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Qazawat Zirak, a graduate from Pakistan of the TSU master ' s program Computer engineering: Applied AI and robotics, has created new algorithms to establish communication between drones working in a ...

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Tomsk State University: New algorithms will create a communication system in a swarm of drones

The number of smartphones, laptops and other devices connected to the internet is continuously increasing. This expanding network of connected devices, also known as the Internet of Things (IoT), ...

Researchers realize a printed millimetre-wave modulator and antenna array for backscatter communications

This article provides pointers on maintaining confidentiality and avoiding inadvertent disclosure by ensuring communications and data remain privileged and protecting against breaches and loss.

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Ethical Issues Presented by Cyber Tech in Attorney-Client Communications

Quantum key distribution (QKD) is a method for secure communication that uses quantum mechanics to encrypt information. While the security of QKD is unbreakable in principle, if it is incorrectly ...

Researchers bring attack-proof quantum communication two steps forward

A breakthrough in quantum computing could expose every communications link. The same breakthrough could make everything secure again. What could change everything are all the events in-between.

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How quantum networking could transform the internet [Status Report]

State Farm Mutual Automobile Insurance Company has been issued patent number 11042942, according to news reporting originating out of Alexandria, Virginia, by NewsRx editors. The patent ' s inventors ...

Patent Issued for Systems and methods for determining cause of loss to a property (USPTO 11042942)

A large public K-12 school system was faced with a dilemma in the pandemic: How could they communicate with parents without staff to

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answer phones at empty school buildings?

Top School District Leverages The Cloud To Revamp Communications

A network and computer systems administrator's greatest contribution is maintaining an organization's work flow and keeping its lines of communication open. This work is not for the faint of heart.

Computer Systems Administrator

Klas Telecom's newest expeditionary variant of its Voyager command, control, communications, computer, cyber, intelligence, reconnaissance, and surveillance ...

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Klas Telecom unveils expeditionary C5ISR network chassis

Since these communication systems are tightly integrated with other IT equipment within enterprise networks, they also inadvertently increase the attack surface by introducing new vulnerabilities ...

NSA shares guidance on securing voice, video communications

RUDN University mathematicians have developed a model for calculating the density of 5G stations needed to achieve the required network parameters.

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RUDN University mathematicians calculate the density of 5G stations for any network requirements

Free-space optical communications uses lasers propagating in free space to transmit data wirelessly for telecommunications or computer ... and tracking systems and automated network management ...

Navy eyes free-space laser communications to transmit wireless data to users more than six miles away

According to news reporting originating from Alexandria, Virginia, by NewsRx journalists, a patent by the inventors Duehr, Ronald R., Scott, Abigail A., filed on April 4, 2019, was published online on ...

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Patent Issued for Method and system for identifying security risks using graph analysis (USPTO 11044255)

Zacks Equity Research discusses Communication - Satellites, including Iridium Communications Inc. IRDM, Globalstar, Inc. GSAT and ORBCOMM Inc. ORBC. Link: The pandemic-triggered business disruption ...

Zacks Industry Outlook Highlights: Iridium Communications, Globalstar and ORBCOMM

MIT World Peace University's (MIT-WPU) School of Computer Science and School of Mathematics & Statistics, offers a course ...

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Admissions open for B.Sc. programs in Computer Science and Computational Mathematics & Statistics at MIT-WPU, apply now! (OTCQB: SYSX), a leading cryptocurrency, information technology and network solutions and services provider to government and commercial customers, today announced that its wholly owned subsidiary, ...

Sysorex Government Services Awarded \$10 Million Contract for Secure Video Relay Systems

The "Global Military Cyber Weapons - Market and Technologies Forecast to 2027" report has been added to ResearchAndMarkets.com's offering. "Global ...

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Global Military Cyber Weapons Market and Technologies Forecast Report 2021-2027 - ResearchAndMarkets.com

Top Companies in the global Routers market are ADTRAN, Actelis Networks, ZTE Corporation, Huawei Technologies, Juniper Networks, Brocade Communications Systems, Extreme Networks, Cisco Systems, ...

Routers sales Market 2021 Advancement Outlook – ADTRAN, Actelis Networks, ZTE Corporation, Huawei Technologies, Juniper Networks

Researchers from the National University of Singapore have come up with two new ways to protect quantum communications from attacks -

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the first is an ultra-secure cryptography protocol, and the other ...

