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KEY=NETWORK - JACOB CALLAHAN

REINFORCEMENT LEARNING, SECOND EDITION

AN INTRODUCTION

MIT Press The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

NETWORK ANALYSIS AND SYNTHESIS

A MODERN SYSTEMS THEORY APPROACH

Courier Corporation This comprehensive look at linear network analysis and synthesis explores state-space synthesis as well as analysis, employing modern systems theory to unite classical concepts of network theory. 1973 edition.

SOCIAL NETWORK DATA ANALYTICS

Springer Science & Business Media Social network analysis applications have experienced tremendous advances within the last few years due in part to increasing trends towards users interacting with each other on the internet. Social networks are organized as graphs, and the data on social networks takes on the form of massive streams, which are mined for a variety of purposes. Social Network Data Analytics covers an important niche in the social network analytics field. This edited volume, contributed by prominent researchers in this field, presents a wide selection of topics on social network data mining such as Structural Properties of Social Networks, Algorithms for Structural Discovery of Social Networks and Content Analysis in Social Networks. This book is also unique in focussing on the data analytical aspects of social networks in the internet scenario, rather than the traditional sociology-driven emphasis prevalent in the existing books, which do not focus on the unique data-intensive characteristics of online social networks. Emphasis is placed on simplifying the content so that students and practitioners benefit from this book. This book targets advanced level students and researchers concentrating on computer science as a secondary text or reference book. Data mining, database, information security, electronic commerce and machine learning professionals will find this book a valuable asset, as well as primary associations such as ACM, IEEE and Management Science.

FUTURISTIC COMMUNICATION AND NETWORK TECHNOLOGIES

SELECT PROCEEDINGS OF VICFCNT 2020

Springer Nature This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.

PROCEEDINGS OF INTEGRATED INTELLIGENCE ENABLE NETWORKS AND COMPUTING

IIENC 2020

Springer Nature This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing (IIENC 2020), held from May 25 to May 27, 2020, at the Institute of Technology, Gopeshwar, India (Government Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University). The book includes papers in the field of intelligent computing. The book covers the areas of machine learning and robotics, signal processing and Internet of things, big data and renewable energy sources.

ADVANCES IN COMMUNICATION AND COMPUTATIONAL TECHNOLOGY

SELECT PROCEEDINGS OF ICACCT 2019

Springer Nature This book presents high-quality peer-reviewed papers from the International Conference on Advanced Communication and Computational Technology (ICACCT) 2019 held at the National Institute of Technology, Kurukshetra, India. The contents are broadly divided into four parts: (i) Advanced Computing, (ii) Communication and Networking, (iii) VLSI and Embedded Systems, and (iv) Optimization Techniques.The major focus is on emerging computing technologies and their applications in the domain of communication and networking. The book will prove useful for engineers and researchers working on physical, data link and transport layers of communication protocols. Also, this will be useful for industry professionals interested in manufacturing of communication devices, modems, routers etc. with enhanced computational and data handling capacities.

GLOBAL BUSINESS REGULATION

Cambridge University Press Across an amazing sweep of the critical areas of business regulation - from contract, intellectual property and corporations law, to trade, telecommunications, labour standards, drugs, food, transport and environment - this book confronts the question of how the regulation of business has shifted from national to global institutions. Based on interviews with 500 international leaders in business and government, this book examines the role played by global institutions such as the WTO, the OECD, IMF, Moody's and the World Bank, as well as various NGOs and significant individuals. The authors argue that effective and decent global regulation depends on the determination of individuals to engage with powerful agendas and decision-making bodies that would otherwise be dominated by concentrated economic interests. This book will become a standard reference for readers in business, law, politics and international relations.

