Network Analysis Written By Ganesh Rao

The book is about the seed development in the model and crop plants. Seed development is a key step of the plant life cycle that determines the nutrient value of seeds – the life for human civilization, growth, and development. The nutrient value of seeds is mainly due to storage reserve products such as carbohydrates, lipids (triacylglycerols), and proteins. The book primarily focuses on application of the 21st century high-throughput technologies transcriptomics, proteomics, metabolomics, and systems biology in near complete understanding of the various processes involved in seed development in different crop plants. The book reveals how such technologies have revolutionized our understanding of the multilayer processes and regulations involved therein by generating large-scale datasets. Accumulated datasets provide basic knowledge to develop integrated strategies to eventually improve the nutritional value of plant seed and crop yield, a critical goal in food security issues around the globe.

Agility has become very important for the industries today as the lifetimes of the products are continuously shrinking. This book provides an excellent opportunity for updating understanding of agile methods from the design, manufacturing and business process perspectives, whether one is an industrial practitioner, academic researcher engineer or business graduate student. This volume is a compilation of various important aspects of agility consisting of systemic considerations in manufacturing, agile software systems, agile business systems, agile operations research, flexible manufacturing systems, advanced manufacturing systems with improved materials and mechanical behavior of products, agile aspects of design, clean and

green manufacturing systems, environment, agile defence systems.

Emerging Location Aware Broadband Wireless Ad Hoc Networks is a compilation of new material on wireless networking and technology addressing several technical challenges in the field. The contributions are authored by distinguished experts who presented experimental results on their work at the recent International Symposium on Personal, Indoor, Mobile, Radio Communications (PIMRC) held in Barcelona, Spain, September 5-8, 2004. The authors present new results on issues involving wireless LANs and ad hoc networks; mobile wireless internet and satellite applications; encoding, algorithms and performance; and issues related to overlay networks, cross layer interactions and smart antennas. Whether you're a telecommunications/networking specialist, systems engineer or a scientist, Emerging Location Aware Broadband Wireless Ad Hoc Networks provides valuable insight from experts in wireless networking for developing wireless systems and meeting future application requirements.

This book discusses applications of blockchain in healthcare sector. The security of confidential and sensitive data is of utmost importance in healthcare industry. The introduction of blockchain methods in an effective manner will bring secure transactions in a peer-to-peer network. The book also covers gaps of the current available books/literature available for use cases of Distributed Ledger Technology (DLT) in healthcare. The information and applications discussed in the book are immensely helpful for researchers, database professionals, and practitioners. The book also discusses protocols, standards, and government regulations which are very useful for policymakers. /div /div /div /div /div /div /div /div /div /div /div /div /div /div /div /div /div /div /div /div

This book provides stepwise discussion, exhaustive literature review, detailed analysis and discussion, rigorous experimentation results (using several analytics tools), and an application-oriented approach that can be demonstrated with respect to data analytics using artificial intelligence to make systems stronger (i.e., impossible to breach). We can see many serious cyber breaches on Government databases or public profiles at online social networking in the recent decade. Today artificial intelligence or machine learning is redefining every aspect of cyber security. From improving organizations ability to anticipate and thwart breaches, protecting the proliferating number of threat surfaces with Zero Trust Security frameworks to making passwords obsolete, AI and machine learning are essential to securing the perimeters of any business. The book is useful for researchers, academics, industry players, data engineers, data scientists, governmental organizations, and non-governmental organizations. This volume contains the proceedings of the Sixth Workshop on Hybrid Systems: Computation and Control (HSCC 2003), which was held in Prague, during April 3–5, 2003. The Hybrid Systems workshops attract researchers interested in the modeling, analysis, control, and implementation of systems which involve the interaction of both discrete and continuous state dynamics. The newest results and latest developments in hybrid system models, formal methods for analysis and control, computational tools, as well as new applications and examples are presented at these annual meetings. The Sixth Workshop continued the series of workshops held in Grenoble, France (HART'97), Berkeley, California, USA (HSCC'98), Nijmegen, The Neth- lands (HSCC'99), Pittsburgh, Pennsylvania, USA (HSCC 2000), Rome, Italy (HSCC 2001), and Stanford, California, USA (HSCC 2002). Proceedings of these workshops have been published by Springer-Verlag in the Lecture Notes in C- puter Science

