES A COMPLETE FINITE ELEMENT PROGRAM THAT INCLUDES THE EFFECTS OF DAMAGE. THE BOOK CONSISTS OF TWO PARTS. PART I INCLUDES TWO CHAPTERS MAINLY REVIEWING TOPICS FROM

FINITE ELEMENT ANALYSIS AND CONTINUUM DAMAGE MECHANICS. THE READER IS CAUTIONED THAT THE MATERIAL CONTAINED IN THIS PART IS INTRODUCTORY-- OTHER REFERENCES MUST BE CONSULTED FOR THE THEORETICAL ASPECTS OF THESE TOPICS. FOR A COMPLETE THEORETICAL TREATMENT OF THE SUBJECT, THE READER IS REFERRED TO THE BOOK *ADVANCES IN DAMAGE MECHANICS: METALS AND METAL MATRIX COMPOSITES* BY VOYIADJIS AND KATTAN, PUBLISHED IN 1999. IN PART II THE FINITE ELEMENT PROGRAM DNA IS INTRODUCED IN THREE CHAPTERS. DNA STANDS FOR "DAMAGE NONLINEAR ANALYSIS". THE PROGRAM CAN BE USED FOR THE ANALYSIS OF ELASTO-PLASTIC MATERIAL BEHAVIOR INCLUDING THE EFFECTS OF DAMAGE WITHIN THE FRAMEWORK OF DAMAGE MECHANICS. TWO VERSIONS OF DNA ARE PRESENTED-- ONE FOR SMALL STRAIN ANALYSIS AND ONE FOR FINITE STRAIN ANALYSIS. THE PROGRAM MAKES EXTENSIVE CALLS TO A LIBRARY OF TENSOR OPERATIONS DEVELOPED BY THE AUTHORS. THE TENSOR LIBRARY IS EXTENSIVELY OUTLINED IN THE LAST CHAPTER OF THE BOOK.

EXPERT SYSTEMS FOR SOFTWARE ENGINEERS AND MANAGERS - S. DAVID HU 1987

THIS BOOK IS WRITTEN FOR SOFTWARE ENGINEERS, SOFTWARE PROJECT LEADERS, AND SOFTWARE MANAGERS WHO WOULD LIKE TO INTRODUCE A NEW ADVANCED SOFTWARE TECHNOLOGY, EXPERT SYSTEMS, INTO THEIR PRODUCT. EXPERT SYSTEM TECHNOLOGY BRINGS INTO PROGRAMMING A NEW DIMENSION IN WHICH "RULE OF THUMB" OR HEURISTIC EXPERT KNOWLEDGE IS ENCODED IN THE PROGRAM. IN CONTRAST TO CONVENTIONAL PROCEDURAL LANGUAGES {E. G. , FORTRAN OR C}, EXPERT SYSTEMS EMPLOY HIGH-LEVEL PROGRAMMING LANGUAGES {E. , EXPERT SYSTEM SHELLS} THAT ENABLE US TO CAPTURE THE JUDGMENTAL KNOWLEDGE OF EXPERTS SUCH AS GEOLOGISTS, DOCTORS, LAWYERS, BANKERS, OR INSURANCE UNDERWRITERS. PAST EXPERT SYSTEMS HAVE BEEN MORE SUCCESSFULLY APPLIED IN THE PROBLEM AREAS OF ANALYSIS AND SYNTHESIS WHERE THE BOUNDARY OF KNOWLEDGE IS WELL DEFINED AND WHERE EXPERTS ARE AVAILABLE AND CAN BE IDENTIFIED. EARLY SUCCESSFUL APPLICATIONS INCLUDE DIAGNOSIS SYSTEMS SUCH AS MYCIN, GEOLOGICAL SYSTEMS SUCH AS PROSPECTOR, OR DESIGN/CONFIGURATION SYSTEMS SUCH AS XCON. THESE EARLY EXPERT SYSTEMS WERE MAINLY APPLICABLE TO SCIENTIFIC AND ENGINEERING PROBLEMS, WHICH ARE NOT THEORETICALLY WELL UNDERSTOOD IN TERMS OF DECISIONMAKING PROCESSES BY THEIR EXPERTS AND WHICH THEREFORE REQUIRE JUDGMENTAL ASSESSMENT. THE MORE RECENT EXPERT SYSTEMS ARE BEING APPLIED TO SOPHISTICATED SYNTHESIS PROBLEMS THAT INVOLVE A LARGE NUMBER OF CHOICES, SUCH AS HOW THE ELEMENTS ARE TO BE COMPARED. THESE PROBLEMS NORMALLY ENTAILED A LARGE SEARCH SPACE AND SLOWER SPEED FOR THE EXPERT SYSTEMS DESIGNED. EXAMPLES OF THESE SYSTEMS INCLUDE FACTORY SCHEDULING APPLICATIONS SUCH AS ISIS, OR LEGAL REASONING APPLICATIONS SUCH AS TAXMAN.

NUMERICAL MODELING IN MATERIALS SCIENCE AND ENGINEERING - MICHEL RAPPAZ 2002-11-05

COMPUTING APPLICATION TO MATERIALS SCIENCE IS ONE OF THE FASTEST-GROWING RESEARCH AREAS. THIS BOOK INTRODUCES THE CONCEPTS AND METHODOLOGIES RELATED TO

THE MODELING OF THE COMPLEX PHENOMENA OCCURRING IN MATERIALS PROCESSING. IT IS INTENDED FOR UNDERGRADUATE AND GRADUATE STUDENTS IN MATERIALS SCIENCE AND ENGINEERING, MECHANICAL ENGINEERING AND PHYSICS, AND FOR ENGINEERING PROFESSIONALS OR RESEARCHERS.

ENCYCLOPEDIA OF COMPUTER SCIENCE AND TECHNOLOGY - JACK BELZER 1976-03-01

"THIS COMPREHENSIVE REFERENCE WORK PROVIDES IMMEDIATE, FINGERTIP ACCESS TO STATE-OF-THE-ART TECHNOLOGY IN NEARLY 700 SELF-CONTAINED ARTICLES WRITTEN BY OVER 900 INTERNATIONAL AUTHORITIES. EACH ARTICLE IN THE ENCYCLOPEDIA FEATURES CURRENT DEVELOPMENTS AND TRENDS IN COMPUTERS, SOFTWARE, VENDORS, AND APPLICATIONS...EXTENSIVE BIBLIOGRAPHIES OF LEADING FIGURES IN THE FIELD, SUCH AS SAMUEL ALEXANDER, JOHN VON NEUMANN, AND NORBERT WIENER...AND IN-DEPTH ANALYSIS OF FUTURE DIRECTIONS."

