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INTRODUCTION TO DATA MINING WITH CASE STUDIES G. K. GUPTA

2014-06-28 The field of data mining provides techniques for automated discovery of valuable information from the accumulated data of computerized operations of enterprises. This book offers a clear and comprehensive introduction to both data mining theory and practice. It is written primarily as a textbook for the students of computer science, management, computer applications, and information technology. The book ensures that the students learn the major data mining techniques even if they do not have a strong mathematical background. The techniques include data pre-processing, association rule mining, supervised classification, cluster analysis, web data mining, search engine query mining, data warehousing and OLAP. To enhance the understanding of the concepts introduced, and to show how the

techniques described in the book are used in practice, each chapter is followed by one or two case studies that have been published in scholarly journals. Most case studies deal with real business problems (for example, marketing, e-commerce, CRM). Studying the case studies provides the reader with a greater insight into the data mining techniques. The book also provides many examples, review questions, multiple choice questions, chapter-end exercises and a good list of references and Web resources especially those which are easy to understand and useful for students. A number of class projects have also been included.

Cyber Crime Dr. T. Srinivasarao, Dr. B. Srikanth, Dr. S. Jayaprada, Dr. B. Sai Chandana, 2020-01-01 This textbook examines the psychology of cyber crime. It aims to be useful to both undergraduate and postgraduate students from a wide variety of disciplines, including criminology, psychology and information technology. Because of the diversity of backgrounds of potential readers, this book presumes no prior knowledge of either the psychological or technological aspects of cyber crime – key concepts in both areas are defined as they arise in the chapters that follow. The chapters consider research that has been conducted in each area, but also apply psychological theories and models to

each type of cyber crime. The chapters also consider many aspects of each cyber crime.

Wireless and Mobile Communications Jack M. Holtzman 2012-12-06 In October 1993, the Rutgers University Wireless Information Network Laboratory hosted the fourth WINLAB Workshop on Third Generation Wireless Information Networks. These events bring together a select group of experts interested in the long term future of Personal Communications, Mobile Computing, and other services supported by wireless telecommunications technology. This is a fast moving field and we already see, in present practice, realizations of visions articulated in the earlier Workshops. In particular, the second generation systems that absorbed the attention of the first WINLAB Workshop, are now commercial products. It is an interesting reflection on the state of knowledge of wireless communications that the debates about the relative technical merits of these systems have not yet been resolved. Meanwhile, in the light of United States Government announcements in September 1993 the business and technical communities must confront this year a new generation of Personal Communications Services. Here we have applications in search of the best technologies rather than the reverse. This is

a rare situation in the information business. Today's advanced planning and forward looking studies will prevent technology shortages and uncertainties at the end of this decade. By then, market size and public expectations will surpass the capabilities of the systems of the mid-1990's. Third Generation Wireless Information Networks will place greater burdens on technology than their predecessors by offering a wider range of services and a higher degree of service integration.

Computer Fundamentals and Problem Solving

Finite Element Analysis G. Lakshmi Narasaiah 2021-03 Finite Element Method popularly known as FEM has undergone a major paradigm shift from a detailed mathematical background to write tailor made computer programs, to an understanding of the subject for better utilisation of available software such as ANSYS, NISA, ADINA, PAFEC, NASTRAN etc. The author with his rich experience, has made an effort in this direction and prepared a textbook on FEM ideally suited for engineering students and design engineers. Special Features - Comprehensive study material including all relevant topics - approximate methods, matrix operations and theory of elasticity - Example problems & case studies for better understanding of the concepts - Includes

properties of ductile and brittle materials, for design checks - Solved problems & objective questions - for students - Examples with a commercial software (ANSYS), common data mistakes and validation of results for code compliance - for practicing design engineers - Brief coverage of fracture mechanics, contact and gap elements & CFD.

