

Passive Optical Networks Flattening The Last Mile Access Ieee Comsoc Pocket Guides To Communications Technologies

High Performance Datacenter Networks Passive and Active Network Measurement Designing Network On-Chip Architectures in the Nanoscale Era e-Technologies and Networks for Development **Multilayer Social Networks** **The Architecture of Convnets and Data Processing.** **Advantages of Convolutional Neural Networks** **Network and Parallel Computing** **The Social Media Age** The SAGE Handbook of Social Studies in Health and Medicine **Deep Learning for Computer Vision** **Communities and Networks in the Ancient Greek World** **Supervised Machine Learning for Text Analysis in R** *Smart Cyber Physical Systems* **Collaborative Computing: Networking, Applications and Worksharing** **Intelligent Communication Technologies and Virtual Mobile Networks** **Securing Social Networks in Cyberspace** Loudspeakers *Mathematical Technology of Networks* **Neural Networks: Tricks of the Trade** *First International Conference on Optical Communications and Networks (ICOON 2002)* **Perspectives from Europe and Asia on Engineering Design and Manufacture** **IBM SONAS Best Practices** Probabilistic Networks and Expert Systems Mobile Ad-hoc and Sensor Networks Deep Learning for Time Series Forecasting Software Defined Mobile Networks (SDMN) Introduction to Autonomous

Robots **Materiality and the Study of Religion** Interior, Environment, and Related Agencies Appropriations for 2008: Justification of the budget estimates: USGS, MMS, Bureau of Indian Affairs **Complex Networks & Their Applications VI** **Supply Chain Architecture** Deep Learning Assembling Consumption **Python Machine Learning** **The Undersea Network** *Advances in Machine Learning and Computational Intelligence* **Fascia: The Tensional Network of the Human Body - E-Book** Handbook of Cities and Networks Pattern Recognition and Artificial Intelligence **Greater Than the Sum**

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Technologies what you similar to to read!

Probabilistic Networks and Expert Systems Dec 13 2020

The work reviewed in this book represents the synthesis of two important developments in modelling of complex stochastic phenomena. The book gives a thorough and rigorous mathematical treatment of the underlying ideas, structures, and algorithms.

Introduction to Autonomous Robots Aug 09 2020 A

comprehensive introduction to the field of autonomous robotics aimed at upper-level undergraduates and offering additional online resources. Textbooks that provide a broad algorithmic perspective on the mechanics and dynamics of robots almost unfailingly serve students at the graduate level. Introduction to Autonomous Robots offers a much-needed resource for teaching third- and fourth-year undergraduates the computational fundamentals

behind the design and control of autonomous robots. The authors use a class-tested and accessible approach to present progressive, step-by-step development concepts, alongside a wide range of real-world examples and fundamental concepts in mechanisms, sensing and actuation, computation, and uncertainty. Throughout, the authors balance the impact of hardware (mechanism, sensor, actuator) and software (algorithms) in teaching robot autonomy. Features: Rigorous and tested in the classroom Written for engineering and computer science undergraduates with a sophomore-level understanding of linear algebra, probability theory, trigonometry, and statistics QR codes in the text guide readers to online lecture videos and animations Topics include: basic concepts in robotic mechanisms like locomotion and grasping, plus the resulting forces; operation

principles of sensors and actuators; basic algorithms for vision and feature detection; an introduction to artificial neural networks, including convolutional and recurrent variants Extensive appendices focus on project-based curricula, pertinent areas of mathematics, backpropagation, writing a research paper, and other topics A growing library of exercises in an open-source, platform-independent simulation (Webots)

Multilayer Social Networks

Jun 30 2022 This book unifies and consolidates methods for analyzing multilayer networks arising from the social and physical sciences and computing.

The Architecture of Convnets and Data Processing. Advantages of Convolutional Neural Networks

