

Asn 1 Communication Between Heterogeneous Systems

This open access two-volume set LNCS 10980 and 10981 constitutes the refereed proceedings of the 30th International Conference on Computer Aided Verification, CAV 2018, held in Oxford, UK, in July 2018. The 52 full and 13 tool papers presented together with 3 invited papers and 2 tutorials were carefully reviewed and selected from 215

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submissions. The papers cover a wide range of topics and techniques, from algorithmic and logical foundations of verification to practical applications in distributed, networked, cyber-physical, and autonomous systems. They are organized in topical sections on model checking, program analysis using polyhedra, synthesis, learning, runtime verification, hybrid and timed systems, tools, probabilistic systems, static analysis, theory and security, SAT, SMT and decisions procedures, concurrency, and CPS, hardware, industrial applications. Traditional computing concepts are maturing into a new generation of cloud computing systems with

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wide-spread global applications. However, even as these systems continue to expand, they are accompanied by overall performance degradation and wasted resources. Emerging Research in Cloud Distributed Computing Systems covers the latest innovations in resource management, control and monitoring applications, and security of cloud technology. Compiling and analyzing current trends, technological concepts, and future directions of computing systems, this publication is a timely resource for practicing engineers, technologists, researchers, and advanced students interested in the domain of cloud computing.

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th The 14 International Conference on Knowledge-Based and Intelligent Information and Engineering Systems was held during September 8–10, 2010 in Cardiff, UK. The conference was organized by the School of Engineering at Cardiff University, UK and KES International. KES2010 provided an international scientific forum for the presentation of the - sults of high-quality research on a broad range of intelligent systems topics. The c- ference attracted over 360 submissions from 42 countries and 6 continents: Argentina, Australia, Belgium, Brazil, Bulgaria, Canada, Chile, China, Croatia, Czech Republic, Denmark, Finland, France, Germany,

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Greece, Hong Kong ROC, Hungary, India, Iran, Ireland, Israel, Italy, Japan, Korea, Malaysia, Mexico, The Netherlands, New Zealand, Pakistan, Poland, Romania, Singapore, Slovenia, Spain, Sweden, Syria, Taiwan, - nisia, Turkey, UK, USA and Vietnam. The conference consisted of 6 keynote talks, 11 general tracks and 29 invited s- sions and workshops, on the applications and theory of intelligent systems and related areas. The distinguished keynote speakers were Christopher Bishop, UK, Nikola - sabov, New Zealand, Saeid Nahavandi, Australia, Tetsuo Sawaragi, Japan, Yuzuru Tanaka, Japan and Roger Whitaker, UK. Over 240 oral and poster

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presentations provided excellent opportunities for the presentation of interesting new research results and discussion about them, leading to knowledge transfer and generation of new ideas. Extended versions of selected papers were considered for publication in the International Journal of Knowledge-Based and Intelligent Engineering Systems, Engineering Applications of Artificial Intelligence, Journal of Intelligent Manufacturing, and Neural Computing and Applications.

"This book is a collection of widespread research providing relevant theoretical frameworks and research findings on the applications of distributed

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computing innovations to the business, engineering and science fields"--Provided by publisher.

Internet · Telephony · Multimedia

Data Science and Big Data Computing

SDL 2011: Integrating System and Software Modeling

Big Data and Internet of Things: A Roadmap for Smart Environments

Protocol Engineering

Remoting Patterns

This volume contains the proceedings of the 2012 International Conference of Modern Computer Science and Applications (MCSA 2012) which was

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held on September 8, 2012 in Wuhan, China. The MCSA 2012 provides an excellent international forum for sharing knowledge and results in theory, methodology and applications of modern computer science and applications in theoretical and practical aspects.

The introduction of public key cryptography (PKC) was a critical advance in IT security. In contrast to symmetric key cryptography, it enables confidential communication between entities in open networks, in particular the Internet, without prior contact. Beyond this PKC also enables protection techniques that have no analogue in traditional cryptography,

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most importantly digital signatures which for example support Internet security by authenticating software downloads and updates. Although PKC does not require the confidential exchange of secret keys, proper management of the private and public keys used in PKC is still of vital importance: the private keys must remain private, and the public keys must be verifiably authentic. So understanding so-called public key infrastructures (PKIs) that manage key pairs is at least as important as studying the ingenious mathematical ideas underlying PKC. In this book the authors explain the most important concepts underlying PKIs and

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discuss relevant standards, implementations, and applications. The book is structured into chapters on the motivation for PKI, certificates, trust models, private keys, revocation, validity models, certification service providers, certificate policies, certification paths, and practical aspects of PKI. This is a suitable textbook for advanced undergraduate and graduate courses in computer science, mathematics, engineering, and related disciplines, complementing introductory courses on cryptography. The authors assume only basic computer science prerequisites, and they include exercises in all chapters and solutions in an

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appendix. They also include detailed pointers to relevant standards and implementation guidelines, so the book is also appropriate for self-study and reference by industrial and academic researchers and practitioners.

