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Advanced Information Systems Engineering Workshops

CAiSE 2016 International Workshops, Ljubljana, Slovenia, June 13-17, 2016, Proceedings

Springer **This book constitutes the thoroughly refereed proceedings of five international workshops held in Ljubljana, Slovenia, in conjunction with the 28th International Conference on Advanced Information Systems Engineering, CAiSE 2016, in June 2016. The 16 full and 9 short papers were carefully selected from 51 submissions. The associated workshops were the Third International Workshop on Advances in Services DEsign based on the Notion of CApabiliy (ASDENCA) co-arranged with the First International Workshop on Business Model Dynamics and Information Systems Engineering (BumDISE), the Fourth International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the First International Workshop on Energy-awareness and Big Data Management in Information Systems (EnBIS), the Second International Workshop on Enterprise Modeling (EM), and the Sixth International Workshop on Information Systems Security Engineering (WISSE).**

Process Control Engineering

John Wiley & Sons **This book surveys methods, problems, and tools used in process control engineering. Its scope has been purposely made broad in order to permit an overall view of this subject. This book is intended both for interested nonspecialists who wish to become acquainted with the discipline of process control engineering and for process control engineers, who should find it helpful in identifying individual tasks and organizing them into a coherent whole. A central concern of this treatment is to arrive at a consistent and comprehensive way of thinking about process control engineering and to show how the several specialities can be organically fitted into this total view.**

Information Systems Engineering in Complex Environments

CAiSE Forum 2014, Thessaloniki, Greece, June 16-20, 2014, Selected Extended Papers

Springer **This book constitutes the proceedings of the CAiSE Forum from the 26th International Conference on Advanced Information Systems Engineering, CAiSE 2014, held in Thessaloniki, Greece, June 2014. The CAiSE 2014 Forum was a place to present and discuss new ideas, emerging topics, and controversial positions, and to demonstrate innovative tools and systems related to information systems engineering. To this end, three types of submissions were invited: visionary papers presenting innovative research projects at an early stage, demo papers describing novel tools and prototypes; and case studies reporting industrial applications. The 17 papers in this volume were carefully reviewed and selected from 45 submissions and include 12 visionary papers, four demo papers, and one case study. The reworked and extended versions of the original presentations cover topics such as business process management, process mining, enterprise architecture and modeling, model-driven development, and requirements engineering.**

Flexible Method for Inter-object

Communication in C++

Innovations and Advances in Computer Sciences and Engineering

Springer Science & Business Media **Innovations and Advances in Computer Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Innovations and Advances in Computer Sciences and Engineering includes selected papers form the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2008) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).**

Scientific and Engineering Computations for the 21st Century - Methodologies and Applications

Proceedings of the 15th Toyota Conference

Elsevier **The 20th century saw tremendous achievements and progress in science and technology. Undoubtedly, computers and computer-related technologies acted as one of vital catalysts for accelerating this progress in the latter half of the century. The contributions of mathematical sciences have been equally profound, and the synergy between mathematics and computer science has played a key role in accelerating the progress of both fields as well as science and engineering. Mathematical sciences will undoubtedly continue to play this vital role in this new century. In particular, mathematical modeling and numerical simulation will continue to be among the essential methodologies for solving massive and complex problems that arise in science, engineering and manufacturing. Underpinning this all from a sound, theoretical perspective will be numerical algorithms. In recognition of this**

observation, this volume focuses on the following specific topics. (1) Fundamental numerical algorithms (2) Applications of numerical algorithms (3) Emerging technologies. The articles included in this issue by experts on advanced scientific and engineering computations from numerous countries elucidate state-of-the-art achievements in these three topics from various angles and suggest the future directions. Although we cannot hope to cover all the aspects in scientific and engineering computations, we hope that the articles will interest, inform and inspire members of the science and engineering community.