NETWORKS OF OUTRAGE AND HOPE

SOCIAL MOVEMENTS IN THE INTERNET AGE

John Wiley & Sons Networks of Outrage and Hope is an exploration of the newforms of social movements and protests that are erupting in theworld today, from the Arab uprisings to the indignadas movement inSpain, from the Occupy Wall Street movement to the social protestsin Turkey, Brazil and elsewhere. While these and similar socialmovements differ in many important ways, there is one thing theyshare in common: they are all interwoven inextricably with thecreation of autonomous communication networks supported by theInternet and wireless communication. In this new edition of his timely and important book, ManuelCastells examines the social, cultural and political roots of thesenew social movements, studies their innovative forms ofself-organization, assesses the precise role of technology in thedynamics of the movements, suggests the reasons for the supportthey have found in large segments of society, and probes theircapacity to induce political change by influencing people'sminds. Two new chapters bring the analysis up-to-date and draw outthe implications of these social movements and protests forunderstanding the new forms of social change and politicaldemocracy in the global network society.

OMNIA SUNT COMMUNIA

ON THE COMMONS AND THE TRANSFORMATION TO POSTCAPITALISM

Bloomsbury Publishing In this weaving of radical political economy, Omnia Sunt Communia sets out the steps to postcapitalism. By conceptualising the commons not just as common goods but as a set of social systems, Massimo De Angelis shows their pervasive presence in everyday life, mapping out a strategy for total social transformation. From the micro to the macro, De Angelis unveils the commons as fields of power relations – shared space, objects, subjects – that explode the limits of daily life under capitalism. He exposes attempts to co-opt the commons, through the use of code words such as 'participation' and 'governance', and reveals the potential for radical transformation rooted in the reproduction of our communities, of life, of work and of society as a whole.

RECURRENT NEURAL NETWORKS

DESIGN AND APPLICATIONS

CRC Press With existent uses ranging from motion detection to music synthesis to financial forecasting, recurrent neural networks have generated widespread attention. The tremendous interest in these networks drives Recurrent Neural Networks: Design and Applications, a summary of the design, applications, current research, and challenges of this subfield of artificial neural networks. This overview incorporates every aspect of recurrent neural networks. It outlines the wide variety of complex learning techniques and associated research projects. Each chapter addresses architectures, from fully connected to partially connected, including recurrent multilayer feedforward. It presents problems involving trajectories, control systems, and robotics, as well as RNN use in chaotic systems. The authors also share their expert knowledge of ideas for alternate designs and advances in theoretical aspects. The dynamical behavior of recurrent neural networks is useful for solving problems in science, engineering, and business. This approach will yield huge advances in the coming years. Recurrent Neural Networks illuminates the opportunities and provides you with a broad view of the current events in this rich field.

MONTHLY CATALOG OF UNITED STATES GOVERNMENT PUBLICATIONS

ENGINEERING

ISSUES, CHALLENGES AND OPPORTUNITIES FOR DEVELOPMENT

UNESCO This report reviews engineering's importance to human, economic, social and cultural development and in addressing the UN Millennium Development Goals. Engineering tends to be viewed as a national issue, but engineering knowledge, companies, conferences and journals, all demonstrate that it is as international as science. The report reviews the role of engineering in development, and covers issues including poverty reduction, sustainable development, climate change mitigation and adaptation. It presents the various fields of engineering around the world and is intended to identify issues and challenges facing engineering, promote better understanding of engineering and its role, and highlight ways of making engineering more attractive to young people, especially women.-- Publisher's description.

CONTROL THEORY AND SYSTEMS BIOLOGY

MIT Press A survey of how engineering techniques from control and systems theory can be used tohelp biologists understand the behavior of cellular systems.

INTRODUCTION TO DIGITAL SPEECH PROCESSING

Now Publishers Inc Introduction to Digital Speech Processing highlights the central role of DSP techniques in modern speech communication research and applications. It presents a comprehensive overview of digital speech processing that ranges from the basic nature of the speech signal, through a variety of methods of representing speech in digital form, to applications in voice communication and automatic synthesis and recognition of speech. Introduction to Digital Speech Processing provides the reader with a practical introduction to the wide range of important concepts that comprise the field of digital speech processing. It serves as an invaluable reference for students embarking on speech research as well as the experienced researcher already working in the field, who can utilize the book as a reference guide.