(LNCS) series. This year we assembled a technical program committee with a broad expertise in formal methods in computer science, control theory, applied mathematics, and arti?cial intelligence. We received a set of 75 high-quality submitted papers. After detailed review and discussion of these papers by the program committee, 36 papers were accepted for presentation at the workshop, and the ?nal versions of these papers appear in this volume. Comments by global thought leaders on Business of Staffing: A Talent Agenda: "Your section on how HR needs to change in a digital context is spot on with those twenty points" (M. S. Krishnan, Associate Dean, Global Initiatives, Accenture Professor of Computer Information Systems, Professor of Technology and Operations, Ross School of Business, University of Michigan, Ann Arbor, Michigan). "Ganesh Shermon has really nailed it. He really knows this area well. Well worth reading for anyone interested in this field" (Mark Smith, National Industry Leader, Financial services, KPMG LLP; earlier Global Head of People & Change Practice). "A must-read for today's HR professionals as they seek to learn evidence-based practices as they transform their talent management performance" (Laura Croucher, Americas leader, KPMG HR, Transformation Centre of Excellence).

This book constitutes the refereed proceedings of five workshops that were held in conjunction with the 25th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2021, in Delhi, India, in May 2021. The 17 revised full papers presented were carefully reviewed and selected from a total of 39 submissions.. The five workshops were as follows: Workshop on Smart and Precise Agriculture (WSPA 2021) PAKDD 2021 Workshop on Machine Learning for Measurement Informatics (MLMEIN 2021) The First Workshop and Shared Task on Scope Detection of the Peer Review Articles (SDPRA 2021) The First

International Workshop on Data Assessment and Readiness for AI (DARAI 2021) The First International Workshop on Artificial Intelligence for Enterprise Process Transformation (AI4EPT 2021)

As the demand for efficient energy sources continues to grow around the globe, electrical systems are becoming more essential in an effort to meet these increased needs. As these systems are being utilized more frequently, it becomes imperative to find ways of optimizing their overall function. The Handbook of Research on Emerging Technologies for Electrical Power Planning, Analysis, and Optimization features emergent methods and research in the systemic and strategic planning of energy usage. Highlighting theoretical perspectives and empirical research, this handbook is a comprehensive reference source for researchers, practitioners, students, and professionals interested in the current advancements and efficient use in power systems. "This book provides an updated overview of signal processing applications and recent developments in EMG from a number of diverse aspects and various applications in clinical and experimental research"--Provided by publisher. Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about significant changes and technological advancements. This book presents the proceedings of the 3rd

International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; 'Next Generation Soft Computing' is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, 'Evolutionary Networking and Communications' focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The

book will be of interest to all those working in the fields of intelligent systems and computer technology.

This book covers at an advanced level mathematical methods for analysis of telecommunication networks. The book concentrates on various call models used in telecommunications such as quality of service (QoS) in packet-switched Internet Protocol (IP) networks, Asynchronous Transfer Mode (ATM), and Time Division Multiplexing (TDM). Professionals, researchers, and graduate and advanced undergraduate students of telecommunications will benefit from this invaluable guidebook.

The book provides a comprehensive study of the subject covering basic as well as advanced concepts. Informal and simple in discussion, the text is designed without diluting the subject. Questions from leading university papers are solved supporting with necessary derivations. Features Conceptual explanation with problem solving approach. New and Revised Reinforcement problems. Completely Revised chapters on Network topology and Resonance. Easy New Techniques for conversion of two port parameters. Contents Circuit concepts and network simplification techniques Network topology Circuit Theorems Initial conditions in networks Laplace transforms Resonance Two port networks Independent Component Analysis (ICA) is a signal-processing method to extract

independent sources given only observed data that are mixtures of the unknown sources. Recently, Blind Source Separation (BSS) by ICA has received considerable attention because of its potential signal-processing applications such as speech enhancement systems, image processing, telecommunications, medical signal processing and several data mining issues. This book brings the state-of-the-art of some of the most important current research of ICA related to Audio and Biomedical signal processing applications. The book is partly a textbook and partly a monograph. It is a textbook because it gives a detailed introduction to ICA applications. It is simultaneously a monograph because it presents several new results, concepts and further developments, which are brought together and published in the book.