Thirty years ago, the most likely place to find a biologist was standing at a laboratory bench, peering down a microscope, surrounded by flasks of chemicals and petri dishes full of bacteria. Today, you are just as likely to find him or her in a room that looks more like an office, poring over lines of code on computer screens. The use of computers in biology has radically transformed who biologists

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are, what they do, and how they understand life. In Life Out of Sequence, Hallam Stevens looks inside this new landscape of digital scientific work. Stevens chronicles the emergence of bioinformatics—the mode of working across and between biology, computing, mathematics, and statistics—from the 1960s to the present, seeking to understand how knowledge about life is made in and through virtual spaces. He shows how scientific data moves from living organisms into DNA sequencing machines, through software, and into databases, images, and scientific publications. What he reveals is a biology very different from the one of predigital days: a

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biology that includes not only biologists but also highly interdisciplinary teams of managers and workers; a biology that is more centered on DNA sequencing, but one that understands sequence in terms of dynamic cascades and highly interconnected networks. Life Out of Sequence thus offers the computational biology community welcome context for their own work while also giving the public a frontline perspective of what is going on in this rapidly changing field.

This book constitutes the refereed proceedings of the 10th International Workshop on Security and Trust Management, STM 2014, held in Wroclaw,

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Poland, in September 2014, in conjunction with the 19th European Symposium Research in Computer Security, ESORICS 2014. The 11 revised full papers were carefully reviewed and selected from 29 submissions and cover topics as access control, data protection, digital rights, security and trust policies, security and trust in social networks. with examples from the areas of Knowledge Management, e-Commerce and the Semantic Web. First Edition

A Data-Driven History of Bioinformatics

ASN.1 Complete

6th Ada-Europe International Conference on Reliable

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Software Technologies Leuven, Belgium, May 14-18, 2001 Proceedings

10th International Workshop, STM 2014, Wroclaw, Poland, September 10-11, 2014, Proceedings

13th Ada-Europe International Conference on Reliable Software Technologies, Venice, Italy, June 16-20, 2008. Proceedings

Remoting offers developers many ways to customize the communications process, for efficiency, security, performance and power, and allows seamless integration of components running on several computers into a single application. This book exposes the full power of remoting to developers working in

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mixed platform environments in a way that will ensure they have a deep understanding of what remoting is capable of, and how they can make it work the way they want.

A tutorial in the form of a collection of previously published papers and original material that cover current research and development in data communications protocol testing--including test suite generation and practice--and present essential practical experience in harnessing theory for protocol testing. Includes a glossary of terms. Annotation copyright by Book News, Inc., Portland, OR
This book constitutes the refereed proceedings of the

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13th International Conference on Reliable Software Technologies, Ada-Europe 2008, held in Venice, Italy, in June 2008. The 20 revised full papers presented were carefully reviewed and selected from numerous submissions. The conference proceedings published in this volume cover topics ranging from formal verification to real-time systems via concurrency, embedded systems, language technologies, model-driven engineering and applications of Petri Nets. This illuminating text/reference surveys the state of the art in data science, and provides practical guidance on big data analytics. Expert perspectives are provided by authoritative researchers and practitioners from around

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the world, discussing research developments and emerging trends, presenting case studies on helpful frameworks and innovative methodologies, and suggesting best practices for efficient and effective data analytics. Features: reviews a framework for fast data applications, a technique for complex event processing, and agglomerative approaches for the partitioning of networks; introduces a unified approach to data modeling and management, and a distributed computing perspective on interfacing physical and cyber worlds; presents techniques for machine learning for big data, and identifying duplicate records in data repositories; examines enabling technologies and tools

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for data mining; proposes frameworks for data extraction, and adaptive decision making and social media analysis.