Communication networks and computer systems research is entering a new phase in which many of the established models and techniques of the last twenty years are being challenged. The research community is continuing to free itself from past intellectual constraints so that it may fully exploit the convergence of computing and communications. Evaluating the performance of emerging communications and computer systems constitutes a huge challenge. Thus, current research provides a set of heterogeneous tools and techniques embracing the uncertainties of time and space varying environments when the requests for diverse services are made in real time, and with very

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different quality of service expectations. These novel techniques will lead to fast and economic service deployment and effective dynamic resource management, and hence to new business strategies and infrastructures that will facilitate the emergence of future services and applications. This volume contains contributions and presentations made by leading international researchers at a workshop which was held in April 2004 to honour Professor Erol Gelenbe on the occasion of his inaugural lecture as the Dennis Gabor Chair at Imperial College London. Contents: Erol Gelenbe's Contributions to Computer and Networks Performance (A Bensoussan) Rethinking Incentives for Mobile Ad Hoc Networks (E Huang et al.) Fair and Efficient Allocation of Resources in the Internet (R M Salles & J A Barria) The Locality Principle (P J Denning) A Simulation-Based Performance Analysis of Epoch Task Scheduling in Distributed Processors (H

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Karatzas) Counter Intuitive Aspects of Statistical Independence in Steady State Distributions (J P Buzen) The Non-Stationary Loss Queue: A Survey (K A Alnowibet & H Perros) Stabilization Techniques for Load-Dependent Queueing Networks Algorithms (G Casale & G Serazzi) Modelling and Simulation of Interdependent Critical Infrastructure: The Road Ahead (E Casalicchio et al.) Stochastic Automata Networks and Lumpable Stochastic Bounds: Bounding Availability (J M Fourneau et al.) Aggregation Methods for Cross-Layer Simulations (M Becker et al.) Space and Time Capacity in Dense Mobile Ad Hoc Networks (P Jacquet) Stochastic Properties of Peer-to-Peer Communication Architecture in a Military Setting (D P Gaver & P A Jacobs) Quantifying the Quality of Audio and Video Transmissions over the Internet: The PSQA Approach (G Rubino) A Study of the Dynamic Behavior of a Web Site (M C Calzarossa & D

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Tessera) Readership: Postgraduate and graduate students in computing and electrical & electronic engineering; computer and communication systems engineers. Keywords:Resource Management;Modeling;Simulation;Computer and Communication NetworksKey Features:A selection of outstanding research contributions by international experts in the field of networks and computer systemsUseful for graduate students, researchers and experts

Computing in Communication Networks: From Theory to Practice provides comprehensive details and practical implementation tactics on the novel concepts and enabling technologies at the core of the paradigm shift from store and forward (dumb) to compute and forward (intelligent) in future communication networks and systems. The book explains how to create virtualized large scale testbeds using

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well-established open source software, such as Mininet and Docker. It shows how and where to place disruptive techniques, such as machine learning, compressed sensing, or network coding in a newly built testbed. In addition, it presents a comprehensive overview of current standardization activities. Specific chapters explore upcoming communication networks that support verticals in transportation, industry, construction, agriculture, health care and energy grids, underlying concepts, such as network slicing and mobile edge cloud, enabling technologies, such as SDN/NFV/ ICN, disruptive innovations, such as network coding, compressed sensing and machine learning, how to build a virtualized network infrastructure testbed on one ' s own computer, and more. Provides a uniquely comprehensive overview on the individual building blocks that comprise the concept of computing in future networks Gives practical

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hands-on activities to bridge theory and implementation Includes software and examples that are not only employed throughout the book, but also hosted on a dedicated website

This book provides extensive insights on blockchain systems, starting from a historical perspective and moving towards building foundational knowledge, with focus on communication networks. It covers blockchain applications, algorithms, architectures, design and implementation, and security and privacy issues, providing the reader with a comprehensive overview. Further, it discusses blockchain systems and its integration to communication networks. The book includes hands-on, practical tutorials, self-assessment exercises, and review questions; tips and sample programs are also provided throughout. Complementary supporting material for instructors,

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including open source programming code for practical tutorials and exercises, is also available. The target audience includes graduate students, professionals, and researchers working in the areas of blockchain systems, distributed ledger technology, computer networks and communications, artificial intelligence, and cybersecurity.