May 30 2022 Essay from the year 2020 in the subject Mathematics - Miscellaneous, grade: 1,3, University of Ulm, language: English, abstract: In the past two decades in particular, artificial neural networks have

led to new approaches and processes in machine learning in many areas. They have replaced many existing processes. In some areas, they even exceed human performance. Impressive progress has been made in the area of image recognition and classification. Above all, this includes the introduction of convolutional neural networks (ConvNets). They belong to the class of neural networks. The first ConvNet was developed by LeCun et al. in 1989. ConvNets were especially developed to enhance image processing. Therefore, they provide a unique architecture. Due to their structure and functionality, ConvNets are particularly well suited within this field of application compared to other methods. **Securing Social Networks in Cyberspace** Jul 20 2021 This book collates the key security and privacy concerns faced by individuals and organizations who use various social networking sites. This includes activities such as connecting with friends, colleagues, and

family; sharing and posting information; managing audio, video, and photos; and all other aspects of using social media sites both professionally and personally. In the setting of the Internet of Things (IoT) that can connect millions of devices at any one time, the security of such actions is paramount. Securing Social Networks in Cyberspace discusses user privacy and trust, location privacy, protecting children, managing multimedia content, cyberbullying, and much more. Current state-of-the-art defense mechanisms that can bring long-term solutions to tackling these threats are considered in the book. This book can be used as a reference for an easy understanding of complex cybersecurity issues in social networking platforms and services. It is beneficial for academicians and graduate-level researchers. General readers may find it beneficial in protecting their social-media-related profiles.

Fascia: The Tensional Network of the Human Body
- **E-Book** Sep 29 2019 The role

of the fascia in musculoskeletal conditions and as a body-wide communication system is now well established. Fascia: The Tensional Network of the Human Body constitutes the most comprehensive foundational textbook available that also provides the latest research theory and science around fascia and their function. This book is unique in offering consensus from scientists and clinicians from across the world and brings together the work of the group behind the international Fascia Research Congress. It is ideal for advanced sports physiotherapists /physical therapists, musculoskeletal/orthopaedic medicine practitioners, as well as all professionals with an interest in fascia and human movement. The comprehensive contents lay the foundations of understanding about fascia, covering current scientific understanding of physiology and anatomy, fascial-related disorders and associated therapies, and recently developed research techniques.

Full colour illustrations clearly show fascia in context New content based on latest research evidence Critical evaluation of fascia-oriented therapies by internationally trusted experts Chapter outlines, key points and summary features to aid navigation Accompanying e-book version include instructional videos created by clinicians

High Performance Datacenter Networks Nov 04 2022

Datacenter networks provide the communication substrate for large parallel computer systems that form the ecosystem for high performance computing (HPC) systems and modern Internet applications. The design of new datacenter networks is motivated by an array of applications ranging from communication intensive climatology, complex material simulations and molecular dynamics to such Internet applications as Web search, language translation, collaborative Internet applications, streaming video

and voice-over-IP. For both Supercomputing and Cloud Computing the network enables distributed applications to communicate and interoperate in an orchestrated and efficient way. This book describes the design and engineering tradeoffs of datacenter networks. It describes interconnection networks from topology and network architecture to routing algorithms, and presents opportunities for taking advantage of the emerging technology trends that are influencing router microarchitecture. With the emergence of "many-core" processor chips, it is evident that we will also need "many-port" routing chips to provide a bandwidth-rich network to avoid the performance limiting effects of Amdahl's Law. We provide an overview of conventional topologies and their routing algorithms and show how technology, signaling rates and cost-effective optics are motivating new network topologies that scale up to millions of hosts.

The book also provides detailed case studies of two high performance parallel computer systems and their networks.

Table of Contents: Introduction / Background / Topology Basics / High-Radix Topologies / Routing / Scalable Switch Microarchitecture / System Packaging / Case Studies / Closing Remarks

The Undersea Network Dec 01 2019 In our "wireless" world it is easy to take the importance of the undersea cable systems for granted, but the stakes of their successful operation are huge, as they are responsible for carrying almost all transoceanic Internet traffic. In *The Undersea Network* Nicole Starosielski follows these cables from the ocean depths to their landing zones on the sandy beaches of the South Pacific, bringing them to the surface of media scholarship and making visible the materiality of the wired network. In doing so, she charts the cable network's cultural, historical, geographic and environmental dimensions. Starosielski argues that the

environments the cables occupy are historical and political realms, where the network and the connections it enables are made possible by the deliberate negotiation and manipulation of technology, culture, politics and geography. Accompanying the book is an interactive digital mapping project, where readers can trace cable routes, view photographs and archival materials, and read stories about the island cable hubs.