THE WORLD SOFTWARE INDUSTRY AND SOFTWARE ENGINEERING - ROBERT SCHWARTZ 1989

HIGH PERFORMANCE COMPUTING IN STRUCTURAL ENGINEERING - HOJJAT ADELI 1998-11-30

HIGH-PERFORMANCE MULTIPROCESSOR COMPUTERS PROVIDE NEW AND INTERESTING OPPORTUNITIES TO SOLVE LARGE-SCALE STRUCTURAL ENGINEERING PROBLEMS. HOWEVER, THE DEVELOPMENT OF NEW COMPUTATIONAL MODELS AND ALGORITHMS THAT EXPLOIT THE UNIQUE ARCHITECTURE OF THESE MACHINES REMAINS A CHALLENGE. HIGH PERFORMANCE COMPUTING IN STRUCTURAL ENGINEERING EXPLORES THE USE OF SUPERCOMPUTERS WITH VECTORIZATION AND PARALLEL PROCESSING CAPABILITIES IN STRUCTURAL ENGINEERING APPLICATIONS. THE BOOK FOCUSES ON THE OPTIMIZATION OF LARGE STRUCTURES SUBJECTED TO THE COMPLICATED, IMPLICIT, AND DISCONTINUOUS CONSTRAINTS OF COMMONLY USED DESIGN CODES AND PRESENTS ROBUST PARALLEL-ALGORITHMS FOR ANALYSIS OF THESE STRUCTURES. THE AUTHORS APPLY THE ALGORITHMS TO AND ANALYZE THE PERFORMANCE OF MINIMUM WEIGHT DESIGNS OF LARGE, STEEL SPACE TRUSSES AND MOMENT-RESISTING FRAMES, WITH OR WITHOUT BRACINGS, CONSISTING OF DISCRETE STANDARD SHAPES. THEY CLEARLY SHOW THAT ADROIT AND JUDICIOUS USE OF VECTORIZATION TECHNIQUES CAN IMPROVE THE SPEEDUP OF AN OPTIMIZATION ALGORITHM, AND THAT PARALLEL PROCESSING CAN LEAD TO EVEN FURTHER SPEEDUP. WITH ITS REVIEW OF THE NECESSARY BACKGROUND MATERIAL, GENEROUS ILLUSTRATIONS, AND UNIQUE CONTENT, THIS IS THE DEFINITIVE RESOURCE FOR THE ANALYSIS AND OPTIMIZATION OF STRUCTURE ON SHARED-MEMORY MULTIPROCESSOR COMPUTERS. BY EXTENSION, HIGH PERFORMANCE COMPUTING IN STRUCTURAL ENGINEERING WILL PROVE EQUALLY VALUABLE IN DISTRIBUTED COMPUTING ON A CLUSTER OF WORKSTATIONS

FOUNDATIONS OF COMPUTER TECHNOLOGY - ALEXANDER JOHN ANDERSON 1994-09-08

FOUNDATIONS OF COMPUTER TECHNOLOGY IS AN EASILY ACCESSIBLE INTRODUCTION TO THE ARCHITECTURE OF COMPUTERS AND PERIPHERALS. THIS TEXTBOOK CLEARLY AND COMPLETELY EXPLAINS MODERN COMPUTER SYSTEMS THROUGH AN APPROACH THAT INTEGRATES COMPONENTS, SYSTEMS,

SOFTWARE, AND DESIGN. IT PROVIDES A SUCCINCT, SYSTEMATIC, AND READABLE GUIDE TO COMPUTERS, PROVIDING A SPRINGBOARD FOR STUDENTS TO PURSUE MORE DETAILED TECHNOLOGY SUBJECTS. THIS VOLUME FOCUSES ON HARDWARE ELEMENTS WITHIN A COMPUTER SYSTEM AND THE IMPACT OF SOFTWARE ON ITS ARCHITECTURE. IT DISCUSSES PRACTICAL ASPECTS OF COMPUTER ORGANIZATION (STRUCTURE, BEHAVIOR, AND DESIGN) DELIVERING THE NECESSARY FUNDAMENTALS FOR ELECTRICAL ENGINEERING AND COMPUTER SCIENCE STUDENTS. THE BOOK NOT ONLY LISTS A WIDE RANGE OF TERMS, BUT ALSO EXPLAINS THE BASIC OPERATIONS OF COMPONENTS WITHIN A SYSTEM, AIDED BY MANY DETAILED ILLUSTRATIONS. MATERIAL ON MODERN TECHNOLOGIES IS COMBINED WITH A HISTORICAL PERSPECTIVE, DELIVERING A RANGE OF ARTICLES ON HARDWARE, ARCHITECTURE AND SOFTWARE, PROGRAMMING METHODOLOGIES, AND THE NATURE OF OPERATING SYSTEMS. IT ALSO INCLUDES A UNIFIED TREATMENT ON THE ENTIRE COMPUTING SPECTRUM, RANGING FROM MICROCOMPUTERS TO SUPERCOMPUTERS. EACH SECTION FEATURES LEARNING OBJECTIVES AND CHAPTER OUTLINES. SMALL GLOSSARY ENTRIES DEFINE TECHNICAL TERMS AND EACH CHAPTER ENDS WITH AN ALPHABETICAL LIST OF KEY TERMS FOR REFERENCE AND REVIEW. REVIEW QUESTIONS ALSO APPEAR AT THE END OF EACH CHAPTER AND PROJECT QUESTIONS INSPIRE READERS TO RESEARCH BEYOND THE TEXT. SHORT, ANNOTATED BIBLIOGRAPHIES DIRECT STUDENTS TO ADDITIONAL USEFUL READING.

COMPUTERS AND COMMERCE - ARTHUR LAWRENCE NORBERG 2005

"BOTH ERA AND EMCC HAD THEIR ROOTS IN WORLD WAR II, AND IN POSTWAR YEARS BOTH FIRMS RECEIVED MAJOR FUNDING FROM THE UNITED STATES GOVERNMENT. NORBERG ANALYZES THE INTERACTION BETWEEN THE TWO COMPANIES AND THE GOVERNMENT AND EXAMINES THE IMPACT OF THIS INSTITUTIONAL CONTEXT ON TECHNOLOGICAL INNOVATION. HE LOOKS AT THE TWO FIRMS' OPERATIONS AFTER 1951 AS INDEPENDENT SUBSIDIARIES OF REMINGTON RAND, AND DOCUMENTS THE MANAGEMENT PROBLEMS THAT BEGAN AFTER REMINGTON RAND MERGED WITH SPERRY GYROSCOPE TO FORM SPERRY RAND IN 1955"--JACKET.