EARLY CHILDHOOD ASSESSMENT

WHY, WHAT, AND HOW

National Academies Press The assessment of young children's development and learning has recently taken on new importance. Private and government organizations are developing programs to enhance the school readiness of all young children, especially children from economically disadvantaged homes and communities and children with special needs. Well-planned and effective assessment can inform teaching and program improvement, and contribute to better outcomes for children. This book affirms that assessments can make crucial contributions to the improvement of children's well-being, but only if they are well designed, implemented effectively, developed in the context of systematic planning, and are interpreted and used appropriately. Otherwise, assessment of children and programs can have negative consequences for both. The value of assessments therefore requires fundamental attention to their purpose and the design of the larger systems in which they are used. Early Childhood Assessment addresses these issues by identifying the important outcomes for children from birth to age 5 and the quality and purposes of different techniques and instruments for developmental assessments.

TO LIFE!

ECO ART IN PURSUIT OF A SUSTAINABLE PLANET

Univ of California Press This title documents the burgeoning eco art movement from A to Z, presenting a panorama of artistic responses to environmental concerns, from Ant Farms anti-consumer antics in the 1970s to Marina Zurkows 2007 animation that anticipates the havoc wreaked upon the planet by global warming.

MERCHANTS OF DOUBT

HOW A HANDFUL OF SCIENTISTS OBSCURED THE TRUTH ON ISSUES FROM TOBACCO SMOKE TO GLOBAL WARMING

A&C Black The U.S. scientific community has long led the world in research on such areas as public health, environmental science, and issues affecting quality of life. These scientists have produced landmark studies on the dangers of DDT, tobacco smoke, acid rain, and global warming. But at the same time, a small yet potent subset of this community leads the world in vehement denial of these dangers. Merchants of Doubt tells the story of how a loose-knit group of high-level scientists and scientific advisers, with deep connections in politics and industry, ran effective campaigns to mislead the public and deny well-established scientific knowledge over four decades. Remarkably, the same individuals surface repeatedly-some of the same figures who have claimed that the science of global warming is "not settled" denied the truth of studies linking smoking to lung cancer, coal smoke to acid rain, and CFCs to the ozone hole. "Doubt is our product," wrote one tobacco executive. These "experts" supplied it. Naomi Oreskes and Erik M. Conway, historians of science, roll back the rug on this dark corner of the American scientific community, showing how ideology and corporate interests, aided by a too-compliant media, have skewed public understanding of some of the most pressing issues of our era.

NEURAL NETWORK DESIGN

SENSORS FOR HEALTH MONITORING

Academic Press Sensors for Health Monitoring discusses the characteristics of U-Healthcare systems in different domains, providing a foundation for working professionals and undergraduate and postgraduate students. The book provides information and advice on how to choose the best sensors for a U-Healthcare system, advises and guides readers on how to overcome challenges relating to data acquisition and signal processing, and presents comprehensive coverage of up-to-date requirements in hardware, communication and calculation for next-generation uHealth systems. It then compares new technological and technical trends and discusses how they address expected u-Health requirements. In addition, detailed information on system operations is presented and challenges in ubiquitous computing are highlighted. The book not only helps beginners with a holistic approach toward understanding u-Health systems, but also presents researchers with the technological trends and design challenges they may face when designing such systems. Presents an outstanding update on the use of U-Health data analysis and management tools in different applications, highlighting sensor systems Highlights Internet of Things enabled U-Healthcare Covers different data transmission techniques, applications and challenges with extensive case studies for U-Healthcare systems