Cognitive Informatics, Computer Modelling, and Cognitive Science: Volume Two, Application to Neural Engineering, Robotics, and STEM presents the practical, real-world applications of Cognitive Science to help readers understand how it can help them in their research, engineering and academic pursuits. The book is presented in two volumes, covering Introduction and Theoretical Background, Philosophical and Psychological Theory, and Cognitive Informatics and Computing. Volume Two includes Statistics for Cognitive Science, Cognitive Applications and STEM Case Studies. Other sections cover Cognitive

Informatics, Computer Modeling and Cognitive Science: Application to Neural Engineering, Robotics, and STEM. The book's authors discuss the current status of research in the field of Cognitive Science, including cognitive language processing that paves the ways for developing numerous tools for helping physically challenged persons, and more.

This book collects the works presented at the 8th International Conference on Complex Networks (CompleNet) 2017 in Dubrovnik, Croatia, on March 21-24, 2017. CompleNet aims at bringing together researchers and practitioners working in areas related to complex networks. The past two decades has witnessed an exponential increase in the number of publications within this field. From biological systems to computer science, from economic to social systems, complex networks are becoming pervasive in many fields of science. It is this interdisciplinary nature of complex networks that CompleNet aims at addressing. The last decades have seen the emergence of complex networks as the language with which a wide range of complex phenomena in fields as diverse as physics, computer science, and medicine (to name a few) can be properly described and understood. This book provides a view of the state-of-the-art in this dynamic field and covers topics such as network controllability, social structure, online behavior, recommendation systems, and network structure.

This book discusses the issues and challenges in Online Social Networks (OSNs). It highlights various aspects of OSNs consisting of novel social network strategies and the development of services using different computing models. Moreover, the book investigates how OSNs are impacted by cutting-edge innovations.

Despite the Great Recession, slightly different forms of global capitalism are still portrayed as the only game in town by the vast majority of people in power in the world today. Unbridled growth, trade liberalisation, and competition are advocated as the only or best ways of organizing the contemporary world. Unemployment, yawning gaps between rich and poor, political disengagement, and environmental devastation are too often seen as acceptable 'side effects' of the dominance of neo-liberalism. But the reality is that capitalism has always been contested and that people have created many other ways of providing for themselves. This book explores economic and organizational possibilities which extend far beyond the narrow imagination of economists and management theorists. Chapters on co-operatives, community currencies, the transition movement, scrounging, co-housing and much more paints a rich picture of the ways in which another word is not only possible, but already taking shape. The aim of this companion is to move beyond complaining about the present and into exploring this diversity of organisational possibilities. Our starting point is a critical analysis of contemporary global capitalism is merely the opening for thinking about organizing as a form of politics by other means, and one that can be driven by

the values of solidarity, freedom and responsibility. This comprehensive companion with an international cast of contributors gives voice to forms of organizing which remain unrepresented or marginalised in organizational studies and conventional politics, yet which offer more promising grounds for social and environmental justice. It is a valuable resource for students, activists and researchers interested in alternative approaches to economy and society in a variety of disciplinary and interdisciplinary fields.

Human Resources Disrupted!. This book is a detailed analysis of what causes HR disruptions, in both positive and negative ways. It is about CEO and CHRO's role and their influence in building organizations or destroying value while struggling to understand digital business models, products, customers and high performing cultures. The book contains best practice examples of people disruptors, digital strategies for talent management, predictions, trends, HR functions going out of fashion, digital climate possibilities, Value based cultures, organizational design, HR tech elements, HR knowledge management, organization re roles and HR business model based structural options, detailed surveys, tests, methodologies on Talent Strategies etc. At the core Talent Rules!