Advances in Conceptual Modeling

ER'99 Workshops on Evolution and Change in Data Management, Reverse Engineering in Information Systems, and the World Wide Web and Conceptual Modeling Paris, France, November 15-18, 1999 Proceedings

Springer **The objective of the workshops associated with the ER'99 18th International Conference on Conceptual Modeling is to give participants access to high level presentations on specialized, hot, or emerging scientific topics. Three themes have been selected in this respect: — Evolution and Change in Data Management (ECDM'99) dealing with han dling the evolution of data and data structure, — Reverse Engineering in Information Systems (REIS'99) aimed at exploring the issues raised by legacy systems, — The World Wide Web and Conceptual Modehng (WWWCM'99) which ana lyzes the mutual contribution of WWW resources and techniques with con ceptual modeling. ER'99 has been organized so that there is no overlap between conference ses sions and the workshops. Therefore participants can follow both the conference and the workshop presentations they are interested in. I would like to thank the ER'99 program co-chairs, Jacky Akoka and Mokrane Bouzeghoub for having given me the opportunity to organize these workshops. I would also like to thank Stephen Liddle for his valuable help in managing the evaluation procedure for submitted papers and helping to prepare the workshop proceedings for**

publication. August 1999 Jacques Kouloumdjian Preface for ECDM'99 The first part of this volume contains the proceedings of the First International Workshop on Evolution and Change in Data Management, ECDM'99, which was held in conjunction with the 18th International Conference on Conceptual Modehng (ER'99) in Paris, France, November 15-18, 1999.

Mining Software Engineering Data for Software Reuse

Springer Nature **This monograph discusses software reuse and how it can be applied at different stages of the software development process, on different types of data and at different levels of granularity. Several challenging hypotheses are analyzed and confronted using novel data-driven methodologies, in order to solve problems in requirements elicitation and specification extraction, software design and implementation, as well as software quality assurance. The book is accompanied by a number of tools, libraries and working prototypes in order to practically illustrate how the phases of the software engineering life cycle can benefit from unlocking the potential of data. Software engineering researchers, experts, and practitioners can benefit from the various methodologies presented and can better understand how knowledge extracted from software data residing in various repositories can be combined and used to enable effective decision making and save considerable time and effort through software reuse. Mining Software Engineering Data for Software Reuse can also prove handy for graduate-level students in software engineering.**

Federal Software Exchange Catalog Supplement

Trade-off Considerations in Highway Geometric Design

Transportation Research Board **At head of title: National Cooperative Highway Research Program.**

Computer Aided Design in Control

and Engineering Systems

Advanced Tools for Modern Technology

Elsevier **Computer Aided Design in Control and Engineering Systems contains the proceedings of the 3rd International Federation of Automatic Control/International Federation for Information Processing Symposium held in Lyngby, Denmark, from July 31 to August 2, 1985. The papers review the state of the art and the trends in development of computer aided design (CAD) of control and engineering systems, techniques, procedures, and concepts. This book is comprised of 74 chapters divided into 17 sections and begins with a description of a prototype computer environment that combines expert control system analysis and design tools. The discussion then turns to decision support systems which could be used to address problems of management and control of large-scale multiproduct multiline batch manufacturing outside the mechanical engineering industries. The following chapters focus on the use of CAD in control education, industrial applications of CAD, and hardware/software systems. Some examples of universal and specialized CAD packages are presented, and applications of CAD in electric power plants, process control systems, and transportation systems are highlighted. The remaining chapters look at CAD/computer aided engineering/computer aided manufacturing systems as well as the use of mathematical methods in CAD. This monograph will be of interest to practitioners in computer science, computer engineering, and industrial engineering.**

Product-Focused Software Process Improvement

20th International Conference, PROFES 2019, Barcelona, Spain, November 27–29, 2019,

Proceedings

Springer Nature **This book constitutes the refereed proceedings of the 20th International Conference on Product-Focused Software Process Improvement, PROFES 2019, held in Barcelona, Spain, in November 2019. The 24 revised full papers 4 industry papers, and 11 short papers presented were carefully reviewed and selected from 104 submissions. The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs. They are organized in topical sections on testing, software development, technical debt, estimations, continuous delivery, agile, project management, microservices, and continuous experimentation. This book also includes papers from the co-located events: 10 project papers, 8 workshop papers, and 4 tutorial summaries.**

Information Technology and Computer Application Engineering

Proceedings of the International Conference on Information Technology and Computer Application Engineering (ITCAE 2013)