ADVANCED COMPUTATIONAL METHODS FOR KNOWLEDGE ENGINEERING - NGUYEN-THINH LE 2017-06-26

THESE PROCEEDINGS CONSIST OF 19 PAPERS, WHICH HAVE BEEN PEER-REVIEWED BY INTERNATIONAL PROGRAM COMMITTEE AND SELECTED FOR THE 5TH INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE, APPLIED MATHEMATICS AND APPLICATIONS (ICCSAMA 2017), WHICH WAS HELD ON JUNE 30-JULY 1, 2017 IN BERLIN, GERMANY. THE RESPECTIVE CHAPTERS DISCUSS BOTH THEORETICAL AND PRACTICAL ISSUES IN CONNECTION WITH COMPUTATIONAL METHODS AND OPTIMIZATION METHODS FOR KNOWLEDGE ENGINEERING. THE BROAD RANGE OF APPLICATION AREAS DISCUSSED INCLUDES NETWORK COMPUTING, SIMULATION, INTELLIGENT AND ADAPTIVE E-LEARNING, INFORMATION RETRIEVAL, SENTIMENT ANALYSIS, AUTONOMOUS UNDERWATER VEHICLES, SOCIAL MEDIA ANALYSIS, NATURAL LANGUAGE PROCESSING, BIOMIMETICS IN ORGANIZATIONS, AND CASH MANAGEMENT. IN ADDITION TO PURE CONTENT, THE

BOOK OFFERS MANY INSPIRING IDEAS AND SUGGESTS NEW RESEARCH DIRECTIONS, MAKING IT A VALUABLE RESOURCE FOR GRADUATE STUDENTS, PH.D. STUDENTS, AND RESEARCHERS IN COMPUTER SCIENCE AND APPLIED MATHEMATICS ALIKE.

EVOLUTIONARY AND ADAPTIVE COMPUTING IN ENGINEERING DESIGN - IAN C. PARMEE 2001-06-08

FOLLOWING AN INTRODUCTION TO THE VARIOUS TECHNIQUES AND EXAMPLES OF THEIR ROUTINE APPLICATION, THIS POTENTIAL IS EXPLORED THROUGH THE INTRODUCTION OF VARIOUS STRATEGIES THAT SUPPORT SEARCHES ACROSS A FAR BROADER SET OF POSSIBLE DESIGN SOLUTIONS WITHIN TIME AND BUDGET CONSTRAINTS. GENERIC PROBLEM AREAS INVESTIGATED INCLUDE: - DESIGN DECOMPOSITION; - WHOLE-SYSTEM DESIGN; - MULTI-OBJECTIVE AND CONSTRAINT SATISFACTION; - HUMAN-COMPUTER INTERACTION; - COMPUTATIONAL EXPENSE. APPROPRIATE STRATEGIES THAT HELP OVERCOME PROBLEMS OFTEN ENCOUNTERED WHEN INTEGRATING COMPUTER-BASED TECHNIQUES WITH COMPLEX, REAL-WORLD DESIGN ENVIRONMENTS ARE DESCRIBED. A STRAIGHTFORWARD APPROACH COUPLED WITH EXAMPLES SUPPORTS A RAPID UNDERSTANDING OF THE MANNER IN WHICH SUCH STRATEGIES CAN BEST BE DESIGNED TO HANDLE THE COMPLEXITIES OF A PARTICULAR PROBLEM.

ENGINEERING DESIGN SYNTHESIS - AMARESH CHAKRABARTI 2002-02-20

THIS BOOK BRINGS TOGETHER SOME OF THE MOST INFLUENTIAL PIECES OF RESEARCH UNDERTAKEN AROUND THE WORLD IN DESIGN SYNTHESIS. IT IS THE FIRST COMPREHENSIVE WORK OF THIS KIND AND COVERS ALL THREE ASPECTS OF RESEARCH IN DESIGN SYNTHESIS: - UNDERSTANDING WHAT CONSTITUTES AND INFLUENCES SYNTHESIS; - THE MAJOR APPROACHES TO SYNTHESIS; - THE DIVERSE RANGE OF TOOLS THAT ARE CREATED TO SUPPORT THIS CRUCIAL DESIGN TASK. WITH ITS RANGE OF TOOLS AND METHODS COVERED, IT IS AN IDEAL INTRODUCTION TO DESIGN SYNTHESIS FOR THOSE INTENDING TO RESEARCH IN THIS AREA AS WELL AS BEING A VALUABLE SOURCE OF IDEAS FOR EDUCATORS AND PRACTITIONERS OF ENGINEERING DESIGN.

MANUFACTURING DATABASES AND COMPUTER INTEGRATED SYSTEMS - DIMITRIS N. CHORAFAS 1993-07-23

MANUFACTURING DATABASES AND COMPUTER INTEGRATED SYSTEMS IS THE FIRST BOOK TO PROBE THE PROBLEMS AND SOLUTIONS PRESENTED BY THE DIVERSITY OF DATABASES WITHIN THE MANUFACTURING INDUSTRY. THE AUTHOR EXAMINES THESE HETEROGENEOUS DATABASES AT BOTH THE MACRO (NATIONAL/INTERNATIONAL) LEVEL AND MICRO (INTRACOMPANY AND INTERCOMPANY) LEVEL. THIS BOOK IS THE RESULT OF AN EXTENSIVE INTERNATIONAL RESEARCH PROJECT THAT INVOLVED 87 LEADING ORGANIZATIONS. MANUFACTURING DATABASES AND COMPUTER INTEGRATED SYSTEMS PRESENTS THE COMPELLING ARGUMENT FOR USING COMPUTERS AS DATABASE INTEGRATORS, A CONCEPT BEYOND THE OBVIOUS APPLICATIONS OF NUMBER CRUNCHING AND DATA STORAGE. THE BOOK ADDRESSES SEVERAL DIFFERENT AREAS OF MANUFACTURING TECHNOLOGY, INCLUDING PRODUCT POLICIES IN MANUFACTURING, FUZZY CONTROLS IN PLANT OPERATIONS, CONCURRENT ENGINEERING, PRACTICAL APPLICATIONS FOR EXPERT SYSTEMS, ORGANIZATIONAL PREREQUISITES IN MANUFACTURING, HETEROGENEOUS DATABASE