Advanced Digital Signal Processing Jian Wang 2018-06 Signal processing applications frequently encounter multi-dimensional real-time performance requirements and restrictions on resources, which makes software implementation complex. Although major advances have been made in embedded processor technology for this application domain particularly, in technology for programmable digital signal processors - traditional compiler techniques applied to such platforms do not generate machine code of desired quality. Consequently, low-level, human-driven fine-tuning of software implementations is needed, and we are therefore in need of more effective strategies for software implementation for signal processing applications. In this book, a number of important memory and performance optimization problems are addressed for translating high-level representations of signal processing applications into embedded software implementations. This book

covers selected topics in advanced digital signal processing (DSP), including theories and applications, containing contributions by a large number of experts around the world. It is intended to provide highlights of the current trends in the digital signal processing area, showing the recent advances in this field. The covered chapters present practical advances and recent applications of digital signal processing in several areas as communications, filtering, medicine, astronomy, and image processing. This book will fulfill the need of students and researchers in the digital signal processing and related areas as well as appeal to anyone with a scientific background desiring to have knowledgeable overview of this field.

PICA Conference Proceedings 1991

Computer Aided Design and Manufacturing M.M.M. SARCAR 2008-05-05 The impact of the technology of Computer-Aided Design and Manufacturing in automobile engineering, marine engineering and aerospace engineering has been tremendous. Using computers in manufacturing is receiving particular prominence as industries seek to improve product quality, increase productivity and to reduce inventory costs. Therefore, the emphasis has been attributed to the subject of CAD and its integration with CAM. Designed as a

textbook for the undergraduate students of mechanical engineering, production engineering and industrial engineering, it provides a description of both the hardware and software of CAD/CAM systems. The Coverage Includes ? Principles of interactive computer graphics ? Wireframe, surface and solid modelling ? Finite element modelling and analysis ? NC part programming and computer-aided part programming ? Machine vision systems ? Robot technology and automated guided vehicles ? Flexible manufacturing systems ? Computer integrated manufacturing ? Artificial intelligence and expert systems ? Communication systems in manufacturing PEDAGOGICAL FEATURES ? CNC program examples and APT program examples ? Review questions at the end of every chapter ? A comprehensive Glossary ? A Question Bank at the end of the chapters

VLSI, Technology and Design Otto G. Folberth 1984

Coding Theory and Applications Ángela I. Barbero 2017-08-22 This book constitutes the refereed proceedings of the 5th International Castle Meeting on Coding Theory and Applications, ICMCTA 2017, held in Vihula, Estonia, in August 2017. The 24 full papers presented were carefully reviewed and selected for inclusion in this volume. The papers cover relevant research areas

in modern coding theory, including codes and combinatorial structures, algebraic geometric codes, group codes, convolutional codes, network coding, other applications to communications, and applications of coding theory in cryptography.

Machine Learning Peter Flach 2012-09-20 Covering all the main approaches in state-of-the-art machine learning research, this will set a new standard as an introductory textbook.

Linear Systems: Analysis And Applications, Second Edition

Handbook of Research on Mathematical Modeling for Smart Healthcare

Systems Samanta, Debabrata 2022-06-24 Advances in healthcare

technologies have offered real-time guidance and technical assistance for diagnosis, monitoring, operation, and interventions. The development of artificial intelligence, machine learning, internet of things technology, and smart computing techniques are crucial in today's healthcare environment as they provide frictionless and transparent financial transactions and improve the overall healthcare experience. This, in turn, has far-reaching effects on economic, psychological, educational, and organizational improvements in the way we work, teach, learn, and provide care. These advances must be studied

further in order to ensure they are adapted and utilized appropriately. The Handbook of Research on Mathematical Modeling for Smart Healthcare Systems presents the latest research findings, ideas, innovations, developments, and applications in the field of modeling for healthcare systems. Furthermore, it presents the application of innovative techniques to complex problems in the case of healthcare. Covering a range of topics such as artificial intelligence, deep learning, and personalized healthcare services, this reference work is crucial for engineers, healthcare professionals, researchers, academicians, scholars, practitioners, instructors, and students.