CRC Press **This proceedings volume brings together some 189 peer-reviewed papers presented at the International Conference on Information Technology and Computer Application Engineering, held 27-28 August 2013, in Hong Kong, China. Specific topics under consideration include Control, Robotics, and Automation, Information Technology, Intelligent Computing and Telecommunication, Computer Science and Engineering, Computer Education and Application and other related topics. This book provides readers a state-of-the-art survey of recent innovations and research worldwide in Information Technology and Computer Application Engineering, in so-doing furthering the development and growth of these research fields, strengthening international academic cooperation and communication, and promoting the fruitful exchange of research ideas. This volume will be of interest to professionals and academics alike,**

serving as a broad overview of the latest advances in the dynamic field of Information Technology and Computer Application Engineering.

Computing, Control, Information and Education Engineering

Proceedings of the 2015 Second International Conference on Computer, Intelligent and Education Technology (CICET 2015), April 11-12, 2015, Guilin, P.R. China

CRC Press **This proceedings set contains selected Computer, Information and Education Technology related papers from the 2015 International Conference on Computer, Intelligent Computing and Education Technology (CICET 2015), to be held April 11-12, 2015 in Guilin, P.R. China. The proceedings aims to provide a platform for researchers, engineers and academics**

Emerging Methods, Technologies, and Process Management in Software Engineering

John Wiley & Sons **A high-level introduction to new technologies andmethods in the field of software engineering Recent years have witnessed rapid evolution of software engineering methodologies, and until now, there has been no single-source introduction to emerging technologies in the field. Written by a panel of experts and divided into four clear parts, Emerging Methods, Technologies, and Process Management in SoftwareEngineering covers: Software Architectures – Evolution of software composition mechanisms; compositionality in software product lines; and teaching design patterns Emerging Methods – The impact of agent-oriented software engineering in service-oriented computing; testing object-oriented software; the UML and formal methods; and modern Web application development Technologies for Software Evolution – Migrating to Web services and software evolution analysis and visualization Process**

Management – Empirical experimentation in software engineering and foundations of agile methods Emerging Methods, Technologies, and Process Management in Software Engineering is a one-stop resource for software engineering practitioners and professionals, and also serves as an ideal textbook for undergraduate and graduate students alike.

GIS and Geocomputation for Water Resource Science and Engineering

John Wiley & Sons **GIS and Geocomputation for Water Resource Science and Engineering not only provides a comprehensive introduction to the fundamentals of geographic information systems but also demonstrates how GIS and mathematical models can be integrated to develop spatial decision support systems to support water resources planning, management and engineering. The book uses a hands-on active learning approach to introduce fundamental concepts and numerous case-studies are provided to reinforce learning and demonstrate practical aspects. The benefits and challenges of using GIS in environmental and water resources fields are clearly tackled in this book, demonstrating how these technologies can be used to harness increasingly available digital data to develop spatially-oriented sustainable solutions. In addition to providing a strong grounding on fundamentals, the book also demonstrates how GIS can be combined with traditional physics-based and statistical models as well as information-theoretic tools like neural networks and fuzzy set theory.**

Accenture Placement Papers - 10 Full-length Mock Tests (Solved)

EduGorilla Community Pvt. Ltd. **• Best Selling Book for Accenture Placement Papers with objective-type questions as per the latest syllabus. • Compare your performance with other students using Smart Answer Sheets in EduGorilla's Accenture Placement Papers Practice Kit. • Accenture Placement Papers Preparation Kit comes with 10 Full-length Mock Tests with the best quality content. • Increase your chances of selection by 14X. • Accenture Placement Papers Prep Kit comes with well-structured and 100% detailed solutions for all the questions. • Clear exam with good grades using thoroughly Researched Content by experts.**

An Introduction to Python

Programming for Scientists and Engineers

Cambridge University Press **Textbook that uses examples and Jupyter notebooks from across the sciences and engineering to teach Python programming.**

Proceedings of the 2012 International Conference on Communication, Electronics and Automation Engineering