ENVIRONMENTS, THE BENEFITS OF OBJECT-ORIENTED DATABASES, AND THE REQUIREMENTS FOR VIRTUAL DATABASE INTEGRATION. MANUFACTURING DATABASES AND COMPUTER INTEGRATED SYSTEMS ALSO PRESENTS CASE STUDIES, INCLUDING THE TRW SOLUTION APPLIED IN OPERATION DESERT STORM, PROJECT CRONUS BY BBN, THE INTELLIGENT DATABASE ASSISTANT (IDA) BY GTE, GENERAL MOTOR'S DATAPLEX SOLUTION, AND PROJECT CARNOT BY THE MICROELECTRONICS AND COMPUTER DEVELOPMENT CORPORATION (MCC). THE BOOK IS A "MUST" FOR COMPUTER AND DATABASE TECHNOLOGISTS, ENGINEERS, AND SENIOR MANAGEMENT AT MOST COMPANIES WORLDWIDE.

CLEANROOM SOFTWARE ENGINEERING - STACY J. PROWELL 1999

CLEANROOM SOFTWARE ENGINEERING PROVIDES A ROADMAP FOR SOFTWARE MANAGEMENT, DEVELOPMENT, AND TESTING AS DISCIPLINED ENGINEERING PRACTICES. THIS BOOK SERVES BOTH AS AN INTRODUCTION FOR THOSE NEW TO CLEANROOM AND AS A REFERENCE GUIDE FOR THE GROWING PRACTITIONER COMMUNITY. READERS WILL DISCOVER A PROVEN WAY TO RAISE BOTH QUALITY AND PRODUCTIVITY IN THEIR SOFTWARE-INTENSIVE PRODUCTS, WHILE REDUCING COSTS.

THE WORLD WIDE WEB FOR SCIENTISTS & ENGINEERS - BRIAN J. THOMAS 1998

THE WORLD WIDE WEB HAS MATURED INTO A POWERFUL TOOL FOR SCIENTISTS, ENGINEERS, AND RESEARCHERS. IT OFFERS NEW WAYS TO COMMUNICATE IDEAS AND INFORMATION. THIS GUIDE DETAILS STRATEGIES AND TOOLS TO MOVE BEYOND BROWSING, TO ONLINE RESEARCH AND PUBLISHING.

ENCYCLOPEDIA OF COMPUTER SCIENCE - EDWIN D. REILLY 1993

THE REFERENCE OF CHOICE FOR EVERYONE WHO WORKS WITH COMPUTERS, THIS MANUAL HAS LONG BEEN THE ONLY SINGLE-SOURCE VOLUME REFERENCE TO COVER THE ENTIRE FIELD OF COMPUTER SCIENCE. THE NEW EDITION WILL MAINTAIN THIS SOURCE AS THE #1 AUTHORITY IN THE FIELD, BY PROVIDING VALUABLE DATA ON THE MOST CURRENT COMPUTING SYSTEMS, OPERATING SYSTEMS, AND DISTRIBUTED COMPUTING ENVIRONMENTS. ABOUT 70 PERCENT OF THE INFORMATION HAS BEEN REVISED--WITH NEARLY 175 COMPLETELY NEW ENTRIES. THE ENCYCLOPEDIA'S RENOWNED EDITORIAL BOARD HAS MADE SURE THIS DATABASE ENCOMPASSES EVERYTHING FROM THE HISTORY OF ELECTRONIC COMPUTING TO THE MOST CURRENT RESEARCH IN COMPUTER TECHNOLOGY. 12-PAGE COLOR INSERT.

INTERNET OF THINGS IN BIOMEDICAL ENGINEERING - VALENTINA E. BALAS 2019-06-14

INTERNET OF THINGS IN BIOMEDICAL ENGINEERING PRESENTS THE MOST CURRENT RESEARCH IN INTERNET OF THINGS (IoT) APPLICATIONS FOR CLINICAL PATIENT MONITORING AND TREATMENT. THE BOOK TAKES A SYSTEMS-LEVEL APPROACH FOR BOTH HUMAN-FACTORS AND THE TECHNICAL ASPECTS OF NETWORKING, DATABASES AND PRIVACY. SECTIONS DELVE INTO THE LATEST ADVANCES AND CUTTING-EDGE TECHNOLOGIES, STARTING WITH AN OVERVIEW OF THE INTERNET OF THINGS AND BIOMEDICAL ENGINEERING, AS WELL AS A FOCUS ON 'DAILY LIFE.' CONTRIBUTORS FROM VARIOUS EXPERTS THEN DISCUSS 'COMPUTER ASSISTED

ANTHROPOLOGY,³ CLOUDFALL, AND IMAGE GUIDED SURGERY, AS WELL AS BIO-INFORMATICS AND DATA MINING. THIS COMPREHENSIVE COVERAGE OF THE INDUSTRY AND TECHNOLOGY IS A PERFECT RESOURCE FOR STUDENTS AND RESEARCHERS INTERESTED IN THE TOPIC. PRESENTS RECENT ADVANCES IN IoT FOR BIOMEDICAL ENGINEERING, COVERING BIOMETRICS, BIOINFORMATICS, ARTIFICIAL INTELLIGENCE, COMPUTER VISION AND VARIOUS NETWORK APPLICATIONS DISCUSSES BIG DATA AND DATA MINING IN HEALTHCARE AND OTHER IoT BASED BIOMEDICAL DATA ANALYSIS INCLUDES DISCUSSIONS ON A VARIETY OF IoT APPLICATIONS AND MEDICAL INFORMATION SYSTEMS INCLUDES CASE STUDIES AND APPLICATIONS, AS WELL AS EXAMPLES ON HOW TO AUTOMATE DATA ANALYSIS WITH PERL R IN IoT

SOFTWARE CONFLICT - ROBERT L. GLASS 1991
SOFTWARE -- SOFTWARE ENGINEERING.