Systems and Signal Processing 1991

Novel Practices and Trends in Grid and Cloud Computing Raj, Pethuru 2019-06-28 Business and IT organizations are currently embracing new strategically sound concepts in order to be more customer-centric, competitive, and cognitive in their daily operations. While useful, the various software tools, pioneering technologies, as well as their unique contributions largely go unused due to the lack of information provided on their special characteristics. Novel Practices and Trends in Grid and Cloud Computing is a collection of innovative research on the key concerns of cloud computing and how they are

being addressed, as well as the various technologies and tools empowering cloud theory to be participative, penetrative, pervasive, and persuasive. While highlighting topics including cyber security, smart technology, and artificial intelligence, this book is ideally designed for students, researchers, and business managers on the lookout for innovative IT solutions for all the business automation software and improvisations of computational technologies.

Engineering Mathematics-I Dr. T.K.V. Iyengar, Dr. B. Krishna Gandhi, S. Ranganatham & Dr. M.V.S.S.N. Prasad 1979 Engineering Mathematics-I
Embedded Systems Architecture Tammy Noergaard 2012-12-31 Embedded Systems Architecture is a practical and technical guide to understanding the components that make up an embedded system's architecture. This book is perfect for those starting out as technical professionals such as engineers, programmers and designers of embedded systems; and also for students of computer science, computer engineering and electrical engineering. It gives a much-needed 'big picture' for recently graduated engineers grappling with understanding the design of real-world systems for the first time, and provides professionals with a systems-level picture of the key elements that can go into

an embedded design, providing a firm foundation on which to build their skills. Real-world approach to the fundamentals, as well as the design and architecture process, makes this book a popular reference for the daunted or the inexperienced: if in doubt, the answer is in here! Fully updated with new coverage of FPGAs, testing, middleware and the latest programming techniques in C, plus complete source code and sample code, reference designs and tools online make this the complete package Visit the companion web site at <http://booksite.elsevier.com/9780123821966/> for source code, design examples, data sheets and more A true introductory book, provides a comprehensive get up and running reference for those new to the field, and updating skills: assumes no prior knowledge beyond undergrad level electrical engineering Addresses the needs of practicing engineers, enabling it to get to the point more directly, and cover more ground. Covers hardware, software and middleware in a single volume Includes a library of design examples and design tools, plus a complete set of source code and embedded systems design tutorial materials from companion website

Python with Machine Learning A Krishna Mohan et al. This book contains in-depth knowledge of "Python with Machine Learning". This book is written in a

logical and sequential, outputs with print screen, modules for systematic development of the subject. This book is covered for all the students those who are interested to learn programming on Python and Machine learning. Each and Every program along with example is executed practically. This book is aimed at emerging trends in Technology, development all over the Globe and even corporate people also will learn all the topics. Each topic is explained very simple and given a lot of example with syntax. It has been written in an articulate manner and is packed with practical approach target for all students of Undergraduate, Graduate, of Computer Science and Engineering (M.Tech, M.C.A, M.Sc (CS, IT) B.Tech), Research Scholar and Corporate Employees those who are new to this area.

Engineering Mathematics-I T.K.V. Iyengar, B. Krishna Gandhi, S.

Ranganatham & M.V.S.S.N. Prasad Engineering Mathematics-I

Basic Electrical Engineering Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G

T Chandra Sekhar This book is designed based on revised syllabus of JNTU,

Hyderabad (AICTE model curriculum) for under-graduate (B.Tech/BE)

students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a

firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

Neural Networks Simon Haykin 1994 Learning process - Correlation matrix memory - The perceptron - Least-mean-square algorithm - Multilayer perceptrons - Radial-basis function networks - Recurrent networks rooted in statistical physics - Self-organizing systems I : hebbian learning - Self-organizing systems II : competitive learning - Self-organizing systems III : information-theoretic models - Modular networks - Temporal processing - Neurodynamics - VLSI implementations of neural networks.