Springer Science & Business Media **This book is a collection of selected papers from the 2011 International Conference on Communications, Electronics and Automation Engineering hold in Xi'an, China, August 23-25, 2012. It presents some of the latest research findings in a broad range of interdisciplinary fields related to communications, electronics and automation engineering. Specific emphasis is placed on the following topics: automation control, data mining and statistics, simulation and mathematical modeling, human factors and cognitive engineering, web technology, optimization and algorithm, and network communications. The prime objective of the book is to familiarize the readers with cutting edge developments in the research of electronics and automation engineering with a variety of applications. Hopefully, the book can help researchers to identify research trends in many areas, to learn the new methods and tools, and to spark innovative ideas.**

4th IFAC/IFIP International Conference on Digital Computer Applications to Process Control

Zürich, Switzerland, March 19–22,

1974 Part I

Springer Science & Business Media **Digital computers have been used more and more to control different industrial processes during the last decade. As of today, many sy stems are designed to include a process control computer as a vital part. The use of computers has created a need for sophisticated me thods for the operation and supervision of complex industrial proces ses. To summarize the state of the art from the practical as well as from the theoretical point of view, the 4th IFACIIFIP International Conference on "Digital Computer Applications to Process Control" will be held at Zurich from March 19 to 22, 1974. The first two vo lumes of the proceedings contain the accepted papers submitted to the conference mentioned above. The papers are arranged according to the topics of the conference. A third volume will include the six follow ing survey papers: 1. Digital Control Algorithms Prof. A. P. Sage, Dallas Texas I USA 2. Interface Problems for Process Control Prof. T. J. Williams, Lafayette Indiana I USA 3. Software for Process Computers Dr. J. Gertler, Budapest I Hungary Dr. J. Sedlak, Prague I CSSR 4. Digital Computer Applications in Metallurgical Processes Mr. W. E. Miller, Salem I USA Mr. W. G. Wright, Schenectady I USA 5. Digital Computer Applications in Power Systems Mr. D. Ernst, Erlangen / FRG 6. Digital Computer Applications in Chemical and Oil Industries Dr. H.**

Proceedings of the First Federal Interagency Hydrologic Modeling Conference

Theme--Bridging the Gap Between Technology and Implementation of Surface Water Quantity and Quality Models in the Next Century : Tropicana Hotel, April 19-23, 1998,

Las Vegas, Nevada

HECDSS

User's Guide and Utility Program Manuals

25th Southern Biomedical Engineering Conference 2009; 15 - 17 May, 2009, Miami, Florida, USA

Springer Science & Business Media **th On behalf of the steering and organizing committees I would like to welcome you to sunny Miami Florida for the 25 Sou- ern Biomedical Engineering Conference. This year we are excited to have visitors from all over North America, South American, Europe and Asia to share exciting developments in all areas of Biomedical Engineering. The main objective of this conference is to bring together students, researchers and clinicians in Biomedical Engineering to disseminate technical information in this rapidly growing field, and provide a forum consisting of established as well as new and future researchers in this exciting engineering field. This year's meeting features more than 140 high quality papers, many by students, for oral presentations and publication in the conference proceedings. The conference owes its success to the dedicated work of the keynote speakers, conference chairs, authors, participants, students, organizers, and the College of Engineering and Computing webmaster. We wish to especially acknowledge the work of the peer reviewers, program committee, staff of the BME Department, and the student organizing committee. We also wish to acknowledge the sponsorship of the National Science Foundation and the International Federation of Medical and Biological Engineering, and Simpleware, Ltd. We hope that you enjoy your experience, make new collaborations and lasting friendships.**

Software Design and Development:

Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions. Software Design and Development: Concepts, Methodologies, Tools, and Applications brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.**

Python for Data Analysis

Data Wrangling with Pandas, NumPy, and IPython

"O'Reilly Media, Inc." **Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples**

E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **Advances in medical technology increase both the efficacy and efficiency of medical practice, and mobile technologies enable modern doctors and nurses to treat patients remotely from anywhere in the world. This technology raises issues of quality of care and medical ethics, which must be addressed. E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications explores recent advances in mobile medicine and how this technology impacts modern medical care. Three volumes of comprehensive coverage on crucial topics in wireless technologies for enhanced medical care make this multi-volume publication a critical reference source for doctors, nurse practitioners, hospital administrators, and researchers and academics in all areas of the medical field. This seminal publication features comprehensive chapters on all aspects of e-health and telemedicine, including implementation strategies; use cases in cardiology, infectious diseases, and cytology, among others; care of individuals with autism spectrum disorders; and medical image analysis.**