PRACTICAL HANDBOOK ON IMAGE PROCESSING FOR SCIENTIFIC AND TECHNICAL APPLICATIONS, SECOND EDITION - BERND JAHNE 2004-03-15

THE SECOND EDITION OF A BESTSELLER, THIS BOOK IS A PRACTICAL GUIDE TO IMAGE PROCESSING FOR THE NATURAL AND TECHNICAL SCIENCES COMMUNITY. STUDENTS, PRACTITIONERS, AND RESEARCHERS CAN GAIN IMMEDIATE ACCESS TO A SOUND BASIC KNOWLEDGE OF IMAGE PROCESSING BY REFERENCING GENERAL PRINCIPLES IN THE NATURAL SCIENCES. THE BOOK DESCRIBES CAREFULLY SELECTED ALGORITHMS IN DETAIL AND DEMONSTRATES REAL-WORLD APPLICATIONS THAT SHOW THE READER HOW TO SOLVE COMPLEX IMAGE PROCESSING PROBLEMS. HUNDREDS OF PHOTOS, FIGURES, DIAGRAMS, AND TABLES ILLUSTRATE THE TEXT, AND NUMEROUS WELL-ORGANIZED TIPS SAVE COUNTLESS HOURS IN THE PRACTICAL HANDLING OF IMAGE ACQUISITION AND PROCESSING.

SOME CURRENT ADVANCED RESEARCHES ON INFORMATION AND COMPUTER SCIENCE IN VIETNAM - QUANG A. DANG 2015

THIS BOOK INCLUDES THE EXTENDED AND REVISED VERSIONS OF A SET OF SELECTED PAPERS FROM THE FIRST NAFOSTED CONFERENCE ON INFORMATION AND COMPUTER SCIENCE (NICS'2014), HELD AT LE QUY DON TECHNICAL ACADEMY, HANOI, VIETNAM FROM 13/MAR./2014 TO 14/MAR./2014. THE CONFERENCE WAS CO-ORGANIZED BY THE NATIONAL FOUNDATION FOR SCIENCE AND TECHNOLOGY DEVELOPMENT (NAFOSTED) AND LE QUY DON TECHNICAL ACADEMY. THE PURPOSE OF THE NICS CONFERENCE SERIES IS TO PROMOTE SCIENTIFIC PUBLICATIONS IN THE COUNTRY AND TO PROVIDE A PLATFORM FOR HIGH QUALITY ACADEMIC EXCHANGE AMONG SCIENTISTS IN THE FIELDS OF COMPUTER SCIENCE, INFORMATION AND COMMUNICATION. THE CONFERENCE INCLUDES FIVE TRACKS, NAMELY "COMPUTER SCIENCE", "ARTIFICIAL INTELLIGENCE", "NETWORK SYSTEMS", "SOFTWARE ENGINEERING", AND "INFORMATION SYSTEMS". THE PAPERS IN THIS BOOK ARE AMONG THE BEST CONTRIBUTIONS AT NICS'2014 TAKEN INTO ACCOUNT THE QUALITY OF THEIR PRESENTATION AT THE CONFERENCE AND THE RECOMMENDATION OF THE TWO EXPERTS IN THE EXTRA ROUND OF INDEPENDENT REVIEW. .

ADAPTIVE COMPUTING IN DESIGN AND MANUFACTURE - IAN C. PARMEE 1998-04-15

THESE PAPERS WERE PRESENTED AT THE THIRD INTERNATIONAL CONFERENCE ON ADAPTIVE COMPUTING IN DESIGN AND MANUFACTURE, ORGANISED BY THE PLYMOUTH ENGINEERING DESIGN CENTRE (UNIVERSITY OF PLYMOUTH) AND HELD AT DARTINGTON HALL, DEVON, APRIL 1998. THE COLLECTION IS THE WORK OF LEADING INTERNATIONAL EXPERTS AND RESEARCHERS IN THE FIELD OF THE DEVELOPMENT AND APPLICATION OF EVOLUTIONARY AND ADAPTIVE COMPUTING TECHNIQUES WITHIN THE DESIGN AND MANUFACTURE DOMAIN. SUCH TECHNIQUES INCLUDE GENETIC ALGORITHMS, GENETIC PROGRAMMING, INSECT COLONY METAPHORS AND NEURAL COMPUTING UTILISED WITHIN OVERALL SEARCH, OPTIMISATION AND CONTROL STRATEGIES THAT OFFER SIGNIFICANT UTILITY TO INDUSTRIAL DESIGN, MANUFACTURE AND CONTROL. APPLICATIONS ADDRESS CONCEPTUAL, EMBODIMENT AND DETAILED DESIGN ACROSS ASPECTS OF CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRONIC, AEROSPACE AND POWER SYSTEM ENGINEERING. MANUFACTURING ASPECTS INCLUDE FACILITY LAYOUT, TASK SCHEDULING AND SYSTEM CONTROL. APPLICATION IS ILLUSTRATED IN MOST CASES BY INTEGRATION OF THE VARIOUS ALGORITHMS AND DEVELOPED STRATEGIES WITH REAL-WORLD DESIGN AND MANUFACTURING PROBLEMS. THIS WORK ILLUSTRATES THE SIGNIFICANT INCREASE IN APPLICATION-ORIENTED RESEARCH RELATING TO ADAPTIVE COMPUTING TECHNOLOGIES IN RECENT YEARS AND THE INCREASING INDUSTRIAL INTEREST IN THEIR INTEGRATION WITH CURRENT PRACTICE. THE CONTENT CAN BE CONSIDERED STATE-OF-THE-ART IN TERMS OF APPLICATION AND WILL BE OF PARTICULAR INTEREST TO ASSOCIATED RESEARCH COMMUNITIES AND TO INDUSTRIAL DESIGN AND MANUFACTURE GROUPS WHO ARE EITHER CURRENTLY UTILISING SUCH TECHNIQUES OR WHO WISH TO INTRODUCE THEM TO THEIR ORGANISATIONS.

PROBLEM SOLVING FOR ENGINEERS AND SCIENTISTS - R. FRIEDMAN 1991-05-31

FRIEDMAN TEACHES THE CRUCIAL ENGINEERING SKILL OF PROBLEM SOLVING, USING A CREATIVE QUESTION-AND-ANSWER FORMAT FOR SOLVING PROBLEMS THAT SIMULATES THE TRIAL-AND-ERROR METHODS USED IN THE REAL WORLD.