This book constitutes the refereed proceedings of the 19th International Symposium on Automated Technology for Verification and Analysis, ATVA 2021, held in Gold Coast, Australia in October 2021. The symposium is dedicated to promoting research in

theoretical and practical aspects of automated analysis, verification and synthesis by providing an international venue for the researchers to present new results. The 19 regular papers presented together with 4 tool papers and 1 invited paper were carefully reviewed and selected from 75 submissions. The papers are divided into the following topical sub-headings: Automata Theory; Machine learning for Formal Methods; Theorem Proving and Tools; Model Checking; Probabilistic Analysis; Software and Hardware Verification; System Synthesis and Approximation; and Verification of Machine Learning.

The Connected City explores how thinking about networks helps make sense of modern cities: what they are, how they work, and where they are headed. Cities and urban life can be examined as networks, and these urban networks can be examined at many different levels. The book focuses on three levels of urban networks: micro, meso, and macro. These levels build upon one another, and require distinctive analytical approaches that make it possible to consider different types of questions. At one extreme, micro-urban networks focus on the networks that exist within cities, like the social relationships among neighbors that generate a sense of community and belonging. At the opposite extreme, macro-urban networks focus on networks between cities, like the web of nonstop airline flights that make face-to-face business meetings possible. This book contains three major sections organized by the level of analysis and scale of network. Throughout these sections, when a new methodological concept is

introduced, a separate 'method note' provides a brief and accessible introduction to the practical issues of using networks in research. What makes this book unique is that it synthesizes the insights and tools of the multiple scales of urban networks, and integrates the theory and method of network analysis.

The book entitled Modelling Forecasting Artificial Neural Network and Expert System in Fisheries and Aquaculture is the first of its kind avilable in the market. The book contains altogether sixteen chapter covering both capture and culture fisheries aspects contributed by various subject matter specialists engaged in research and development activities at various national institutes of repute. Each of the chapters has been specially written by an expert in the field bringing together in a single volume a range of approaches and reviews covering conceptual and mathematical model empirical and theoretical model deterministic and stochastic model biological model pond ecosystem model and explanatory models. Both linear as well as nonlinear models applied to fisheries and aquaculture research has been dealt with illustrated examples on current real fisheries data. Adequate attention has been given to select chapters that contain both theoretical as well as applied areas of research. Important chapters like statistical modelling and their application in fisheries quantitative methods in fish stock assessment time series modeling tropho dynamic modelling and forecasting of fish production by environment and species/groups have been added. Methods of multiobjective freshwater aquaculture model are altogether a new approach in

aquaculture research containing valuable information. Besides conventional methods latest developments on expert system simulation articial neural network fuzzy logic soft computing techniques in data analysis have been documented for the first time in India. Advanced econometric approach in productivity analysis has been demonstrated with a real field data identifying the role of socio-economic and farm specific management variables on technical efficiency of aquaculture farm. Finally the book provides a comprehensive account of recent developments in modelling and forecasting and also an insightful and authoritative overview of the broad umbrella of modelling and forecasting. Each and every chapter is important for researchers planners and those associated with development activities to cope with the most challenging task of providing food and nutritional security to the present population as well as to plan for supply of food to the future population of the country. Contents Chapter 1: Statistical Modelling in Fisheries Research: An Overview by Prajneshu; Chapter 2: Is Fisheries Sector in India Changing its Gear by Ganesh Kumar; Chapter 3: Non-Linear Models for Forecasting Fish Production from Ponds by Lalmohan Bhar; Chapter 4: Statistical Models and their Application in Fishery Science Research by R Venugopalan and Prajneshu; Chapter 5: Methods of Forecasting and their Application in Fishery Science by P K Sahu; Chapter 6: Modelling in Aquaculture by A K Roy; Chapter 7: Modelling of Multiobjective Freshwater Aquaculture by Pratap K J Mohapatra, Santosh K Prusty and C K Mukherjee; Chapter 8: A Revisit to Building up Models in Fishery Research by