[Interior, Environment, and Related Agencies Appropriations for 2008: Justification of the budget estimates: USGS, MMS, Bureau of Indian Affairs](#) Jun 06 2020

Supervised Machine Learning for Text Analysis in R Nov 23 2021 Text data is important for many domains, from healthcare to marketing to the digital humanities, but specialized approaches are necessary to create features for machine learning from language. *Supervised Machine Learning for Text Analysis in R* explains how to preprocess text

data for modeling, train models, and evaluate model performance using tools from the tidyverse and tidymodels ecosystem. Models like these can be used to make predictions for new observations, to understand what natural language features or characteristics contribute to differences in the output, and more. If you are already familiar with the basics of predictive modeling, use the comprehensive, detailed examples in this book to extend your skills to the domain of natural language processing. This book provides practical guidance and directly applicable knowledge for data scientists and analysts who want to integrate unstructured text data into their modeling pipelines. Learn how to use text data for both regression and classification tasks, and how to apply more straightforward algorithms like regularized regression or support vector machines as well as deep learning approaches. Natural language must be dramatically

transformed to be ready for computation, so we explore typical text preprocessing and feature engineering steps like tokenization and word embeddings from the ground up. These steps influence model results in ways we can measure, both in terms of model metrics and other tangible consequences such as how fair or appropriate model results are.

IBM SONAS Best Practices

Jan 14 2021 As IBM® Scale Out Network Attached Storage (SONAS) is adopted, it is important to provide information about planning, installation, and daily administration. This IBM Redbooks® publication also describes leading tuning practices information gained by those who implement and support SONAS. These preferred practices are based on hands-on experience from the field. Monitoring of the SONAS system is included. This IBM Redbooks publication provides information about IBM SONAS features and function at the 1.5.1 level. This

book is the companion to the IBM SONAS Implementation Guide, SG24-7962 IBM Redbooks publication. It is intended for readers who have implemented SONAS and are responsible for daily administration and monitoring.

Perspectives from Europe and Asia on Engineering Design and Manufacture Feb 12 2021 This book will be the first proceedings of a series of symposia on the exchange of best practices and research in engineering design and manufacture organized focusing on Europe and Asia by a group of researchers from European and Asian Universities working on several EU funded projects. This very first book will explore the difference and communalities of European and Asian research and practice in this very important field. With the rapid economic expansion of Asia and the gradual shift of manufacturing from Europe and the USA to Asia, this Symposium will provide a timely forum for leading researchers in the field to

exchange their research findings and experience. The book covers this first symposium, and aims to give insights to these on-going changes, shows their implications from design and manufacture perspective for both Europe and Asia and identifies new research topics to improve industrial practice. The primary audience of this book are researchers in the field of engineering design and manufacture, industrialists and business persons who are interested in finding out the state of design and manufacture in Asia and Europe.

Mathematical Technology of Networks May 18 2021

Dynamical models on graphs or random graphs are increasingly used in applied sciences as mathematical tools to study complex systems whose exact structure is too complicated to be known in detail. Besides its importance in applied sciences, the field is increasingly attracting the interest of mathematicians and theoretical physicists also

because of the fundamental phenomena (synchronization, phase transitions etc.) that can be studied in the relatively simple framework of dynamical models of random graphs. This volume was developed from the Mathematical Technology of Networks conference held in Bielefeld, Germany in December 2013. The conference was designed to bring together functional analysts, mathematical physicists, and experts in dynamical systems. The contributors to this volume explore the interplay between theoretical and applied aspects of discrete and continuous graphs. Their work helps to close the gap between different avenues of research on graphs, including metric graphs and ramified structures.

First International Conference on Optical Communications and Networks (ICOON 2002)

Mar 16 2021 Optical communications networks are becoming increasingly important as there is demand for high capacity links. Dense wavelength division

multiplexing (DWDM) is widely deployed at the core networks to accommodate high capacity transport systems. Optical components such as optical amplifiers, tunable filters, transceivers, termination devices and add-drop multiplexers are becoming more reliable and affordable. Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges. New components and subsystems for very high speed optical networks offer new design options. The proceedings of the First International Conference on Optical Communications and Networks present high quality recent research results in the areas of optical communications, network components, architectures, protocols, planning, design, management and operation.

[Handbook of Cities and Networks](#) Aug 28 2019 This Handbook of Cities and Networks provides a cutting-edge overview of research on

how economic, social and transportation networks affect processes both in and between cities. Exploring the ways in which cities connect and intertwine, it offers a varied set of collaborations, highlighting different theoretical, historical and methodological perspectives.

