Passive And Active Network Measurement 6th International Workshop Pam 2005 Boston Ma Usa March 31 April 1 200 Proceedings Lecture Notes In Networks And Telecommunications

A rigorous yet accessible treatment of the fundamental theory and algorithms of network tomography. Green communications is a very hot topic. As mobile networks evolve in terms of higher rates/throughput, a consequent impact on operating costs is due to (aggregate) network energy consumption. As such, design on 4G networks and beyond have increasingly started to focus on `energy efficiency' or so-called 'green' networks. Many techniques and solutions have been proposed to enhance the energy efficiency of mobile networks, yet no book has provided an in-depth analysis of the energy consumption issues in mobile networks nor has detailed theories, tools and solutions for solving the energy efficiency problems. This book presents the techniques and solutions for enhancing energy efficiency of future mobile networks, and consists of three major parts. The first part presents a general description of mobile network evolution in terms of both capacity and energy efficiency. The second part discusses the advanced techniques to green mobile networks. The third part discusses the solutions that enhance mobile network energy efficiency as well as provides future directions. Whilst the reader is expected to have basic knowledge of wireless communications, the authors present a brief introduction of the evolution of mobile networks, providing the knowledge base for understanding the content of the book. In addition, complicated network problems are illustrated using simple examples. This will help the reader understand the concept and intuition of various

techniques and solutions. Incorporates the latest research results from both academia and industry, providing an up-to-date overview of existing technologies and solutions on making mobile networks greener Consists of three sections with a gradually increasing technical depth on green mobile networks, providing the reader with a systematic view of the research area, and helping those with different technical backgrounds to better understand the content Covers existing enabling technologies for green mobile networking, including an innovative discussion of state-of-the-art solutions and algorithms

This book constitutes the refereed proceedings of the 8th International Conference on Passive and Active Measurement, PAM 2007, held in Louvain-la-Neuve, Belgium, April 2007. Coverage focuses on research and practical applications of network measurement and analysis techniques, detailing interdomain routing, P2P, wireless 802.11, wireless 3G/CDMA/Bluetooth, infrastructure and services, traffic, and measurement principles.

This book constitutes the refereed proceedings of the 11th European Symposium on Research in Computer Security, ESORICS 2006. The 32 revised full papers presented were carefully reviewed and selected from 160 submissions. ESORICS is confirmed as the European research event in computer security; it presents original research contributions, case studies and implementation experiences addressing any aspect of computer security - in theory, mechanisms, applications, or practical experience.

Handbook of Research on Network Forensics and Analysis Techniques
5th International Workshop, PAM 2004, Antibes Juan-les-Pins, France, April 19-20, 2004, Proceedings
Identifiability, Measurement Design, and Network State Inference
PAM 2010: Posters
12th Asia-Pacific Network Operations and Management Symposium, APNOMS 2009 Jeju, South Korea, September 23-25, 2009 Proceedings

... International Conference, PAM ... : Proceedings

This book constitutes the proceedings of the 21st International Conference on Passive and Active Measurement, PAM 2020, which was planned to be held in Eugene, Oregon, USA, in March 2020. Due to the Corona pandemic, the conference was organized as a virtual meeting. The 19 full papers presented in this volume were carefully reviewed and selected from 65 submissions. They were organized in topical sections named: active measurement; security; best practices and conformance; domain names; topology and routing; topology - alias resolution; and Web. This book constitutes the proceedings of the 18th International Conference on Passive and Active Measurement, PAM 2017, held in Sydney, Australia, in March 2017. The 20 full papers presented in this volume were carefully reviewed and selected from 87 submissions. They are organized in topical sections on IPv6, Web and applications, security, performance, latency, characterization and troubleshooting, and wireless. th This volume presents the proceedings of the 6 IEEE International Workshop on IP Operations and Management (IPOM 2006), which was held as part of Manweek 2006 rd th in Dublin, Ireland from October 23 to 25 , 2006. In line with its reputation as one ofthe pre-eminent venues for the discussion and debate of advances of management of IP networks and services, the 2006 iteration of IPOM