HYPERCRIME

THE NEW GEOMETRY OF HARM

Routledge Hypercrime develops a new theoretical approach toward current reformulations in criminal behaviours, in particular the phenomenon of cybercrime. Emphasizing a spatialized conception of deviance, one that clarifies the continuities between crime in the traditional, physical context and developing spaces of interaction such as a 'cyberspace', this book analyzes criminal behaviours in terms of the destructions, degradations or incursions to a hierarchy of regions that define our social world. Each chapter outlines violations to the boundaries of each of these spaces - from those defined by our bodies or our property, to the more subtle borders of the local and global spaces we inhabit. By treating cybercrime as but one instance of various possible criminal virtualities, the book develops a general theoretical framework, as equally applicable to the, as yet unrealized, technologies of criminal behaviour of the next century, as it is to those which relate to contemporary computer networks. Cybercrime is thereby conceptualized as one of a variety of geometries of harm, merely the latest of many that have extended opportunities for illicit gain in the physical world. Hypercrime offers a radical critique of the narrow conceptions of cybercrime offered by current justice systems and challenges the governing presumptions about the nature of the threat posed by it. Runner-up for the British Society of Criminology Book Prize (2008).

GLOBALIZATION OF MANAGEMENT EDUCATION

CHANGING INTERNATIONAL STRUCTURES, ADAPTIVE STRATEGIES, AND THE IMPACT ON INSTITUTIONS : REPORT OF THE AACSB INTERNATIONAL GLOBALIZATION OF MANAGEMENT EDUCATION TASK FORCE

Emerald Group Publishing Rarely, if ever, have business schools experienced change as far-reaching and powerful as during the current wave of globalization. Understanding these changes, and their implications, was the charge given to an AACSB Task Force on Globalization of Management Education. In this comprehensive report, the Task Force explores broad globalization trends in management education that command the attention of any individual or institution striving to navigate in today's environment. Then, by exploring individual business school strategies, it provides valuable insights into how business schools can and should respond. The report aims to encourage and guide business schools to embrace globalization in ways that are mission-appropriate, manageable given available

resources, and meaningful to the stakeholders being served. For organizations serving business schools, it will be a catalyst for action that elevates and improves business schools' capabilities. Readers will be left with the conviction that great opportunities exist for business schools to move from keeping pace with the sweeping changes of globalization, to leading the way.

NETWORK ANALYSIS

THE FUTURE INTERNET

FUTURE INTERNET ASSEMBLY 2011: ACHIEVEMENTS AND TECHNOLOGICAL PROMISES

Springer Irrespective of whether we use economic or societal metrics, the Internet is one of the most important technical infrastructures in existence today. It will be a catalyst for much of our innovation and prosperity in the future. A competitive Europe will require Internet connectivity and services beyond the capabilities offered by current technologies. Future Internet research is therefore a must. This book is published in full compliance with the Open Access publishing initiative; it is based on the research carried out within the Future Internet Assembly (FIA). It contains a sample of representative results from the recent FIA meetings spanning a broad range of topics, all being of crucial importance for the future Internet. The book includes 32 contributions and has been structured into the following sections, each of which is preceded by a short introduction: Foundations: architectural issues; socio-economic issues; security and trust; and experiments and experimental design. Future Internet Areas: networks, services, and content; and applications.

EXPERT CLOUDS AND APPLICATIONS

PROCEEDINGS OF ICOECA 2021

Springer Nature This book features original papers from International Conference on Expert Clouds and Applications (ICOECA 2021), organized by GITAM School of Technology, Bangalore, India during February 18–19, 2021. It covers new research insights on artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and artificial intelligence technologies.

ACUTE HEART FAILURE

Springer Science & Business Media For many years, there has been a great deal of work done on chronic congestive heart failure while acute heart failure has been considered a difficult to handle and hopeless syndrome. However, in recent years acute heart failure has become a growing area of study and this is the first book to cover extensively the diagnosis and management of this complex condition. The book reflects the considerable amounts of new data reported and many new concepts which have been proposed in the last 3-4 years looking at the epidemiology, diagnostic and treatment of acute heart failure.