Professional Ethics and Human Values A. Alavudeen 2008

Advanced Computer Architecture KAI. HWANG 2010

Engineering Mathematics Vol.-III T K V Iyengar, B Krishna Gandhi, S

Ranganatham & M V S S N Prasad Engineering Mathematics Vol.-III

Linear Systems: Analysis And Applications, Second Edition V. Kamaraju 2009-

01-01 This book provides an up-to-date information on a number of important topics in Linear Systems. Salient Features:" Introduces discrete systems including Z-transformations in the analysis of Linear Systems including

synthesis." Emphasis on Fourier series analysis and applications." Fourier transforms and its applications." Network functions and synthesis with Laplace transforms and applications." Introduction to discrete-time control system." Z-Transformations and its applications." State space analysis of continuous and discrete-time analysis." Discrete transform analysis." A large number of solved and unsolved problems, review questions, MCQs." Index

CLOUD COMPUTING RAO, M.N. 2015-05-21 Cloud Computing has grown popular as a new prototype for providing services over the Internet. This introductory textbook on Cloud Computing is suitable for undergraduate students of computer science engineering, and for postgraduate students of computer science and computer applications. It teaches both the basic concepts and cloud technologies by adopting a straightforward approach of presenting theoretical concepts and cloud models. Several Cloud providers of distinct types are discussed here with their advantages and disadvantages. Different cloud services are also covered in this book. The book advances on the cloud architecture and cloud examples that are latest in market. Salient Features Clear and concise explanations Discussion on cloud models with diagrams In-depth analysis of various cloud architectures Numerous case

studies Several questions from previous question papers

DATA SCIENCE Dr.Venkataramana Sarella 2022-05-01 DATA SCIENCE

WRITTEN BY Dr.Venkataramana Sarella,Mr. Sandeep Srivastava,
Dr.K.Jamberi, Dr.Syed Khasim

Engineering Mathematics Volume - I (For 1st Semester of JNTU, Kakinada)
Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N.

Engineering Mathematic

COMPUTER GRAPHICS K.Sonisharmila, K.Rameshchandra 2019-05-07 The course, titled COMPUTER GRAPHICS is one of the most fundamental subjects. This subject is being taught to B. Tech students of Computer Science and Engineering, Information Technology in all engineering colleges affiliated to JNTU, Kakinada and various other universities in India. This book is written, keeping in mind the syllabus of various universities. It is also in accordance with the latest (R16) syllabus of JNTU, Kakinada. The main objective of this book is to provide comprehensive coverage in the fields of computer graphics. It is suitable both as a textbook for students and a manual for professionals. The book contains exercises throughout the textbook with solutions.

Engineering Physics Volume I (For 1st Year of JNTU, Kakinada) Kumar,

Vijaya K. 2011 Interference | Diffraction | Polarization | Crystal Structures | Crystal Planes And X-Ray Diffraction | Laser | Fiberoptics | Non-Destructive Testing Using Ultrasonics | Question Papers | Appendix

Engineering Mathematics Volume - II (Mathematical Methods) (For 1st Year, 1st Semester of JNTU, Kakinada) Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N. Engineering Mathematic

Engineering Mathematics-II T.K.V. Iyengar, B. Krishna Gandhi, S. Ranganatham & M.V.S.S.N. Prasad Engineering Mathematics-II

Conference Papers 1991

Novel Drug Delivery Systems and Regulatory Affairs Sudhakar Yajaman & Jayaveera K.N. 2014 Novel Drug Delivery Systems | Transdermal Drug Delivery Systems | Mucoadhesive Drug Delivery Systems | Targeted Drugdelivery Systems | Regulatory Agencies | Quality Assurance | Good Manufacturing Practices | Validation

Computer Organization V. Carl Hamacher 1990

ICT in Education and Implications for the Belt and Road Initiative Chee-Kit Looi 2020-10-21 With increasing global challenges, the Belt and Road initiative seems to offer one possible platform to think about different possibilities and

pathways to promote international collaboration and development covering Asia, Europe, Africa, and other countries. Information and Communication Technology (ICT) in education, as a key focus, provides valuable perspectives for governments, inter-governmental and non-governmental agencies wanting to innovate and advance both ICT and education independently and collaboratively. This book highlights the burgeoning of ICT in education in eleven countries, with particular emphasis placed on the context of the Belt and Road Initiative. ICT has increasingly important roles in education including improve teaching and learning qualities, as well as equity in education. The prominent contributors describe the state-of-the-art of ICT in education in eleven countries based on six major themes (policy perspectives, infrastructure, educational resources, ICT integration into practices, students' ICT competence, and teachers' professional development). We hope the in-depth discussions included in this book would provoke more academic and policy insights globally.