Computer Vision: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **The fields of computer vision and image processing are constantly evolving as new research and applications in these areas emerge. Staying abreast of the most up-to-date developments in this field is necessary in order to promote further research and apply these developments in real-world settings. Computer Vision: Concepts, Methodologies, Tools, and**

Applications is an innovative reference source for the latest academic material on development of computers for gaining understanding about videos and digital images. Highlighting a range of topics, such as computational models, machine learning, and image processing, this multi-volume book is ideally designed for academicians, technology professionals, students, and researchers interested in uncovering the latest innovations in the field.

Methodologies for Intelligent Systems

8th International Symposium, ISMIS '94, Charlotte, North Carolina, USA, October 16 - 19, 1994. Proceedings

Springer Science & Business Media **This volume contains the revised versions of the papers presented at the Eighth International Symposium on Methodologies for Intelligent Systems (ISMIS '94), held in Charlotte, North Carolina, USA in October 1994. Besides four invited contributions by renowned researchers on key topics, there are 56 full papers carefully selected from more than 120 submissions. The book presents the state of the art for methodologies for intelligent systems; the papers are organized in sections on approximate reasoning, evolutionary computation, intelligent information systems, knowledge representation, methodologies, learning and adaptive systems, and logic for AI.**

Enterprise Information Systems: Concepts, Methodologies, Tools and Applications

Concepts, Methodologies, Tools and Applications

IGI Global **This three-volume collection, titled Enterprise Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information**

systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems.

Innovative Mobile and Internet Services in Ubiquitous Computing

Proceedings of the 13th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2019)

Springer **This book highlights the latest research findings, methods and techniques, as well as challenges and solutions related to Ubiquitous and Pervasive Computing (UPC). In this regard, it employs both theoretical and practical perspectives, and places special emphasis on innovative, mobile and internet services. With the proliferation of wireless technologies and electronic devices, there is a rapidly growing interest in Ubiquitous and Pervasive Computing (UPC). UPC makes it possible to create a human-oriented computing environment in which computer chips are embedded in everyday objects and interact with the physical world. Through UPC, people can remain online even while underway, thus enjoying nearly permanent access to their preferred services. Though it has a great potential to revolutionize our lives, UPC also poses a number of new research challenges.**

Advances in Computer and Information Sciences and Engineering

Springer Science & Business Media **Advances in Computer and Information Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer**

Engineering, and Systems Engineering and Sciences. Advances in Computer and Information Sciences and Engineering includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

Resources in Education

Application Development and Design: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life. These applications can be utilized across different technological platforms. Application Development and Design: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as software design, mobile applications, and web applications, this multi-volume book is ideally designed for researchers, academics, engineers, professionals, students, and practitioners interested in emerging technology applications.**

Situational Method Engineering: Fundamentals and Experiences

Proceedings of the IFIP WG 8.1 Working Conference, 12-14

September 2007, Geneva, Switzerland

Springer Science & Business Media **Over the last decade, Method Engineering, defined as the engineering discipline to design, construct and adapt methods, including supportive tools, has emerged as the research and application area for using methods for systems development. This book contains the papers from the IFIP Working Group 8.1 conference on Situational Method Engineering.**