TOWARDS SUSTAINABLE SOCIETY ON UBIQUITOUS NETWORKS

THE 8TH IFIP CONFERENCE ON E-BUSINESS, E-SERVICES, AND E-SOCIETY (I3E 2008), SEPTEMBER 24 - 26, 2008, TOKYO, JAPAN

Springer The massive growth of the Internet has made an enormous amount of infor- tion available to us. However, it is becoming very difficult for users to acquire an - plicable one. Therefore, some techniques such as information filtering have been - troduced to address this issue. Recommender systems filter information that is useful to a user from a large amount of information. Many e-commerce sites use rec- mender systems to filter specific information that users want out of an overload of - formation [2]. For example, Amazon. com is a good example of the success of - commender systems [1]. Over the past several years, a considerable amount of research has been conducted on recommendation systems. In general, the usefulness of the recommendation is measured based on its accuracy [3]. Although a high - commendation accuracy can indicate a user's favorite items, there is a fault in that - ly similar items will be recommended. Several studies have reported that users might not be satisfied with a recommendation even though it exhibits high recommendation accuracy [4]. For this reason, we consider that a recommendation having only accuracy is - satisfactory. The serendipity of a recommendation is an important element when c- sidering a user's long-term profits. A recommendation that brings serendipity to users would solve the problem of "user weariness" and would lead to exploitation of users' tastes. The viewpoint of the diversity of the recommendation as well as its accuracy should be required for future recommender systems.

ELECTROMAGNETICS AND NETWORK THEORY AND THEIR MICROWAVE TECHNOLOGY APPLICATIONS

A TRIBUTE TO PETER RUSSER

Springer Science & Business Media This volume provides a discussion of the challenges and perspectives of electromagnetics and network theory and their microwave applications in all aspects. It collects the most interesting contribution of the symposium dedicated to Professor Peter Russer held in October 2009 in Munich.

SUSTAINABLE ENERGY--WITHOUT THE HOT AIR

Uit Cambridge Limited Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.

THZ COMMUNICATIONS

PAVING THE WAY TOWARDS WIRELESS TBPS

Springer Nature This book describes the fundamentals of THz communications, spanning the whole range of applications, propagation and channel models, RF transceiver technology, antennas, baseband techniques, and networking interfaces. The requested data rate in wireless communications will soon reach from 100 Gbit/s up to 1 Tbps necessitating systems with ultra-high bandwidths of several 10s of GHz which are available only above 200 GHz. In the last decade, research at these frequency bands has made significant progress, enabling mature experimental demonstrations of so-called THz communications, which are thus expected to play a vital role in future wireless networks. In addition to chapters by leading experts on the theory, modeling, and implementation of THz communication technology, the book also features the latest experimental results and addresses standardization and regulatory aspects. This book will be of interest to both academic researchers and engineers in the telecommunications industry.

PROCEEDINGS OF SIXTH INTERNATIONAL CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGY

ICICT 2021, LONDON, VOLUME 3

Springer Nature This book gathers selected high-quality research papers presented at the Sixth International Congress on Information and Communication Technology, held at Brunel University, London, on February 25–26, 2021. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The book is presented in four volumes.

THE CYBERNETICS MOMENT

OR WHY WE CALL OUR AGE THE INFORMATION AGE

JHU Press Cybernetics—the science of communication and control as it applies to machines and to humans—originates from efforts during World War II to build automatic anti-aircraft systems. Following the war, this science extended beyond military needs to examine all systems that rely on information and feedback, from the level of the cell to that of society. In The Cybernetics Moment, Ronald R. Kline, a senior historian of technology, examines the intellectual and cultural history of cybernetics and information theory, whose language of "information," "feedback," and "control" transformed the idiom of the sciences, hastened the development of information technologies, and laid the conceptual foundation for what we now call the Information Age. Kline argues that, for about twenty years after 1950, the growth of cybernetics and information theory and ever-more-powerful computers produced a utopian information narrative—an enthusiasm for information science that influenced natural scientists, social scientists, engineers, humanists, policymakers, public intellectuals, and journalists, all of whom struggled to come to grips with new relationships between humans and intelligent machines. Kline traces the relationship between the invention of computers and communication systems and the rise, decline, and transformation of cybernetics by analyzing the lives and work of such notables as Norbert Wiener, Claude Shannon, Warren McCulloch, Margaret Mead, Gregory Bateson, and Herbert Simon. Ultimately, he reveals the crucial role played by the cybernetics moment—when cybernetics and information theory were seen as universal sciences—in setting the stage for our current preoccupation with information technologies.