Additive Manufacturing Technologies From an Optimization Perspective

Kumar, Kaushik 2019-06-28 In this technology-driven era, conventional manufacturing is increasingly at risk of reaching its limit, and a more design-

driven manufacturing process, additive manufacturing, might just hold the key to innovation. Offering a higher degree of design freedom, the optimization and integration of functional features, and the manufacturing of small batch sizes, additive manufacturing is changing industry as we know it. Additive Manufacturing Technologies From an Optimization Perspective is a critical reference source that provides a unified platform for the dissemination of basic and applied knowledge about additive manufacturing. It carefully examines how additive manufacturing is increasingly being used in series production, giving those in the most varied sectors of industry the opportunity to create a distinctive profile for themselves based on new customer benefits, cost-saving potential, and the ability to meet sustainability goals. Highlighting topics such as bio-printing, tensile strength, and cell printing, this book is ideally designed for academicians, students, engineers, scientists, software developers, architects, entrepreneurs, and medical professionals interested in advancements in next-generation manufacturing.

Engineering Mathematics Volume III (Linear Algebra and Vector Calculus) (For 1st Year, 2nd Semester of JNTU, Kakinada) Iyenger T.K.V./ Gandhi, Krishna

B./ Ranganatham S. & Prasad M.V.S.S.N. Engineering Mathematics
Advanced Engineering Mathematics with MATLAB Dean G. Duffy 2022-01-03

In the four previous editions the author presented a text firmly grounded in the mathematics that engineers and scientists must understand and know how to use. Tapping into decades of teaching at the US Navy Academy and the US Military Academy and serving for twenty-five years at (NASA) Goddard Space Flight, he combines a teaching and practical experience that is rare among authors of advanced engineering mathematics books. This edition offers a smaller, easier to read, and useful version of this classic textbook. While competing textbooks continue to grow, the book presents a slimmer, more concise option. Instructors and students alike are rejecting the encyclopedic tome with its higher and higher price aimed at undergraduates. To assist in the choice of topics included in this new edition, the author reviewed the syllabi of various engineering mathematics courses that are taught at a wide variety of schools. Due to time constraints an instructor can select perhaps three to four topics from the book, the most likely being ordinary differential equations, Laplace transforms, Fourier series and separation of variables to solve the wave, heat, or Laplace's equation. Laplace transforms are occasionally

replaced by linear algebra or vector calculus. Sturm-Liouville problem and special functions (Legendre and Bessel functions) are included for completeness. Topics such as z-transforms and complex variables are now offered in a companion book, *Advanced Engineering Mathematics: A Second Course* by the same author. MATLAB is still employed to reinforce the concepts that are taught. Of course, this Edition continues to offer a wealth of examples and applications from the scientific and engineering literature, a highlight of previous editions. Worked solutions are given in the back of the book.

Introduction To Machine Learning Dr. S. RANGA SWAMY 2021-04-26

Machine learning was built from an engineering perspective, while machine learning was born out of a computer science approach. In the one side the operations may be looked at as two different areas, but they have grown in tandem over the past years and around the same period. Other than the univariate methodology (the conventional way of doing things), there has been a great rise in non-uniform approaches. , algorithmic and graphical simulations are being used for statistical and quantitative trading in all kinds of markets. Also, the functional applicability of Bayesian approaches has been significantly

improved by the development of a variety of estimated inference algorithms such as variational Bayes and expectation propagation. Related to the effect of recent kernels, broader versions have had a huge impact on both algorithms and implementations. This textbook provides a detailed exploration of recent innovations in these fields thus describing the basic elements in these fields and thus offering a concise introduction to these fields. The book is accompanied by a great deal of supplementary content, example problems as well as the full collection of figures included in the book.