Satyabrata Pal and Subhabaha Pal; Chapter 9: Quantitative Techniques for Fish Stock Assessment by R S Biradar; Chapter 10: Quantitative Techniques for Fish Stock Assessment by R S Biradar; Chapter 11: Tropho-Dynamic Modelling for Ecosystem Based Fisheries Management by Preetha Panikkar and M feroz Khan; Chapter 12: Forecasting of Fish Production of India by Culture Environment and Species by A K Roy and Nirupama Panda; Chapter 13: Expert Systems and Simulation Studies in Agriculture Aquaculture by J Panduranga Rao; Chapter 14: Recent Trends in Artifical Neural Network (ANN) and Fuzzy Logic and their Application in Aquaculture by M Balakrishnan and R C Srivastava; Chapter 15: Soft Computing Techniques for Data Analysis and Modelling in Fisheries by H C Verma; Chapter 16: An Econometric Model for Productivity Analysis of Aquaculture Farms by A K Roy, G S Saha, N Sarangi and Nibedita Jena

Computer software and technologies are advancing at an amazing rate. The accessibility of these software sources allows for a wider power among common users as well as rapid advancement in program development and operating information. Free and Open Source Software in Modern Data Science and Business Intelligence: Emerging Research and Opportunities is a critical scholarly resource that examines the differences between the two types of software, integral in the FOSS movement, and their effect on the distribution and use of software. Featuring coverage on a wide range of topics, such as FOSS Ecology, graph mining, and project tasks, this book is geared

towards academicians, researchers, and students interested in current research on the growing importance of FOSS and its expanding reach in IT infrastructure.

1. This book constitutes the refereed proceedings of the 4th Workshop on Document Analysis and Recognition, DAR 2018, held in Conjunction with ICVGIP 2018, in Hyderabad, India, in December 2018. The 12 revised full papers and 2 short papers presented were carefully reviewed and selected from 22 submissions. The papers are organized in topical sections: document layout analysis and understanding; handwriting recognition and symbol spotting; character and word segmentation; handwriting analysis; datasets and performance evaluation.

This textbook presents a unified treatment of theory, analysis and design of microwave devices and circuits. It is designed to address the needs of undergraduate students of electronics and communi-cation engineering for a course in microwave engineering as well as those of the students pursuing M.Sc. courses in electronics science. The main objective is to provide students with a thorough under-standing of microwave devices and circuits, and to acquaint them with some of the methods used in circuit analysis and design. Several types of planar transmission lines such as stripline, microstrip, slot line and a few other structures have been explained. The important concepts of scattering matrix and Smith chart related to design problems have been discussed in detail. The performance and geometry of microwave transistors-both bipolar and field effect-have been analysed. Microwave passive components such as couplers, power

dividers, attenuators, phase shifters and circulators have been comprehensively dealt with. Finally, the analysis and design aspects of microwave transistor amplifiers and oscillators are presented using the scattering parameters technique. Numerous solved problems and chapter-end questions are included for practice and reinforcement of the concepts.

Leverage the features and libraries of Python to administrate your environment efficiently. Key Features Learn how to solve problems of system administrators and automate routine activities Learn to handle regular expressions, network administration Building GUI, web-scraping and database administration including data analytics Book Description Python has evolved over time and extended its features in relation to every possible IT operation. Python is simple to learn, yet has powerful libraries that can be used to build powerful Python scripts for solving real-world problems and automating administrators' routine activities. The objective of this book is to walk through a series of projects that will teach readers Python scripting with each project. This book will initially cover Python installation and quickly revise basic to advanced programming fundamentals. The book will then focus on the development process as a whole, from setup to planning to building different tools. It will include IT administrators' routine activities (text processing, regular expressions, file archiving, and encryption), network administration (socket programming, email handling, the remote controlling of devices using telnet/ssh, and protocols such as SNMP/DHCP), building graphical user interface,