brought together an international audience of researchers and practitioners from both industry and academia. The overall theme of Manweek 2006 was "Autonomic Component and System Management",with IPOM taking this to be the application of autonomic principles to the IP operations, administration, maintenance and provisioning (OAM&P) domain. IPOM 2006 is more relevant than ever to the emerging communications infrastr- ture that is increasingly focused on "convergence" of networks and services. Although arguably over-hyped, there is a fundamental truth to this convergence story, and this is based on the fact that the TCP/IP protocol suite (IPv4 and IPv6) has become the common denominator for a plethora of such converged services. One good example in the period between IPOM 2005 and IPOM 2006 has been the large scale deployment of consumer VoIP, linked to the success of Skype and alternatives including SIP-based approaches. In many countries VoIP is driving broadband deployment for SMEs where real costs savings can be accrued, especially for companies with remote staff in the ?eld.
The 2009 edition of the Passive and Active Measurement Conference was the tenth of a series of successful events. Since 2000, the Passive and Active M- surement (PAM) conference has provided a forum for presenting and discussing innovative and early work in the area of Internet measurement. This event - cuses on research and practical applications of network measurement and an- ysis techniques. The

conference's goal is to provide a forum for current work in its early stages. This year's conference was held at Seoul National University in Seoul, the 600-year-old capital of Korea. PAM 2009 attracted 77 submissions. Each paper was carefully reviewed by at least three members of the Technical Program Committee. The reviewing process led to the acceptance of 22 papers and 2 demos. Demos are a novelty of this year's PAM. The goal of demos is to present measurement tools, which can be so useful for our community. The papers and demos were arranged into nine sessionscoveringthefollowingareas:routingandforwarding;topologyanddelay; methods for large-scale measurements; wireless; management tools; audio and videotra?c;peer-to-peer;tra?cmeasurements;andmeasurementsofanomalous andunwantedtra?c.Thetechnicalprogramoftheconferencewascomplemented by a half-day PhD student workshop with poster presentations and a panel. We would liketo thank allmembers ofthe TechnicalProgramCommittee for theirtimelyandthoroughreviews.SpecialthankstoBalachanderKrishnamurthy and Konstantina Papagiannaki for handling all papers with PC-Chair con?ict. WewouldalsoliketothankSojinLeeforlayingoutplansforthebudget,lodging, and banquets and seeing them through, as well as Seoyeon Kang, who managed the website andwasalwaysthere to help outwith last-minute details.

International Conference, ICOIN 2006, Sendai, Japan, January 16-19, 2006, Revised Selected Papers
6th IEEE International Workshop on IP Operations and Management, IPOM 2006, Dublin, Ireland, October 23-25, 2006, Proceedings
Network Tomography
Passive and Active Network Measurement
Innovative Internet Computing Systems

This book constitutes the proceedings of the 20th International Conference on Passive and Active Measurement, PAM 2019, held in Puerto Varas, Chile, in March 2019. The 20 full papers presented were carefully reviewed and selected from 75 submissions. The papers cover a wide range of important networking measurement and analysis topics from low layers of the network stack up to applications, using measurements at scales large and small, and covering important aspects of the network ecosystem such as routing, DNS, privacy, security, and performance. They are organized in the following topical sections: mobile networks; measurement at Internet scale; measuremen at other scales; domain names; failures; security and privacy; and Web.
This book constitutes the refereed proceedings of the 12th

International Conference on Passive and Active Measurement, PAM 2011, held in Atlanta, GA, USA, in March 2011. The 24 revised full papers presented were carefully reviewed and selected from 56 submissions. The papers were arranged into seven sessions covering passive measurement, wireless models, bandwidth, automated bots, route avoidance, interdomain protocols, timing, and diagnosis. Over past few years, technologies have experienced boundaries getting blurred and concept of convergence to gain prominence. Harnessing from this, two main tracks for information processing management and communication are held, covering both research and application works of information management, intelligent information processing, interaction management, networking/ telecommunications, and social interaction. This book creates unique opportunity for research convergence among truly diverse technology domains of computer science. Leveraging from this diversity of topics, researchers get to generate novel research ideas by seeking application of their research in a different technology domain. This volume represents the collection of papers presented at the 13th International Conference on Ubiquitous Information Management and Communication (IMCOM 2019), held on 4-6 January 2019 in Phuket, Thailand. Out of 228 papers submitted from all around the world 88 papers were accepted for presentations. The 88 contributions to this volume are organized into 5 chapters:

Chapter 1. Network Evolution, Chapter 2. Intelligent and Secure Network, Chapter 3. Image and Video Processing, Chapter 4. Information Technology and Society, and Chapter 5. Data Mining and Learning. Our editors wish readers to find this volume informative and enjoyable. PAM 2004 was the 5th International Workshop on Passive and Active Measu- ment, heldinJuan-les-PinsontheFrenchRiviera, co-organizedbytheUniversity ofCambridgeandINRIA-SophiaAntipolis, with?nancialsupportfromInteland Cisco Systems. This year we received a record number of submissions (184), re?ecting the growth of the?eld and the critical role it plays in maintaining the network infrastructure on which we all rely. From the two-page abstracts submitted, the programme committee selected 29 papers whose authors were invited to submit full papers to appear in these proceedings. Particular emphasis was placed on selecting work that we felt was fresh and exciting, so as to encourage a dynamic and interactive workshop that provided a?rst public presentation of research that will go on to appear in other, more formal conferences and journals. The programme committee was greatly impressed with the strength and depth of submissions received, which bodes well for the future of the subject area. This workshop took place during April 19-20, 2004 in Juan-les-Pins. Located betweentheAlpsandtheMediterranean, andclosetoNice, CannesandMonaco, Juan-les-Pins is one of the most

beautiful sites on the French Riviera. Juan-les- Pins is also close to Sophia Antipolis, the French telecom valley. The workshop could not have succeeded without the support of many people whom we would like thank. First, we thank the members of the programme c- mittee for donating a considerable amount of time to review the unexpectedly large number of submissions, while working to a very tight deadline.

21st International Conference, PAM 2020, Eugene, Oregon, USA, March 30-31, 2020, Proceedings

6th International Workshop, PAM 2005, Boston, MA, USA, March 31 - April 1, 2005, Proceedings

23rd International Conference, PAM 2022, Virtual Event, March 28-30, 2022, Proceedings

Information Networking Advances in Data Communications and Wireless Networks

Passive and Active Measurement

17th International Conference, PAM 2016, Heraklion, Greece, March 31 - April 1, 2016. Proceedings

Passive and Active Network MeasurementPassive and Active Network Measurement... International Conference, PAM ... : ProceedingsPAM 2004Springer Science & Business Media

As other complex systems in social and natural sciences as well as in engineering, the Internet is hard to understand from a technical point

of view. Packet switched networks defy analytical modeling. The Internet is an outstanding and challenging case because of its fast development, unparalleled heterogeneity and the inherent lack of measurement and monitoring mechanisms in its core conception. This monograph deals with applications of computational intelligence methods, with an emphasis on fuzzy techniques, to a number of current issues in measurement, analysis and control of traffic in the Internet. First, the core building blocks of Internet Science and other related networking aspects are introduced. Then, data mining and control problems are addressed. In the first class two issues are considered: predictive modeling of traffic load as well as summarization of traffic flow measurements. The second class, control, includes active queue management schemes for Internet routers as well as window based end-to-end rate and congestion control. The practical hardware implementation of some of the fuzzy inference systems proposed here is also addressed. While some theoretical developments are described, we favor extensive evaluation of models using real-world data by simulation and experiments.

This volume, LNCS 3961, contains the papers selected from those presented at the International Conference on Information Networking 2006 (ICOIN 2006), held in Sendai, Japan. ICOIN 2006 constituted the 20th Anniversary of ICOIN. This year's conference program mainly