Materiality and the Study of Religion Jul 08 2020 Material culture has emerged in recent decades as a significant theoretical concern for the study of religion. This book contributes to and evaluates this material turn, presenting thirteen chapters of new empirical research and theoretical reflection from some of the leading international scholars of material religion. Following a model for material analysis proposed in the first chapter by David Morgan, the contributors trace the life cycle of religious materiality through three phases: the production of religious objects, their classification as religious (or non-religious), and their circulation and use in material

culture. The chapters in this volume consider how objects become and cease to be sacred, how materiality can be used to contest access to public space and resources, and how religion is embodied and performed by individuals in their everyday lives.

Contributors discuss the significance of the materiality of religion across different religious traditions and diverse geographical regions, paying close attention to gender, age, ethnicity, memory and politics. The volume closes with an afterword by Manuel Vásquez.

Collaborative Computing: Networking, Applications and Worksharing Sep 21

2021 This book constitutes the thoroughly refereed proceedings of the 15th International Conference on Collaborative Computing: Networking, Applications, and Worksharing, CollaborateCom 2019, held in London, UK, in August 2019. The 40 full papers, 8 short papers and 6 workshop presented were carefully reviewed and selected from 121 submissions. The

papers reflect the conference sessions as follows: cloud, IoT and edge computing, collaborative IoT services and applications, artificial intelligence, software development, teleportation protocol and entanglement swapping, network based on the neural network, scheme based on blockchain and zero-knowledge proof in vehicle networking, software development.

Assembling Consumption Feb 01 2020 Assembling Consumption marks a definitive step in the institutionalisation of qualitative business research. By gathering leading scholars and educators who study markets, marketing and consumption through the lenses of philosophy, sociology and anthropology, this book clarifies and applies the investigative tools offered by assemblage theory, actor-network theory and non-representational theory. Clear theoretical explanation and methodological innovation, alongside empirical applications of these emerging

frameworks will offer readers new and refreshing perspectives on consumer culture and market societies. This is an essential reading for both seasoned scholars and advanced students of markets, economies and social forms of consumption.

Greater Than the Sum Jun 26 2019

Software Defined Mobile Networks (SDMN) Sep 09 2020

This book describes the concept of a Software Defined Mobile Network (SDMN), which will impact the network architecture of current LTE (3GPP) networks. SDN will also open up new opportunities for traffic, resource and mobility management, as well as impose new challenges on network security. Therefore, the book addresses the main affected areas such as traffic, resource and mobility management, virtualized traffics transportation, network management, network security and techno economic concepts. Moreover, a complete introduction to SDN and SDMN concepts. Furthermore, the

reader will be introduced to cutting-edge knowledge in areas such as network virtualization, as well as SDN concepts relevant to next generation mobile networks. Finally, by the end of the book the reader will be familiar with the feasibility and opportunities of SDMN concepts, and will be able to evaluate the limits of performance and scalability of these new technologies while applying them to mobile broadband networks.

Deep Learning for Computer

Vision Jan 26 2022 Step-by-step tutorials on deep learning neural networks for computer vision in python with Keras.

Designing Network On-Chip Architectures in the Nanoscale Era Sep 02 2022 Going beyond isolated research ideas and design experiences, *Designing Network On-Chip Architectures in the Nanoscale Era* covers the foundations and design methods of network on-chip (NoC) technology. The contributors draw on their own lessons learned to provide strong practical guidance on

various design issues.

Exploring the design process of the network, the first part of the book focuses on basic aspects of switch architecture and design, topology selection, and routing implementation. In the second part, contributors discuss their experiences in the industry, offering a roadmap to recent products. They describe Tiler's TILE family of multicore processors, novel Intel products and research prototypes, and the TRIPS operand network (OPN). The last part reveals state-of-the-art solutions to hardware-related issues and explains how to efficiently implement the programming model at the network interface. In the appendix, the microarchitectural details of two switch architectures targeting multiprocessor system-on-chips (MPSoCs) and chip multiprocessors (CMPs) can be used as an experimental platform for running tests. A stepping stone to the evolution of future chip architectures, this volume provides a how-to guide for designers of current

NoCs as well as designers involved with 2015 computing platforms. It cohesively brings together fundamental design issues, alternative design paradigms and techniques, and the main design tradeoffs—consistently focusing on topics most pertinent to real-world NoC designers.