working with websites (Apache log file processing, SOAP and REST APIs communication, and web scraping), and database administration (MySQL and similar database data administration, data analytics, and reporting). By the end of this book, you will be able to use the latest features of Python and be able to build powerful tools that will solve challenging, real-world tasks What you will learn Understand how to install Python and debug Python scripts Understand and write scripts for automating testing and routine administrative activities Understand how to write scripts for text processing, encryption, decryption, and archiving Handle files, such as pdf, excel, csv, and txt files, and generate reports Write scripts for remote network administration, including handling emails Build interactive tools using a graphical user interface Handle Apache log files, SOAP and REST APIs communication Automate database administration and perform statistical analysis Who this book is for This book would be ideal for users with some basic understanding of Python programming and who are interested in scaling their programming skills to command line scripting and system administration. Prior knowledge of Python would be necessary.

Network Theory

This volume clarifies the meanings and applications of the concept of the transnational and identifies areas in which the concept can be particularly useful. The division of the volume into three parts reflects areas which seem particularly amenable to analysis through a transnational lens. The chapters in Part 1 present case studies in which the

concept replaces or complements traditionally dominant concepts in literary studies. These chapters demonstrate, for example, why some dramatic texts and performances can better be described as transnational than as postcolonial, and how the transnational underlies and complements concepts such as world literature. Part 2 assesses the advantages and limitations of writing literary history with a transnational focus. These chapters illustrate how such a perspective loosens the epistemic stranglehold of national historiographies, but they also argue that the transnational and national agendas of literary historiography are frequently entangled. The chapters in Part 3 identify transnational genres such as the transnational historical novel, transnational migrant fiction and translinguistic theatre, and analyse the specific poetics and politics of these genres.

This book offers a multidisciplinary resource on digital government, while specifically focusing on its role within the emerging market of India. The Government of India (GoI) is concentrating on transforming India under the Digital India initiative. In order to do so, it has emphasized three core areas: (1) Computing infrastructure as a utility to every citizen; (2) Governance and services on demand; and (3) Digital empowerment of citizens. The chapters in this book address issues surrounding these areas, highlighting concepts such as knowledge societies, urban operations and logistics, issues in managing emergent Information Communication Technologies (ICTs), and also smart analytics for urbanization. The chapters contribute to the theory, practice and policy for

a "Digital India." The book captures lessons, knowledge, experiences (about challenges, drivers, antecedents, etc.) and best practices emerging from implementation of various projects. While the book is dedicated to a "Digital India," this book can also be valuable resource for public administrators, government officials and researchers in other emerging markets and developing countries in Asia, Africa and Latin America where similar socio-political and economic conditions exist.

This contributed volume discusses diverse topics to demystify the rapidly emerging and evolving blockchain technology, the emergence of integrated platforms and hosted third-party tools, and the development of decentralized applications for various business domains. It presents various applications that are helpful for research scholars and scientists who are working toward identifying and pinpointing the potential of as well as the hindrances to this technology.

This book comprises select papers from the International Conference on Emerging Trends in Civil Engineering (ICETCE 2018). Latest research findings in different branches of civil engineering such as structural engineering, construction materials, geotechnical engineering, water resources engineering, environmental engineering, and transportation infrastructure are covered in this book. The book also gives an overview of emerging topics like smart materials and structures, green building technologies, and intelligent transportation system. The contents of this book will be beneficial for students, academicians, industrialists and researchers working in the field

of civil engineering.

This book constitues the refereed proceedings of the 6th International Workshop on Hybrid Systems: Computation and Control, HSCC 2003, held in Prague, Czech Republic, in April 2003. The 36 revised full papers presented were carefully reviewed and selected from 75 submissions. All current issues in hybrid systems are addressed including formal methods for analysis and control, computational tools, as well as innovative applications in various fields such as automotive control, the immune system, electrical circuits, operating systems, and human brains.