ADVANCES IN COMPUTERS - MARVIN ZELKOWITZ, PH.D., MS, BS. 2007-06-21

ADVANCES IN COMPUTERS COVERS NEW DEVELOPMENTS IN COMPUTER TECHNOLOGY. MOST CHAPTERS PRESENT AN OVERVIEW OF A CURRENT SUBFIELD WITHIN COMPUTERS, WITH MANY CITATIONS, AND OFTEN INCLUDE NEW DEVELOPMENTS IN THE FIELD BY THE AUTHORS OF THE INDIVIDUAL CHAPTERS. TOPICS INCLUDE HARDWARE, SOFTWARE, THEORETICAL UNDERPINNINGS OF COMPUTING, AND NOVEL APPLICATIONS OF COMPUTERS. THIS CURRENT VOLUME INCLUDES SIX CHAPTERS ON HARDWARE DEVELOPMENT IN THE EDUCATIONAL MARKET, INTELLIGENT SEARCH STRATEGIES, DOMAIN SPECIFIC LANGUAGES AND TRUSTWORTHINESS AND RISKS IN COMPUTER TECHNOLOGY. THE BOOK SERIES IS A VALUABLE ADDITION TO UNIVERSITY COURSES THAT EMPHASIZE THE TOPICS UNDER DISCUSSION IN THAT PARTICULAR VOLUME AS WELL AS BELONGING ON THE BOOKSHELF OF INDUSTRIAL PRACTITIONERS WHO NEED TO IMPLEMENT MANY OF THE TECHNOLOGIES THAT ARE DESCRIBED. TRUSTWORTHINESS AND RISKS IN COMPUTER TECHNOLOGY K-12 EDUCATIONAL USE OF INEXPENSIVE

HANDHELD DEVICES DOMAIN SPECIFIC LANGUAGES
HANDBOOK OF ELECTRONICS PACKAGING DESIGN AND ENGINEERING - BERNARD S. MATISOFF 1982

THE HANDBOOK OF ELECTRONICS PACKAGING DESIGN AND ENGINEERING HAS BEEN WRITTEN AS A REFERENCE SOURCE FOR USE IN THE PACKAGING DESIGN OF ELECTRONICS EQUIPMENT. IT IS DESIGNED TO PROVIDE A SINGLE CONVENIENT SOURCE FOR THE SOLUTION OF RECURRING DESIGN PROBLEMS. THE PRIMARY CONSIDERATION OF ANY DESIGN IS THAT THE END PRODUCT MEET OR EXCEED THE APPLICABLE PRODUCT SPECIFICATIONS. THE JUDICIOUS USE OF UNIFORM DESIGN PRACTICES WILL REALIZE THE FOLLOWING ECONOMIES AND EQUIPMENT IMPROVEMENTS: • ECONOMICS OF DESIGN. UNIFORM DESIGN PRACTICES WILL RESULT IN LESS ENGINEERING AND DESIGN TIMES AND LOWER COSTS. THEY WILL ALSO REDUCE THE NUMBER OF CHANGES THAT MAY BE REQUIRED DUE TO POOR RELIABILITY, MAINTAINABILITY, OR PRODUCIBILITY. • IMPROVED DESIGN. BETTER DESIGNS WITH INCREASED RELIABILITY, MAINTAINABILITY, AND PRODUCIBILITY WILL RESULT FROM THE USE OF UNIFORM DESIGN PRACTICES. • PRODUCTION ECONOMIES. UNIFORM DESIGNS EMPLOYING STANDARD AVAILABLE TOOLS, MATERIALS, AND PARTS WILL RESULT IN THE COST CONTROL OF MANUFACTURING. THE HANDBOOK IS INTENDED PRIMARILY FOR THE SERIOUS STUDENT OF ELECTRONICS PACKAGING AND FOR THOSE ENGINEERS AND DESIGNERS ACTIVELY ENGAGED IN THIS VITAL AND INTERESTING PROFESSION. IT ATTEMPTS TO PRESENT ELECTRONICS PACKAGING AS IT IS TODAY. IT CAN BE USED AS A TRAINING TEXT FOR INSTRUCTIONAL PURPOSES AND AS A REFERENCE SOURCE FOR THE PRACTICING DESIGNER AND ENGINEER.

CREATING THE COMPUTER - KENNETH FLAMM 1988-01-01
LOOKS AT THE TECHNOLOGICAL DEVELOPMENTS THAT LED TO THE DEVELOPMENT OF COMPUTERS, DISCUSSES THE INFLUENCE OF THE MILITARY AND IBM, AND SURVEYS CURRENT COMPETITION

WHAT EVERY ENGINEER SHOULD KNOW ABOUT PRACTICAL CAD/CAM APPLICATIONS - STARK 1986-06-11

THIS AUTHORITATIVE BOOK -- DISCUSSING CAD/CAM IN DETAIL FROM THE USER'S RATHER THAN THE VENDOR'S POINT OF VIEW -- PROVIDES THE VALUABLE INFORMATION ENGINEERS AND MANAGERS NEED FOR OPTIMAL CAD/CAM IMPLEMENTATION AND USE. IT INTRODUCES CAD/CAM HARDWARE AND SOFTWARE, AND DEMONSTRATES HOW TO SELECT A CAD/CAM SOLUTION FOR YOUR COMPANY'S SPECIFIC REQUIREMENTS ... EXPLAINS HOW TO IMPLEMENT A CAD/CAM SYSTEM, WITH SPECIAL ATTENTION TO TRAINING AND EDUCATION, AND WITH USEFUL CHECKLISTS ... DESCRIBES ONGOING SYSTEMS ... PRESENTS AN INFORMATIVE OVERVIEW OF CAD/CAM'S INDUSTRIAL USE ... AND DETAILS CASE STUDIES OF CAD/CAM APPLICATIONS, REPRESENTING A BROAD RANGE OF COMPANIES THROUGHOUT THE WORLD, IN VARIOUS INDUSTRIAL SECTORS, AT DIFFERENT STAGES OF CAD/CAM USE. COMPLETE WITH A GLOSSARY THAT CLEARLY DEFINES ALL CAD/CAM TERMINOLOGY, THIS ESSENTIAL REFERENCE SOURCE IS MANDATORY READING FOR MECHANICAL, MANUFACTURING, AUTOMOTIVE AND AEROSPACE ENGINEERS AND MANAGERS; CAD/CAM SYSTEM VENDORS; COMPUTER MANUFACTURERS; GRADUATE-LEVEL COURSES IN MECHANICAL AND MANUFACTURING ENGINEERING, CAD/CAM,

AND COMPUTER SCIENCE; AND PROFESSIONAL SEMINARS IN MECHANICAL, MANUFACTURING, AND AUTOMOTIVE ENGINEERING. BOOK JACKET.