focused on the field of ubiquitous and overlay networks, and on technology for ad hoc and sensor networks, mobile networks, transport networks, QoS and resource management, network security, peer-to-peer and overlay networks, resource management, and their applications. In response to the call for papers, 468 papers were submitted by authors from 23 different countries from Europe, the Middle East, and the Americas. Each paper was evaluated by two or three internationally known experts to assure the excellence of the papers presented at ICOIN 2006. To keep within the conference topics, some excellent papers had to be rejected to our regret. After extensive reviews, 141 papers were chosen for presentation in 25 technical sessions. Furthermore, another review of these papers was performed during presentation, and finally 98 papers were selected for printing in LNCS 3961. We expect this will add to the excellence of ICOIN 2006. The papers in LNCS 3961 are categorized into 8 sections: Mobile and Ubiquitous Networking, Ad Hoc and Sensor Networks, Advanced Networking, QoS and Resource Management, Network and Transport Protocols, Network Security, Applications and Services, and Peer-to-Peer and Overlay Networks, ranging from information networking to applications in next generation networks.
This book constitutes the refereed proceedings of the 9th Asia-Pacific Network Operations and Management Symposium, APNOMS 2006. The book

presents 50 revised full papers and 25 revised short papers, organized in topical sections on management of ad hoc and sensor networks, network measurements and monitoring, mobility management, QoS management, management architectures and models, security management, E2E QoS and application management, management experience, NGN management, and IP-based network management.

CoreGRID 2006, UNICORE Summit 2006, Petascale Computational Biology and Bioinformatics, Dresden, Germany, August 29-September 1, 2006, Revised Selected Papers

19th International Conference, PAM 2018, Berlin, Germany, March 26-27, 2018, Proceedings

20th International Conference, PAM 2019, Puerto Varas, Chile, March 27-29, 2019, Proceedings

Management Enabling the Future Internet for Changing Business and New Computing Services

Selected Topics in Communication Networks and Distributed Systems

Euro-Par 2006 Workshops: Parallel Processing

This book provides a comprehensive overview of network behavior analysis that mines Internet traffic data in order to extract, model, and make sense of behavioral patterns in Internet "objects" such as end hosts, smartphones, Internet of things, and applications. The objective of this book is to fill the book publication gap in network behavior analysis,

which has recently become an increasingly important component of comprehensive network security solutions for data center networks, backbone networks, enterprise networks, and edge networks. The book presents fundamental principles and best practices for measuring, extracting, modeling and analyzing network behavior for end hosts and applications on the basis of Internet traffic data. In addition, it explains the concept and key elements (e.g., what, who, where, when, and why) of communication patterns and network behavior of end hosts and network applications, drawing on data mining, machine learning, information theory, probabilistic graphical and structural modeling to do so. The book also discusses the benefits of network behavior analysis for applications in cybersecurity monitoring, Internet traffic profiling, anomaly traffic detection, and emerging application detections. The book will be of particular interest to researchers and practitioners in the fields of Internet measurement, traffic analysis, and cybersecurity, since it provides a spectrum of innovative techniques for summarizing behavior models, structural models, and graphic models of Internet traffic, and explains how to leverage the results for a broad range of real-world applications in network management, security operations, and cyber-intelligent analysis. After finishing this book, readers will 1) have learned the principles and practices of measuring, modeling, and analyzing network behavior on the basis of massive Internet traffic data; 2) be able

to make sense of network behavior for a spectrum of applications ranging from cybersecurity and network monitoring to emerging application detection; and 3) understand how to explore network behavior analysis to complement traditional perimeter-based firewall and intrusion detection systems in order to detect unusual traffic patterns or zero-day security threats using data mining and machine learning techniques. To ideally benefit from this book, readers should have a basic grasp of TCP/IP protocols, data packets, network flows, and Internet applications. This book constitutes the refereed proceedings of the second international workshop on Innovative Internet Computing Systems, IICS 2002, held in Khlungsborn, Germany, in June 2002. The 19 revised full papers presented together with an invited paper were carefully reviewed and selected from over 30 submissions. Among the topics addressed are large-scale distributed computing infrastructures presenting new challenges to information and Web technology, the management and retrieval of web-based information, content classification, web-based communities management, structure and retrieval of information from large distributed data bases, and the representation of the distributed nature of information by means of graph-theoretical models. This book constitutes the refereed proceedings of the First International Conference on Ubiquitous Communications and Network Computing, UBICNET 2017, held in Bangalore, India, in August 2017. The 23 full

papers were selected from 71 submissions and are grouped in topical sections on safety and energy efficient computing, cloud computing and mobile commerce, advanced and software defined networks, and advanced communication systems and networks.