The 1992 Quincentennial of the encounter between the New World and the Old resulted in a veritable culture war- an extreme polarization of hardened ideological positions on different ideas of America. Monsters, Tricksters, and Sacred Cows brings a fresh perspective to the confusing question of American identity. It clears the minefields laid by the generals commanding the opposing camps, while demonstrating that both sides have been primarily interested in protecting and defending an idea of "Americanness" that cannot resist scrutiny. Some of the leading international scholars in anthropology, comparative literature, and history of the Americas show convincingly in this book that contacts between and among peoples and ethnic groups have, since early colonial times, produced new- and typically American- cultural forms throughout the hemisphere. Monsters, Tricksters, and Sacred Cows will appeal to the general reader and will attract a wide readership in folklore and cultural anthropology as well as

in Caribbean and Latin American studies, comparative literature, and history. An important aspect of wireless networks is the deployment of their infrastructure. In this book, the Editors have invited a number of experts from industry to write on a variety of topics associated with deployment of digital wireless networks. The first part of the book consists of an overview of systems design and engineering integration, comparison of polarization and space diversity antenna systems, and the performance of deploying smart antenna architectures in cellular and PCS networks. The second part addresses deployment of CDMA networks, based on IS-95 standards. Here the authors discuss issues related to optimization of overlaid dual model CDMA networks, embedding microcells to improve hot-spot capacity, and mitigation of intermodulation distortion in handsets. Part III deals with deployment of TDMA- based networks. The issues presented include developing hierarchical systems, reconfigurable transceivers, and deploying the GSM frequency hopping feature for enhancing existing traffic capacity. The last part, on Wireless Data Networks, is comprised of issues related to the performance of GPRS systems deployed as an upgrade on current networks and deployment of wireless LANs. Critical issues for deploying an IEEE 802.11-based WLAN are examined. Wireless Network Deployments provides practical engineering guidance for wireless and cellular engineers, researchers, technicians, and managers working in second and third generation digital wireless networks.
Reading is an integral part of life in today's information-driven societies. Since the

pioneering work of Dejerine on "word blindness" in brain-lesioned patients, the literature has increased exponentially, from neuropsychological case reports to mechanistic accounts of word processing at the behavioural, neurofunctional and computational levels, tapping into diverse aspects of visual word processing. These studies have revealed some exciting findings about visual word processing, including how the brain learns to read, how changes in literacy impact upon word processing strategies, and whether word processing mechanisms vary across different alphabetic, logographic or artificial writing systems. Other studies have attempted to characterise typical and atypical word processes in special populations in order to explain why dyslexic brains struggle with words, how multilingualism changes the way our brains see words, and what the exact developmental signatures are that would shape the acquisition of reading skills. Exciting new insights have also emerged from recent studies that have investigated word stimuli at the system/network level, by looking for instance, at how the reading system interacts with other cognitive systems in a context-dependent fashion, how visual language stimuli are integrated into the speech processing streams, how both left and right hemispheres cooperate and interact during word processing, and what the exact contributions of subcortical and cerebellar regions to reading are. The contributions to this Research Topic highlight the latest findings regarding the different issues mentioned above, particularly how these findings can explain or model the different processes, mechanisms, pathways or cognitive strategies

by which the human brain sees words. The introductory editorial, summarising the contributions included here, highlights how varieties of behavioural tests and neuroimaging techniques can be used to investigate word processing mechanisms across different alphabetic and logographic writing systems.

Blockchain technology allows value exchange without the need for a central authority and ensures trust powered by its decentralized architecture. As such, the growing use of the internet of things (IoT) and the rise of artificial intelligence (AI) are to be benefited immensely by this technology that can offer devices and applications data security, decentralization, accountability, and reliable authentication. Bringing together blockchain technology, AI, and IoT can allow these tools to complement the strengths and weaknesses of the others and make systems more efficient.

Multidisciplinary Functions of Blockchain Technology in AI and IoT Applications deliberates upon prospects of blockchain technology using AI and IoT devices in various application domains. This book contains a comprehensive collection of chapters on machine learning, IoT, and AI in areas that include security issues of IoT, farming, supply chain management, predictive analytics, and natural languages processing. While highlighting these areas, the book is ideally intended for IT industry professionals,

students of computer science and software engineering, computer scientists, practitioners, stakeholders, researchers, and academicians interested in updated and advanced research surrounding the functions of blockchain technology in AI and IoT applications across diverse fields of research.

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