The Social Media Age Mar 28 2022 Exploring power and participation in a connected world. Social media are all around us. For many, they are the first things to look at upon waking and the last thing to do before sleeping. Integrated seamlessly into our private and public lives, they entertain, inform, connect (and sometimes disconnect) us. They're more than just social though. In addition to our experiences as everyday users, understanding social media also means asking questions about our society, our culture and our economy. What we find is dense connections between platform infrastructures and our experience of the social, shaped by power, shifting

patterns of participation, and a widening ideology of connection. This book introduces and examines the full scope of social media. From the social to the technological, from the everyday to platform industries, from the personal to the political. It brings together the key concepts, theories and research necessary for making sense of the meanings and consequences of social media, both hopefully and critically. Dr Zoetanya Sujon is a Senior Lecturer and Programme Director for Communications and Media at London College of Communication, University of the Arts London.

[Deep Learning for Time Series Forecasting](#) Oct 11 2020 Deep learning methods offer a lot of promise for time series forecasting, such as the automatic learning of temporal dependence and the automatic handling of temporal structures like trends and seasonality. With clear explanations, standard Python libraries, and step-by-step tutorial lessons you'll discover how to develop deep learning models for your

own time series forecasting projects.

Python Machine Learning

Jan 02 2020 Unlock deeper insights into Machine Learning with this vital guide to cutting-edge predictive analytics About This Book Leverage Python's most powerful open-source libraries for deep learning, data wrangling, and data visualization Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms Ask - and answer - tough questions of your data with robust statistical models, built for a range of datasets Who This Book Is For If you want to find out how to use Python to start answering critical questions of your data, pick up Python Machine Learning - whether you want to get started from scratch or want to extend your data science knowledge, this is an essential and unmissable resource. What You Will Learn Explore how to use different machine learning models to ask different questions of your data Learn how to build neural

networks using Keras and Theano Find out how to write clean and elegant Python code that will optimize the strength of your algorithms Discover how to embed your machine learning model in a web application for increased accessibility Predict continuous target outcomes using regression analysis Uncover hidden patterns and structures in data with clustering Organize data using effective pre-processing techniques Get to grips with sentiment analysis to delve deeper into textual and social media data In Detail Machine learning and predictive analytics are transforming the way businesses and other organizations operate. Being able to understand trends and patterns in complex data is critical to success, becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace. Python can help you deliver key insights into your data - its unique capabilities as a language let you build sophisticated

algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success. Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one of the world's leading data science languages. If you want to ask better questions of data, or need to improve and extend the capabilities of your machine learning systems, this practical data science book is invaluable. Covering a wide range of powerful Python libraries, including scikit-learn, Theano, and Keras, and featuring guidance and tips on everything from sentiment analysis to neural networks, you'll soon be able to answer some of the most important questions facing you and your organization. Style and approach Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and

answering the right questions. It walks you through the key elements of Python and its powerful machine learning libraries, while demonstrating how to get to grips with a range of statistical models. [Loudspeakers](#) Jun 18 2021 Need advice on which type of speaker to use and where? Very often the choice and positioning of loudspeakers is down to intuition, hearsay and chance. This practical guide explores the link between experience and the technology, giving you a better understanding of the tools you are using and why, leading to greatly improved results. Newell and Holland share years of experience in the design, application and use of loudspeakers for recording and reproducing music. Get practical advice on the applications of different loudspeakers to the different phases of the music recording and reproduction chain. If you are using loudspeakers in a recording studio, mastering facility, broadcasting studio, film post production facility,

home or musician's studio, or you inspire to improve your music reproduction system this book will help you make the right decisions.

e-Technologies and Networks for Development Aug 01 2022

This book constitutes the proceedings of the First International Conferences on e-Technologies and Networks for Development, ICeND 2011, held in Dar-es-Salaam, Tanzania, in August 2011. The 29 revised full papers presented were carefully reviewed and selected from 90 initial submissions. The papers address new advances in the internet technologies, networking, e-learning, software applications, Computer Systems, and digital information and data communications technologies - as well technical as practical aspects.

Supply Chain Architecture

Apr 04 2020 "The book is highly readable, informative, thought provoking, and educational. At every stage, Walker challenges the reader to move away from

conventional supply chain thinking to a broader-view, highly concise approach that focuses on the organization's objectives. The book will help you visualize a supply network and develop a blueprint for your

Advances in Machine Learning and Computational Intelligence

Oct 30 2019 This book gathers selected high-quality papers presented at the International Conference on Machine Learning and Computational Intelligence (ICMLCI-2019), jointly organized by Kunming University of Science and Technology and the Interscience Research Network, Bhubaneswar, India, from April 6 to 7, 2019.