This book constitutes the thoroughly refereed post-proceedings of the IFIP-TC6 6th Annual International Working Conference on Active Networks, IWAN 2004, held in Lawrence, KS, USA in October 2004. The 14 revised full papers presented together with one invited paper are organized in topical sections on active networking systems, active networking security, active networking applications, mobile active networks, and active networking management.

Performance Evaluation for Network Services, Systems and Protocols
8th International Workshop, CRITIS 2013, Amsterdam, The Netherlands, September 16-18, 2013, Revised Selected Papers
Network Behavior Analysis
Ubiquitous Communications and Network Computing
12th International Conference, PAM 2011, Atlanta, GA, USA, March 20-22, 2011, Proceedings
PAM 2004

This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Critical Information Infrastructures

*Security, CRITIS 2013, held in Amsterdam, The Netherlands, in
September 2013. The 16 revised full papers and 4 short papers were
thoroughly reviewed and selected from 57 submissions. The papers
are structured in the following topical sections: new challenges,
natural disasters, smart grids, threats and risk, and SCADA/ICS and
sensors.*

*This book constitutes the proceedings of the 20th International
Conference on Passive and Active Measurement, PAM 2019, held in
Puerto Varas, Chile, in March 2019. The 20 full papers presented
were carefully reviewed and selected from 75 submissions. The
papers cover a wide range of important networking measurement and
analysis topics from low layers of the network stack up to
applications, using measurements at scales large and small, and
covering important aspects of the network ecosystem such as routing,
DNS, privacy, security, and performance. They are organized in the
following topical sections: mobile networks; measurement at Internet
scale; measuremen at other scales; domain names; failures; security
and privacy; and Web. .*

The Second International Workshop on Traffic Monitoring and

Analysis (TMA 2010) was an initiative of the COST Action IC0703 "Data Traffic Monitoring and Analysis: Theory, Techniques, Tools and Applications for the Future Networks" (http:// www.tma-portal.eu/cost-tma-action). The COST program is an intergovernmental framework for European cooperation in science and technology, promoting the coordination of nationally funded research on a European level. Each COST Action aims at reducing the fragmentation in - search and opening the European research area to cooperation worldwide. Traffic monitoring and analysis (TMA) is nowadays an important research topic within the field of computer networks. It involves many research groups worldwide that are collectively advancing our understanding of the Internet. The importance of TMA research is motivated by the fact that modern packet n- works are highly complex and ever-evolving objects. Understanding, developing and managing such environments is difficult and expensive in practice. Traffic monitoring is a key methodology for understanding telecommunication technology and improving its operation, and the recent advances in this field suggest that evolved TMA-based techniques can play a key role in the operation of real networks.

This book constitutes the refereed proceedings of the 15th International Conference on Passive and Active Measurement, PAM 2014, held in Los Angeles, CA, USA, in 2014. The 24 revised full papers presented were carefully reviewed and selected from 76 submissions. The papers have been organized in the following topical sections: internet wireless and mobility; measurement design, experience and analysis; performance measurement; protocol and application behavior; characterization of network behavior; and network security and privacy. In addition 7 poster papers have been included.
Computer Security – ESORICS 2006
Second International Workshop, IICS 2002, Kühlungsborn, Germany, June 20-22, 2002, Proceedings
20th International Conference, PAM 2019, Puerto Varas, Chile, March 27–29, 2019, Proceedings
A Networking Perspective
Management of Convergence Networks and Services
Proceedings of the 13th International Conference on Ubiquitous Information Management and Communication (IMCOM) 2019

With the rapid advancement in technology, myriad new threats have emerged in online environments. The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes. The Handbook of Research on Network Forensics and Analysis Techniques is a current research publication that examines the advancements and growth of forensic research from a relatively obscure tradecraft to an important part of many investigations. Featuring coverage on a broad range of topics including cryptocurrency, hand-based biometrics, and cyberterrorism, this publication is geared toward professionals, computer forensics practitioners, engineers, researchers, and academics seeking relevant research on the development of forensic tools.