KEY THEMES IN HEALTH AND SOCIAL CARE

A COMPANION TO LEARNING

Routledge Key Themes in Health and Social Care is a learning resource for students in health and social care. It provides an overview of foundational issues and core themes in the field and introduces key areas of debate, moving from an introductory level to in-depth discussion as the book progresses. Divided into three parts: the first part sets the scene, addressing introductory psychology and sociology, social policy, equality and diversity, skills for practice, and working with people the second part considers key themes such as the contribution of philosophy and politics; criminal justice; management of services; the relationship between place and wellbeing; research in health and social care; theories of counselling; housing and the built environment the third part looks at discrete areas of practice such as mental health; substance abuse, protection work; health promotion; disability studies; working with men; child welfare and public responsibility. Each chapter begins with an outline of the content and learning outcomes and includes reflective exercises to allow students to reflect on what they have read, review their learning and consolidate their understanding. Time-pressed readers wanting to 'dip into' the book for relevant areas can do so but, read from cover to cover, the book provides a comprehensive introduction to the key areas of contemporary health and social care practice. It will be particularly helpful for students undertaking health and social care undergraduate and foundation degrees.

DEEP BIOMETRICS

Springer Nature This book highlights new advances in biometrics using deep learning toward deeper and wider background, deeming it "Deep Biometrics". The book aims to highlight recent developments in biometrics using semi-supervised and unsupervised methods such as Deep Neural Networks, Deep Stacked Autoencoder, Convolutional Neural Networks, Generative Adversary Networks, and so on. The contributors demonstrate the power of deep learning techniques in the emerging new areas such as privacy and security issues, cancellable biometrics, soft biometrics, smart cities, big biometric data, biometric banking, medical biometrics, healthcare biometrics, and biometric genetics, etc. The goal of this volume is to summarize the recent advances in using Deep Learning in the area of biometric security and privacy toward deeper and wider applications. Highlights the impact of deep learning over the field of biometrics in a wide area; Exploits the deeper and wider background of biometrics, such as privacy versus security, biometric big data, biometric genetics, and biometric diagnosis, etc.; Introduces new biometric applications such as biometric banking, internet of things, cloud computing, and medical biometrics.

TEXT, SPEECH AND DIALOGUE

15TH INTERNATIONAL CONFERENCE, TSD 2012, BRNO, CZECH REPUBLIC, SEPTEMBER 3-7, 2012, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 15th International Conference on Text, Speech and Dialogue, TSD 2012, held in Brno, Czech Republic, in September 2012. The 82 papers presented together with 2 invited talks were carefully reviewed and selected from 173 submissions. The papers are organized in topical sections on corpora and language resources, speech recognition, tagging, classification and parsing of text and speech, speech and spoken language generation, semantic processing of text and speech, integrating applications of text and speech processing, machine translation, automatic dialogue systems, multimodal techniques and modeling.

THE POWER OF PLAY IN HIGHER EDUCATION

CREATIVITY IN TERTIARY LEARNING

Springer This book examines the increasing popularity of creativity and play in tertiary learning, and how it can be harnessed to enhance the student experience at university. While play is often misunderstood as something 'trivial' and associated with early years education, the editors and contributors argue that play contributes to social and human development and relations at a fundamental level. This volume invalidates the commonly held assumption that play is only for children, drawing together numerous case studies from higher education that demonstrate how researchers, students and managers can benefit from play as a means of liberating thought, overturning obstacles and discovering fresh approaches to persistent challenges. This diverse and wide-ranging edited collection unites play theory and practice to address the gulf in research on this fascinating topic. It will be of interest and value to educators, students and scholars of play and creativity, as well as practitioners and academic leaders looking to incorporate play into the curriculum.