Providing performance guarantees is one of the most important issues for future telecommunication networks. This book describes theoretical developments in performance guarantees for telecommunication networks from the last decade. Written for the benefit of graduate students and scientists interested in telecommunications-network performance this book consists of two parts. The first introduces the recently-developed filtering theory for providing deterministic (hard) guarantees, such as bounded delay and

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queue length. The filtering theory is developed under the min-plus algebra, where one replaces the usual addition with the min operator and the usual multiplication with the addition operator. As in the classical linear system theory, the filtering theory treats an arrival process (or a departure process) as a signal and a network element as a system. Network elements, including traffic regulators and servers, can be modelled as linear filters under the min-plus algebra, and they can be joined by concatenation, "filter bank summation", and feedback to form a composite network element. The problem of providing deterministic guarantees is equivalent to finding the impulse response of composite network elements. This section contains material on: - (s, r)-calculus - Filtering theory for deterministic traffic regulation, service guarantees and networks with variable-length packets - Traffic specification - Networks with multiple inputs and outputs -

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Constrained traffic regulation The second part of the book addresses stochastic (soft) guarantees, focusing mainly on tail distributions of queue lengths and packet loss probabilities and contains material on: - $(s(q), r(q))$ -calculus and q -envelope rates - The large deviation principle - The theory of effective bandwidth The mathematical theory for stochastic guarantees is the theory of effective bandwidth. Based on the large deviation principle, the theory of effective bandwidth provides approximations for the bandwidths required to meet stochastic guarantees for both short-range dependent inputs and long-range dependent inputs.

This book (CCIS 839) constitutes the refereed proceedings of the First International Conference on Communication, Networks and Computings, CNC 2018, held in Gwalior, India, in March 2018. The

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70 full papers were carefully reviewed and selected from 182 submissions. The papers are organized in topical sections on wired and wireless communication systems, high dimensional data representation and processing, networks and information security, computing techniques for efficient networks design, electronic circuits for communication system.

Planning computer - communication networks; System design for computer networks; Optimal file allocation in a computer network; Scheduling, queueing, and delays in time-shared systems and computer networks; Common-carrier data communication; Interfacing and data concentration; Asynchronous time-division multiplexing systems; Multiple-access communications for computer nets; Regulatory policy and future data-transmission services;

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Economic considerations in computer-communication systems; The dartmouth time sharing network; Exploratory research on netting at IBM; The ARPA network.

This book constitutes the refereed post-conference proceedings of the 9th International Conference on Communication Systems and Networks, COMSNETS 2017, held in Bengaluru, India, in January 2017. The 9 invited and 10 selected best papers have been carefully reviewed and selected from 192 submissions. They cover various topics in networking and communications systems.

Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the

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primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end

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data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What ' s Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the center of attention Free downloadable network

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simulation software and lab experiments manual available

This book constitutes the refereed proceedings of the 21th International Conference on Distributed and Computer and Communication Networks, DCCN 2018, held in Moscow, Russia, in September 2018. The 50 full papers and the 9 short papers were carefully reviewed and selected from 168 submissions. The papers cover the following topics: computer and communication networks architecture optimization; control in computer and communication networks; performance and QoS/QoE evaluation in wireless networks; analytical modeling and simulation of next-generation communications systems; queueing theory and reliability theory applications in computer networks; wireless 4G/5G networks, cm- and mm-wave radio technologies; RFID technology and its application in

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intellectual transportation networks; Internet of Things, wearables, and applications of distributed information systems; probabilistic and statistical models in information systems; mathematical modeling of high-tech systems; mathematical modeling and control problems; distributed and cloud computing systems, big data analytics.

Analysis of Computer and Communication Networks provides the basic techniques for modeling and analyzing two of the fundamental components of high performance networks: switching equipment, and software employed at the end nodes and intermediate switches. The book also reviews the design options used to build efficient switching equipment. Topics covered include Markov chains and queuing analysis, traffic modeling, interconnection networks, and switch architectures and buffering strategies. This book covers the

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mathematical theory and techniques necessary for analyzing telecommunication systems. Queuing and Markov chain analyses are provided for many protocols currently in use. The book then discusses in detail applications of Markov chains and queuing analysis to model more than 15 communications protocols and hardware components.

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