This book constitutes the proceedings of the 22nd Conference on Passive and Active Measurement, PAM 2021, which was planned to be held in Cottbus, Germany, in March 2021. Due to the Corona pandemic, the conference was organized as a virtual meeting. The 33 full papers presented in this volume were carefully reviewed and selected from 75 submissions. They were organized in topical sections named: COVID-19; web security; video streaming; TLS; staying connected; DoS; performance; network security; DNS; capacity; and exposing hidden behaviors. Due to the Corona pandemic, PAM 2021 was held as a virtual conference.

This book constitutes the proceedings of the 17th International Conference on Passive and Active Measurement, PAM 2016, held in Heraklion, Crete, Greece, in March/April

2016. The 30 full papers presented in this volume were carefully reviewed and selected from 93 submissions. They are organized in topical sections named: security and privacy; mobile and cellular; the last mile; testbeds and frameworks; web; DNS and routing; IXPs and MPLS; and scheduling and timing.

This book provides a quick reference and insights into modeling and optimization of software-defined networks (SDNs). It covers various algorithms and approaches that have been developed for optimizations related to the control plane, the considerable research related to data plane optimization, and topics that have significant potential for research and advances to the state-of-the-art in SDN. Over the past ten years, network programmability has transitioned from research concepts to more mainstream technology through the advent of technologies amenable to programmability such as service chaining, virtual network functions, and programmability of the data plane. However, the rapid development in SDN technologies has been the key driver behind its evolution. The logically centralized abstraction of network states enabled by SDN facilitates programmability and use of sophisticated optimization and control algorithms for enhancing network performance, policy management, and security.Furthermore, the centralized aggregation of network telemetry facilitates use of data-driven machine learning-based methods. To fully unleash the power of this new SDN paradigm, though, various architectural design, deployment, and operations questions need to be addressed.

Associated with these are various modeling, resource allocation, and optimization
opportunities.The book covers these opportunities and associated challenges, which
represent a ``call to arms'' for the SDN community to develop new modeling and
optimization methods that will complement or improve on the current norms.
10th International Conference, PAM 2009, Seoul, Korea, April 1-3, 2009, Proceedings
Measurement, Models, and Applications
9th Asia-Pacific Network Operations and Management Symposium, APNOMS 2006,
Busan, Korea, September 27-29, 2006, Proceedings
Autonomic Principles of IP Operations and Management
22nd International Conference, PAM 2021, Virtual Event, March 29 – April 1, 2021,
Proceedings
Active Networks
*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 M- surement (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 c- ference was held in Cleveland, Ohio.
PAM2008's call for papers attracted 71 submissions. Each paper was ca- 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,classi?cationandsampling,measurementsystems andframeworks, 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 o?er several travel grants to PhD students. We are also grateful to Case Western Reserve University for sponsoring PAM as a host.

This book constitutes the proceedings of the 19th International Conference on Passive and Active Measurement, PAM 2018, held in Berlin, Germany, in March 2018. The 20 full papers presented in this volume were carefully reviewed and selected from 50 submissions. The papers demonstrate the import and extent to which measurements pervade systems – from protocols to performance to security. They are organized in the following topical sections: models and inference; security and privacy; CDNs; DNS; certificates; interdomain routing; and analyzing protocols.

This book provides a comprehensive view of the methods and approaches for performance evaluation of computer networks. It offers a clear and logical introduction to the topic, covering both fundamental concepts and practical aspects. It enables the reader to answer a series of questions regarding performance evaluation in modern computer networking scenarios, such as 'What, where, and when to measure?', 'Which time scale is more appropriate for a particular measurement and analysis?', 'Experimentation, simulation or emulation? Why?', and 'How do I best design a sound performance evaluation plan?'. The book includes concrete examples and

applications in the important aspects of experimentation, simulation and emulation, and analytical modeling, with strong support from the scientific literature. It enables the identification of common shortcomings and highlights where students, researchers, and engineers should focus to conduct sound performance evaluation. This book is a useful guide to advanced undergraduates and graduate students, network engineers, and researchers who plan and design proper performance evaluation of computer networks and services. Previous knowledge of computer networks concepts, mechanisms, and protocols is assumed. Although the book provides a quick review on applied statistics in computer networking, familiarity with basic statistics is an asset. It is suitable for advanced courses on computer networking as well as for more specific courses as a secondary textbook.