Addressing virtually all aspects of intelligent systems, soft computing and machine learning, the topics covered include: prediction; data mining; information retrieval; game playing; robotics; learning methods; pattern visualization; automated knowledge acquisition; fuzzy, stochastic and probabilistic computing; neural computing;

big data; social networks and applications of soft computing in various areas.

Neural Networks: Tricks of the Trade Apr 16 2021 The twenty last years have been marked by an increase in available data and computing power. In parallel to this trend, the focus of neural network research and the practice of training neural networks has undergone a number of important changes, for example, use of deep learning machines. The second edition of the book augments the first edition with more tricks, which have resulted from 14 years of theory and experimentation by some of the world's most prominent neural network researchers. These tricks can make a substantial difference (in terms of speed, ease of implementation, and accuracy) when it comes to putting algorithms to work on real problems.

Intelligent Communication Technologies and Virtual Mobile Networks Aug 21 2021 The book is a collection of high-quality research papers

presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during February 10-11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.

Pattern Recognition and Artificial Intelligence Jul 28 2019 This book constitutes the proceedings of the Second International Conference on Pattern Recognition and Artificial Intelligence, ICPRAI 2020, which took place in Zhongshan, China, in October 2020. The 49 full and 14 short papers presented were carefully reviewed and selected

for inclusion in the book. The papers were organized in topical sections as follows: handwriting and text processing; features and classifiers; deep learning; computer vision and image processing; medical imaging and applications; and forensic studies and medical diagnosis.

Complex Networks & Their Applications VI May 06 2020

This book highlights cutting-edge research in the field of network science, offering scientists, researchers, students and practitioners a unique update on the latest advances in theory and a multitude of applications. It presents the peer-reviewed proceedings of the VI International Conference on Complex Networks and their Applications (COMPLEX NETWORKS 2017), which took place in Lyon on November 29 - December 1, 2017. The carefully selected papers cover a wide range of theoretical topics such as network models and measures; community structure, network dynamics; diffusion, epidemics and

spreading processes; resilience and control as well as all the main network applications, including social and political networks; networks in finance and economics; biological and ecological networks and technological networks.

Mobile Ad-hoc and Sensor Networks Nov 11 2020 This book constitutes the refereed proceedings of the Third International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2007, held in Beijing, China, in December 2007. The papers address all current issues in mobile ad hoc and sensor networks and are organized in topical sections on routing, network protocols, energy efficiency, data processing, self-organization and synchronization, deployment and application, as well as security.

Communities and Networks in the Ancient Greek World

Dec 25 2021 This volume examines the diversity of networks and communities in the classical and early Hellenistic Greek world, with particular emphasis on those

which took shape within and around Athens. In doing so it highlights not only the processes that created, modified, and dissolved these communities, but shines a light on the interactions through which individuals with different statuses, identities, levels of wealth, and connectivity participated in ancient society. By drawing on two distinct conceptual approaches, that of network studies and that of community formation, *Communities and Networks in the Ancient Greek World* showcases a variety of approaches which fall under the umbrella of 'network thinking' in order to move the study of ancient Greek history beyond structuralist polarities and functionalist explanations. The aim is to reconceptualize the polis not simply as a citizen club, but as one inter-linked community amongst many. This allows subaltern groups to be seen not just as passive objects of exclusion and exploitation but active historical agents, emphasizes the processes of interaction as well as the

institutions created through them, and reveals the interpenetration between public institutions and private networks which integrated different communities within the borders of a polis and connected them with the wider world.

Passive and Active Network

Measurement Oct 03 2022 The 2008 edition of the Passive and Active Measurement Conference was the ninth of a series of successful events. Since 2000, the Passive and Active Measurement (PAM) conference has provided a forum for presenting and discussing innovative and early work in the area of Internet measurement. PAM has a tradition of being a workshop-like conference with lively discussion and active participation from all attendees. This event focuses on research and practical applications of network measurement and analysis techniques. This year's conference was held in Cleveland, Ohio. PAM2008's call for papers attracted 71

submissions. Each paper was fully reviewed by at least three members of the Technical Program Committee. The reviewing process led to the acceptance of 23 papers. The papers were - ranged into eight sessions covering the following areas: addressing and topology, applications, classification and sampling, measurement systems and frameworks, wireless 802.11, tools, characterization and trends, and malware and anomalies. We are very grateful to Endace, Intel and Cisco Systems whose sponsoring allowed us to keep low registration costs and also to offer several travel grants to PhD students. We are also grateful to Case Western Reserve University for sponsoring PAM as a host.