CONCURRENT ENGINEERING - PEIHUA GU 1993

HARDBOUND. INCREASING GLOBAL COMPETITION IN A PRODUCT-ORIENTED INDUSTRY HAS REQUIRED MANUFACTURING ENTERPRISES TO CONTINUOUSLY IMPROVE PRODUCT QUALITY, FUNCTIONALITY, AND FEATURES, AS WELL AS IMPLEMENTING A REDUCTION IN PRODUCT COST AND TIME TO MARKET. THE TRADITIONAL APPROACH TO PRODUCT DEVELOPMENT REQUIRES A SUBSTANTIAL AMOUNT OF TIME TO EVOLVE THE PRODUCT DESIGN FROM ITS INITIAL CONFIGURATION TO THE FINAL PRODUCT. SINCE 70% OR MORE OF THE TOTAL PRODUCT COST IS DETERMINED IN THE DESIGN STAGES, SIGNIFICANT POTENTIAL SAVINGS CAN BE ACHIEVED BY IMPROVING TRADITIONAL DESIGN PRACTICES. BECAUSE OF ITS EFFECTIVENESS AND GREAT POTENTIAL IN PRODUCT DESIGN, CONCURRENT ENGINEERING (CE) IS ATTRACTING GREAT INTEREST FROM BOTH INDUSTRY AND ACADEMIA. THE THIRTEEN RESEARCH PAPERS IN THIS VOLUME PROVIDE A CURRENT OVERVIEW ON PROGRESS IN CONCURRENT ENGINEERING. DIVIDED INTO TWO PARTS, PART I PRIMARILY FOCUSES ON METHODOLOGY AND APPLICATIONS OF CE, WHILE PART II DISCUSSES **WRITING TECHNICAL ARTICLES, SPEECHES AND MANUALS** - MARK FORBES 1988-07-19

OFFERS A SYSTEMATIC APPROACH TO TECHNICAL WRITING FOR ENGINEERS AND OTHER TECHNICAL PROFESSIONALS, WHILE PROVIDING ENOUGH FLEXIBILITY TO ALLOW THEIR CREATIVITY TO FLOW. SHOWS HOW TO BREAK DOWN A LARGE TECHNICAL WRITING PROJECT INTO SUB-TASKS, JUST AS ANY LARGE TECHNICAL DESIGN PROBLEM WOULD BE SOLVED. FORBES GIVES A WEALTH OF TIPS AND TECHNIQUES ON OUTLINING, AND DISCUSSES HOW TO WRITE DATA SHEETS, APPLICATION NOTES, MAGAZINE ARTICLES, SPEECHES (INCLUDING "FORUM" SPEECHES AND TECHNICAL PRESENTATIONS FOR SMALL GROUPS), AND TECHNICAL MANUALS OF ALL TYPES. INCLUDES TECHNIQUES FOR COMPLETING PROJECTS WHEN TIME IS SHORT.
INTELLIGENT SYSTEMS FOR ENGINEERING - RAM D. SRIRAM 1997-07-23

THIS COMPREHENSIVE, WELL-ILLUSTRATED BOOK COVERS KNOWLEDGE-BASED SYSTEMS AND NEURAL NETWORKS WITH THE EMPHASIS ON ENGINEERING APPLICATIONS THROUGHOUT. THE BOOK INCLUDES APPENDICES WHICH SURVEY THE COMMERCIALLY AVAILABLE KNOWLEDGE-BASED SYSTEM BUILDING TOOLS, A CRITICAL TREATMENT OF INEXACT INFERENCE TECHNIQUES, AND AN ANALYSIS OF DEVICE REPRESENTATION. DESIGNED WITH THE GRADUATE STUDENT IN MIND, THE BOOK WILL ALSO BE OF GREAT VALUE AS A REFERENCE WORK FOR PRACTICING ELECTRICAL ENGINEERS.
ADAPTIVE COMPUTING IN DESIGN AND MANUFACTURE V - I.C. PARMEE 2002-04-18

THE ADAPTIVE COMPUTING IN DESIGN AND MANUFACTURE CONFERENCE SERIES IS NOW IN ITS TENTH YEAR AND HAS BECOME A WELL-ESTABLISHED, APPLICATION-ORIENTED MEETING RECOGNISED BY SEVERAL UK ENGINEERING INSTITUTIONS AND THE INTERNATIONAL SOCIETY OF GENETIC AND EVOLUTIONARY COMPUTING. THE MAIN THEME OF THE CONFERENCE AGAIN RELATES TO THE INTEGRATION OF EVOLUTIONARY AND ADAPTIVE COMPUTING TECHNOLOGIES

WITH DESIGN AND MANUFACTURING PROCESSES WHILST ALSO TAKING INTO ACCOUNT COMPLEMENTARY ADVANCED COMPUTING TECHNOLOGIES. EVOLUTIONARY AND ADAPTIVE COMPUTING TECHNIQUES CONTINUE TO INCREASE THEIR PENETRATION OF INDUSTRIAL AND COMMERCIAL PRACTICE AS THEIR POWERFUL SEARCH, EXPLORATION AND OPTIMISATION CAPABILITIES BECOME EVER MORE APPARENT. THE LAST TWO YEARS HAVE SEEN A VERY SIGNIFICANT INCREASE IN THE DEVELOPMENT OF COMMERCIAL SOFTWARE TOOLS UTILISING ADAPTIVE COMPUTING TECHNOLOGIES AND THE EMERGENCE OF RELATED COMMERCIAL RESEARCH AND CONSULTANCY ORGANISATIONS SUPPORTING THE INTRODUCTION OF BEST PRACTICE IN TERMS OF INDUSTRIAL UTILISATION. ADAPTIVE COMPUTING IN DESIGN AND MANUFACTURE V IS COMPRISED OF SELECTED PAPERS THAT COVER A DIVERSE SET OF INDUSTRIAL APPLICATION AREAS INCLUDING: ENGINEERING DESIGN AND DESIGN ENVIRONMENTS, MANUFACTURING PROCESS DESIGN, SCHEDULING AND CONTROL, ELECTRONIC CIRCUIT DESIGN, FAULT DETECTION. VARIOUS ASPECTS OF SEARCH AND OPTIMISATION SUCH AS MULTI-OBJECTIVE AND CONSTRAINED OPTIMISATION ARE ALSO INVESTIGATED IN THE CONTEXT OF INTEGRATION WITH INDUSTRIAL PROCESSES. IN ADDITION TO EVOLUTIONARY COMPUTING TECHNIQUES, BOTH NEURAL-NET AND AGENT-BASED TECHNOLOGIES PLAY A ROLE IN A NUMBER OF CONTRIBUTIONS. THIS COLLECTION OF PAPERS WILL BE OF PARTICULAR INTEREST TO BOTH INDUSTRIAL RESEARCHERS AND PRACTITIONERS IN ADDITION TO THE ACADEMIC RESEARCH COMMUNITIES OF ENGINEERING, OPERATIONAL RESEARCH AND COMPUTER SCIENCE.