MARITIME LOGISTICS

A GUIDE TO CONTEMPORARY SHIPPING AND PORT MANAGEMENT

Kogan Page Publishers Globalisation and the rapid increase in world trade in the past decade have contributed to greater demand for international transport and logistics and, consequently, the expansion of the maritime industry. The dramatic changes in the mode of world trade and cargo transportation make it more important than ever to have a clear understanding of the way in which freight is transported by sea and the role of ports in this exchange. At the cutting edge in its assessment of the industry, Maritime Logistics covers the whole scope of maritime logistics and examines latest logistical developments within the port and shipping industry. With a range of new international contributors, this new edition has been thoroughly revised and updated. There are new chapters on port centric logistics, hinterland logistics and global supply chains, maritime transport and logistics as a trade facilitator, and future trends and developments. Written by a team of international experts with over fifty years' experience in the field, Maritime Logistics provides a truly global perspective. The book covers everything that students of logistics, as well as those working within the industry, need to know about maritime logistics, including shipping lines, containers, tankers, dry bulk, port-centric logistics, and much more.

BASIC ENGINEERING CIRCUIT ANALYSIS

CHALLENGES IN CYBERSECURITY AND PRIVACY

THE EUROPEAN RESEARCH LANDSCAPE

Cybersecurity and Privacy issues are becoming an important barrier for a trusted and dependable global digital society development.In this context, new holistic approaches, methodologies, techniques and tools are needed to cope with those issues, and mitigate cyberattacks

NATIONAL EDUCATIONAL TECHNOLOGY STANDARDS FOR TEACHERS

PREPARING TEACHERS TO USE TECHNOLOGY

ISTE (Interntl Soc Tech Educ Provides information for teachers on how to integrate technology into their lessons.

RF CIRCUIT DESIGN

THEORY AND APPLICATIONS

For upper-level Electrical Engineering introductory courses in RF Circuit Design and analog integratedcircuits.This practical and comprehensive book introduces RF circuit design fundamentals with an emphasis on design methodologies. * Provides MATLAB routines to carry out simple transmission line computations and allow the graphical display of the resulting impedance behaviors as part of the Smith Chart. * Allows students to implement these software tools on their own PC. All m-files will be included on a bound in CD-ROM. * Presents RF Amplifier Designs, including small and large signal designs, narrow versus broad band, low noise, and many others. * Provides students with useful broad-based knowledge of common amplifier designs used in the industry. * Discusses Matching Networks, such as T and P matching networks and single and double stub matching. It also includes Discrete and Microstrip Line matching techniques with computer simulations...* Presents Scattering parameterssuch as realistic listings of S-parameters for transistors and transmission line. * Highlights practical use of S-parameters in circuit design and performance evaluation. resistor, capacitor, and inductor networks. It also includes simulations in MATLAB to provide graphical display of circuit behavior and performance analysis. * Introduces the Smith Chart as a design tool to monitor electric behavior of circuits. * Introduces the generic forms of Oscillators and Mixers, including negative resistance condition, fixed-frequency, and YIG-tuned designs. * Explains the most common oscillator designs used in many RF systems. * Provides an overview of common filter types, including low, high, bandpass, Butterworth, and Chebyshev filters. * Provides design tools to enable students to develop a host of practically realizable filters. * Discusses the high-frequency behavior of common circuit components, including the behavior of resistors, capacitors, and inductors. * Helps students understand the difference of low versus high frequency responses. * Introduces the theory of distributed parameters through a discussion on Transmission Lines. This includes line parameters, sources and load terminations, and voltage and current waves. circuits. * Analyzes active/passive RF circuits through various network description models, especially the two-port network. This discussion also covers impedance, admittance, ABCD, h-parameter networks, and interrelations. * Includes a number of important pedagogical features--Intersperses examples throughout each chapter, and includes self-written MATLAB routines and circuit simulations by a commercial RF software package. * Assists students by clarifying and explaining the theoretical developments.