This book constitutes the refereed proceedings of the 5th International Passive and Active Measurement Workshop, PAM 2004, held in Antibes Juan-les-Pins, France in April 2004. The 29 revised full papers presented were carefully reviewed and selected from 184 submissions. The papers are organized in topical sections on P2P and overlay, network optimization, traffic analysis, protocol and system measurement, tools, miscellaneous, network measurement, and BGP and routing.

Traffic Monitoring and Analysis

Second International Workshop, TMA 2010, Zurich, Switzerland, April 7, 2010. Proceedings

15th International Conference, PAM 2014, Los Angeles, CA, USA, March 10-11, 2014, Proceedings

Mining and Control of Network Traffic by Computational Intelligence
Critical Information Infrastructures Security
IFIP TC6 6th International Working Conference, IWAN 2004, Lawrence, KS, USA, October 27-29, 2004, Revised Papers

This book constitutes the refereed proceedings of the 6th International Workshop on Passive and Active Measurement, PAM 2005, held in Boston, MA, USA in March/April 2005. The 24 revised full papers and 12 revised short papers presented were carefully reviewed and selected from 84 submissions. The papers are organized in topical sections on TCP measurements, application measurements, network inference and problem diagnosis, topology measurements, wireless network measurements, monitoring facilities, routing and traffic engineering measurements, and spectroscopy and bandwidth estimation.

This book constitutes the proceedings of the 23rd International Conference on Passive and Active Measurement, PAM 2022, held in March 2022. Due to COVID-19 pandemic, the conference was held virtually. The 15 full papers and 15 short papers presented in this volume were carefully reviewed and selected from 62 submissions. The papers present emerging and early-stage research in network measurements – work that seeks to better understand complex, real-

world networked systems and offer critical empirical foundations and support to network research.

We are delighted to present the proceedings of the 12th Asia-Paci?c Network Operations and Management Symposium (APNOMS 2009), which was held in Jeju, Korea, during September 23–25, 2009. Recently, various convergences in wired and wireless networks, and conv- gence of telecommunications and broadcastings, are taking place for ubiquitous multimedia service provisioning. For example, broadband IP/MPLS wired n- works are actively converged with IEEE 802.11e wireless LAN, IEEE 802.16 Wireless MAN, 3G/4G wireless cellular networks, and direct multimedia bro- cast (DMB) networks. For e?cient support of service provisioning for ubiq- tous multimedia services on the broadband convergencenetworks, well-designed and implemented network operations and management functions with Q- guaranteed tra?c engineering are essential. The converged network will open the way for a new world with emerging new businesses and computing services. The Organizing Committee (OC) selected "Management Enabling the Future Internet for Changing Business and New Computing Services" as the timely theme of APNOMS 2009. Contributions from academia, industry and research institutions met these challengeswith173papersubmissions,fromwhich41high-qualitypapers(23.7% of

the submissions) were selected for technical sessions as full papers, and 32 papers were selected as short papers. In addition, we had nine papers in - novation sessions for on-going research. Diverse topics were covered, including Tra?c Trace Engineering, Con?guration and Fault Management, Management of IP-Based Networks, Autonomous and Distributed Control, Sensor Network and P2P Management, Converged Networks and Tra?c Engineering, SLA and QoS Management, Active and Security Management, Wireless and Mobile N- work Management, and Security Management.

This book constitutes the thoroughly refereed joint post-proceedings of the three International Workshops on Grid Middleware, CoreGrid 2006, the UNICORE Summit 2006, and the Workshop on Petascale Computational Biology and Bioinformatics, held in Dresden, Germany, in August/September 2006, in conjunction with Euro-Par 2006, the 12th International Conference on Parallel Computing.

Modeling and Optimization in Software-Defined Networks

8th International Conference, PAM 2007, Louvain-la-Neuve, Belgium, April 5-6, 2007, Proceedings

11th European Symposium on Research in Computer Security, Hamburg, Germany, September 18-20, 2006, Proceedings

18th International Conference, PAM 2017, Sydney, NSW, Australia, March
30-31, 2017, Proceedings
Green Mobile Networks
First International Conference, UBICNET 2017, Bangalore, India, August 3-5,
2017, Proceedings