Handbook of Industrial Engineering Technology and Operations Management

John Wiley & Sons **Unrivaled coverage of a broad spectrum of industrial engineering concepts and applications The Handbook of Industrial Engineering, Third Edition contains a vast array of timely and useful methodologies for achieving increased productivity, quality, and competitiveness and improving the quality of working life in manufacturing and service industries. This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications: technology; performance improvement management; management, planning, and design control; and decision-making methods. Completely updated and expanded to reflect nearly a decade of important developments in the field, this Third Edition features a wealth of new information on project management, supply-chain management and logistics, and systems related to service industries. Other important features of this essential reference include: * More than 1,000 helpful tables, graphs, figures, and formulas * Step-by-step descriptions of hundreds of problem-solving methodologies * Hundreds of clear, easy-to-follow application examples * Contributions from 176 accomplished international professionals with diverse training and affiliations * More than 4,000 citations for further reading The Handbook of Industrial Engineering, Third Edition is an immensely useful one-stop resource for industrial engineers and technical support personnel in corporations of any size; continuous process and discrete part manufacturing industries; and all types of service industries, from healthcare to hospitality, from retailing to finance. Of related interest . . . HANDBOOK OF HUMAN FACTORS AND ERGONOMICS, Second Edition Edited by Gavriel Salvendy (0-471-11690-4) 2,165 pages 60 chapters "A comprehensive guide that contains practical knowledge and technical**

background on virtually all aspects of physical, cognitive, and social ergonomics. As such, it can be a valuable source of information for any individual or organization committed to providing competitive, high-quality products and safe, productive work environments."-John F. Smith Jr., Chairman of the Board, Chief Executive Officer and President, General Motors Corporation (From the Foreword)

Modern Software Engineering Concepts and Practices: Advanced Approaches

Advanced Approaches

IGI Global **Software engineering has advanced rapidly in recent years in parallel with the complexity and scale of software systems. New requirements in software systems yield innovative approaches that are developed either through introducing new paradigms or extending the capabilities of well-established approaches. Modern Software Engineering Concepts and Practices: Advanced Approaches provides emerging theoretical approaches and their practices. This book includes case studies and real-world practices and presents a range of advanced approaches to reflect various perspectives in the discipline.**

Handbook of Research on Manufacturing Process Modeling and Optimization Strategies

IGI Global **Recent improvements in business process strategies have allowed more opportunities to attain greater developmental performances. This has led to higher success in day-to-day production and overall competitive advantage. The Handbook of Research on Manufacturing Process Modeling and Optimization Strategies is a pivotal reference source for the latest research on the various manufacturing methodologies and highlights the best optimization approaches to achieve boosted process performance. Featuring extensive coverage on relevant areas such as genetic algorithms, fuzzy set theory, and soft computing techniques, this publication is an ideal resource for researchers, practitioners, academicians, designers, manufacturing engineers, and institutions involved in design and manufacturing projects.**

Ethical Reasoning in Big Data

An Exploratory Analysis

Springer **This book springs from a multidisciplinary, multi-organizational, and multi-sector conversation about the privacy and ethical implications of research in human affairs using big data. The need to cultivate and enlist the public's trust in the abilities of particular scientists and scientific institutions constitutes one of this book's major themes. The advent of the Internet, the mass digitization of research information, and social media brought about, among many other things, the ability to harvest – sometimes implicitly – a wealth of human genomic, biological, behavioral, economic, political, and social data for the purposes of scientific research as well as commerce, government affairs, and social interaction. What type of ethical dilemmas did such changes generate? How should scientists collect, manipulate, and disseminate this information? The effects of this revolution and its ethical implications are wide-ranging. This book includes the opinions of myriad investigators, practitioners, and stakeholders in big data on human beings who also routinely reflect on the privacy and ethical issues of this phenomenon. Dedicated to the practice of ethical reasoning and reflection in action, the book offers a range of observations, lessons learned, reasoning tools, and suggestions for institutional practice to promote responsible big data research on human affairs. It caters to a broad audience of educators, researchers, and practitioners. Educators can use the volume in courses related to big data handling and processing. Researchers can use it for designing new methods of collecting, processing, and disseminating big data, whether in raw form or as analysis results. Lastly, practitioners can use it to steer future tools or procedures for handling big data. As this topic represents an area of great interest that still remains largely undeveloped, this book is sure to attract significant interest by filling an obvious gap in currently available literature.**

Computers in Mechanical Engineering

CIME.

Mine Planning and Equipment Selection 1995

CRC Press **This text presents about 150 papers based on an international symposium on mine planning and equipment selection, held in Canada in 1995. Coverage includes: design and planning of surface and underground mines; surface mining and the environment; tailings disposal; and slope stability analysis.**