Deep Learning Mar 04 2020

Although interest in machine learning has reached a high point, lofty expectations often scuttle projects before they get very far. How can machine learning—especially deep neural networks—make a real difference in your

organization? This hands-on guide not only provides the most practical information available on the subject, but also helps you get started building efficient deep learning networks. Authors Adam Gibson and Josh Patterson provide theory on deep learning before introducing their open-source DeepLearning4j (DL4J) library for developing production-class workflows. Through real-world examples, you'll learn methods and strategies for training deep network architectures and running deep learning workflows on Spark and Hadoop with DL4J. Dive into machine learning concepts in general, as well as deep learning in particular. Understand how deep networks evolved from neural network fundamentals. Explore the major deep network architectures, including Convolutional and Recurrent. Learn how to map specific deep networks to the right problem. Walk through the fundamentals of tuning general neural networks and specific

deep network architectures
Use vectorization techniques
for different data types with
DataVec, DL4J's workflow tool
Learn how to use DL4J natively
on Spark and Hadoop
Smart Cyber Physical Systems
Oct 23 2021 Smart Cyber
Physical Systems: Advances,
Challenges and Opportunities
ISBN: 9780367337889 Cyber
Physical Systems (CPS) are the
new generation of collaborative
computational entities, with a
prime focus on integration of
the physical world and cyber
space. Through a feedback
mechanism, the system adapts
itself to new conditions in real
time. The scope of this book
includes research experience
by experts in CPS
infrastructure systems,
incorporating sustainability by
embedding computing and
communication in day-to-day
applications. CPS, integrated
with Blockchain, Artificial
Intelligence, Internet of Things,
Big Data, Cloud Computing and
Communication, lay a
foundation for the fourth
industrial revolution, Industry
4.0. This book will be of

immense use to practitioners in
industries with a focus on
autonomous and adaptive
configuration, and on
optimization, leading to
increased agility, elasticity and
cost effectiveness. The
contributors of this book
include renowned academics,
industry practitioners and
researchers. It offers a
rigorous introduction to the
theoretical foundations,
techniques and practical
solutions, through case studies.
Building CPS with effective
communication, control,
intelligence and security is
discussed in terms of societal
and research perspectives. The
objective of this book is to
provide a forum for
researchers and practitioners
to exchange ideas and to
achieve progress in CPS by
highlighting applications,
advances and research
challenges. It is highly
recommended to be used as a
reference book for graduate
and post-graduate level
programmes in universities,
with a focus on research in
computer science-related

courses.

Network and Parallel

Computing Apr 28 2022 This book constitutes the proceedings of the 11th IFIP WG 10.3 International Conference on Network and Parallel Computing, NPC 2014, held in Ilan, Taiwan, in September 2014. The 42 full papers and 24 poster papers presented were carefully reviewed and selected from 196 submissions. They are organized in topical sections on systems, networks, and architectures, parallel and multi-core technologies, virtualization and cloud computing technologies, applications of parallel and distributed computing, and I/O, file systems, and data management.

The SAGE Handbook of Social Studies in Health and Medicine

Feb 24 2022 With new chapters on key topics such as mental health, the environment, race, ethnicity and health, and pharmaceuticals, this new edition maintains its multidisciplinary framework

and bridges the gap between health policy and the sociology of health. It builds upon the success of the first by encompassing a range of issues, studies, and disciplines. The broad coverage of topics in addition to new chapters present an engagement with contemporary issues, resulting in a valuable teaching aid. This second edition brings together a diverse range of leading international scholars with contributors from Australia, Puerto-Rico, USA, Guatemala, Germany, Sri Lanka, Botswana, UK, South Sudan, Mexico, South Korea, Canada and more. The second edition of this Handbook remains a key resource for undergraduates, post-graduates, and researchers across multidisciplinary backgrounds including: medicine, health and social care, sociology, and anthropology. PART ONE: Culture, Society and Health PART TWO: Lived Experiences PART THREE: Health Care Systems, Access and Use PART FOUR: Health in Environmental and Planetary

Context