THE SCIENCE OF VIRTUAL REALITY AND VIRTUAL ENVIRONMENTS - ROY S. KALAWSKY 1993

AIMED AT ENGINEERS AND SCIENTISTS WHO REQUIRE A THOROUGH GROUNDING IN THE NEW GENERATION OF COMPUTER INTERFACE, THIS UNIQUE BOOK DRAWS TOGETHER PREVIOUSLY INACCESSIBLE TECHNICAL INFORMATION INTO A SINGLE SOURCE. IT PROVIDES THE FIRST COMPREHENSIVE REFERENCE TO VIRTUAL REALITY. INCLUDES A DETAILED EXPLANATION OF THE UNDERLYING PRINCIPLES OF VIRTUAL REALITY, INCLUDING ITS CURRENT LIMITATIONS.

IoT - SOUVIK PAL 2020-06-03

IOT: SECURITY AND PRIVACY PARADIGM COVERS THE EVOLUTION OF SECURITY AND PRIVACY ISSUES IN THE INTERNET OF THINGS (IoT). IT FOCUSES ON BRINGING ALL SECURITY AND PRIVACY RELATED TECHNOLOGIES INTO ONE SOURCE, SO THAT STUDENTS, RESEARCHERS, AND PRACTITIONERS CAN REFER TO THIS BOOK FOR EASY UNDERSTANDING OF IoT SECURITY AND PRIVACY ISSUES. THIS EDITED BOOK USES SECURITY ENGINEERING AND PRIVACY-BY-DESIGN PRINCIPLES TO DESIGN A SECURE IoT ECOSYSTEM AND TO IMPLEMENT CYBER-SECURITY SOLUTIONS. THIS BOOK TAKES THE READERS ON A JOURNEY THAT BEGINS WITH UNDERSTANDING THE SECURITY ISSUES IN IoT-ENABLED TECHNOLOGIES AND HOW IT CAN BE APPLIED IN VARIOUS

ASPECTS. IT WALKS READERS THROUGH ENGAGING WITH SECURITY CHALLENGES AND BUILDS A SAFE INFRASTRUCTURE FOR IoT DEVICES. THE BOOK HELPS READERS GAIN AN UNDERSTAND OF SECURITY ARCHITECTURE THROUGH IoT AND DESCRIBES THE STATE OF THE ART OF IoT COUNTERMEASURES. IT ALSO DIFFERENTIATES SECURITY THREATS IN IoT-ENABLED INFRASTRUCTURE FROM TRADITIONAL AD HOC OR INFRASTRUCTURAL NETWORKS, AND PROVIDES A COMPREHENSIVE DISCUSSION ON THE SECURITY CHALLENGES AND SOLUTIONS IN RFID, WSNs, IN IoT. THIS BOOK AIMS TO PROVIDE THE CONCEPTS OF RELATED TECHNOLOGIES AND NOVEL FINDINGS OF THE RESEARCHERS THROUGH ITS CHAPTER ORGANIZATION. THE PRIMARY AUDIENCE INCLUDES SPECIALISTS, RESEARCHERS, GRADUATE STUDENTS, DESIGNERS, EXPERTS AND ENGINEERS WHO ARE FOCUSED ON RESEARCH AND SECURITY RELATED ISSUES. SOUVIK PAL, PhD, HAS WORKED AS ASSISTANT PROFESSOR IN NALANDA INSTITUTE OF TECHNOLOGY, BHUBANESWAR, AND JIS COLLEGE OF ENGINEERING, KOLKATA (NAAC "A" ACCREDITED COLLEGE). HE IS THE ORGANIZING CHAIR AND PLENARY SPEAKER OF RICE CONFERENCE IN VIETNAM; AND ORGANIZING CO-CONVENER OF ICICIT, TUNISIA. HE HAS SERVED IN MANY CONFERENCES AS CHAIR, KEYNOTE SPEAKER, AND HE ALSO CHAIRED INTERNATIONAL CONFERENCE SESSIONS AND PRESENTED SESSION TALKS INTERNATIONALLY. HIS RESEARCH AREA INCLUDES CLOUD COMPUTING, BIG DATA, WIRELESS SENSOR NETWORK (WSN), INTERNET OF THINGS, AND DATA ANALYTICS. VICENTE GARCIA AZ, PhD, IS AN ASSOCIATE PROFESSOR IN THE DEPARTMENT OF COMPUTER SCIENCE AT THE UNIVERSITY OF OVIEDO (LANGUAGES AND COMPUTER SYSTEMS AREA). HE IS ALSO THE EDITOR OF SEVERAL SPECIAL ISSUES IN PRESTIGIOUS JOURNALS SUCH AS SCIENTIFIC PROGRAMMING AND INTERNATIONAL JOURNAL OF INTERACTIVE MULTIMEDIA AND ARTIFICIAL INTELLIGENCE. HIS RESEARCH INTERESTS INCLUDE eLEARNING, MACHINE LEARNING AND THE USE OF DOMAIN SPECIFIC LANGUAGES IN DIFFERENT AREAS. DAC-NHUONG LE, PhD, IS DEPUTY-HEAD OF FACULTY OF INFORMATION TECHNOLOGY, AND VICE-DIRECTOR OF INFORMATION TECHNOLOGY APPLY AND FOREIGN LANGUAGE TRAINING CENTER, HAIPHONG UNIVERSITY, VIETNAM. HIS AREA OF RESEARCH INCLUDES: EVALUATION COMPUTING AND APPROXIMATE ALGORITHMS, NETWORK COMMUNICATION, SECURITY AND VULNERABILITY, NETWORK PERFORMANCE ANALYSIS/ANALYSIS, NETWORK COMMUNICATION, IoT AND IMAGE PROCESSING IN BIOMEDICAL. PRESENTLY, HE IS SERVING ON THE EDITORIAL BOARD OF SEVERAL INTERNATIONAL JOURNALS AND HAS AUTHORED NINE COMPUTER SCIENCE BOOKS PUBLISHED BY SPRINGER, WILEY, CRC PRESS, LAMBERT PUBLICATION, AND SCHOLAR PRESS.

- MASARU

TOMITA 1990-12-31

COMPUTER GRAPHICS - JAMES D. FOLEY 1996
ON COMPUTER GRAPHICS