Life Out of Sequence

Understanding Formal Methods

Handbook of Network and System Administration

International Tables for Crystallography, Definition and Exchange of Crystallographic Data

Fundamentals of EMS, NMS and OSS/BSS

Computer Aided Verification

This book gathers the proceedings of the 20th International Conference on Advanced Computer Systems 2016, held in Mi?dzyzdroje (Poland) on October 19–21, 2016. Addressing

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topics that include artificial intelligence (AI), software technologies, multimedia systems, IT security and design of information systems, the main purpose of the conference and the book is to create an opportunity to exchange significant insights on this area between science and business. In particular, this expertise concerns the use of hard and soft computational methods for artificial intelligence, image and data processing, and finally, the design of information and security systems. The book contains a collection of carefully selected, peer-reviewed papers, combining high-quality original unpublished research, case studies, and implementation experiences.

This handbook delivers a complete and practice-oriented

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overview of the fundamentals of today's telecommunication networks and the future prospects for next generation networks (NGN). The very clear and concise text is supplemented by many colour illustrations and embedded into a functional four-colour layout.

Covering past, present and future transport networks using three layered planes written by experts in the field. Targeted at both practitioners and academics as a single source to gain an understanding of how transport networks are built and operated Explains technologies enabling the next generation transport networks

Research into the next generation of service architecture techniques has enabled the design, development, and

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implementation of dynamic, adaptive, and autonomic services to enable enterprises to efficiently align information technology with their agile business requirements and foster smart services and seamless enterprise integration.

Handbook of Research on Architectural Trends in Service-Driven Computing explores, delineates, and discusses recent advances in architectural methodologies and development techniques in service-driven computing. This comprehensive publication is an inclusive reference source for organizations, researchers, students, enterprise and integration architects, practitioners, software developers, and software engineering professionals engaged in the research, development, and integration of the next generation of

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computing.

Broadcast Engineer's Reference Book

Frameworks and Methodologies

Trends in Functional Programming

Communication Protocols

Fuzzy Information & Engineering and Operations Research
& Management

30th International Conference, CAV 2018, Held as Part of
the Federated Logic Conference, FloC 2018, Oxford, UK,
July 14-17, 2018, Proceedings, Part II

Information modeling plays an important
role in every level of the enterprise
information system's architecture.

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Modeling allows organizations to adapt and become more efficient, helping top managers and engineers outline tactics to reach strategic objectives, understand organizational needs, and design information systems that are aligned with business goals. *New Perspectives on Information Systems Modeling and Design* is an essential reference source that discusses organizational adaptation through the integration of new information technologies into existing processes and underlying supporting applications.

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Featuring research on topics such as application integration, change management, and mobile process activities, this book is ideally designed for managers, researchers, system developers, entrepreneurs, graduate-level students, business professionals, information system engineers, and academicians seeking coverage on emerging technological developments and practical solutions for system modeling and design.

Over the past two decades, we have witnessed unprecedented innovations in the

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development of miniaturized electromechanical devices and low-power wireless communication making practical the embedding of networked computational devices into a rapidly widening range of material entities. This trend has enabled the coupling of physical objects and digital information into cyber-physical systems and it is widely expected to revolutionize the way resource computational consumption and provision will occur. Specifically, one of the core ingredients of this vision, the so-called

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Internet of Things (IoT), demands the provision of networked services to support interaction between conventional IT systems with both physical and artificial objects. In this way, IoT is seen as a combination of several emerging technologies, which enables the transformation of everyday objects into smart objects. It is also perceived as a paradigm that connects real world with digital world. The focus of this book is exactly on the novel collective and computational intelligence technologies

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that will be required to achieve this goal. While, one of the aims of this book is to discuss the progress made, it also prompts future directions on the utilization of inter-operable and cooperative next generation computational technologies, which supports the IoT approach, that being an advanced functioning towards an integrated collective intelligence approach for the benefit of various organizational settings.

Ontological Engineering refers to the set

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of activities that concern the ontology development process, the ontology life cycle, the methods and methodologies for building ontologies, and the tool suites and languages that support them. During the last decade, increasing attention has been focused on ontologies and Ontological Engineering. Ontologies are now widely used in Knowledge Engineering, Artificial Intelligence and Computer Science; in applications related to knowledge management, natural language processing, e-commerce, intelligent integration

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information, information retrieval, integration of databases, b- informatics, and education; and in new emerging fields like the Semantic Web. Primary goals of this book are to acquaint students, researchers and developers of information systems with the basic concepts and major issues of Ontological Engineering, as well as to make ontologies more understandable to those computer science engineers that integrate ontologies into their information systems. We have paid special attention to the influence that ontologies

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have on the Semantic Web. Pointers to the Semantic Web appear in all the chapters, but specially in the chapter on ontology languages and tools.

ASN.1, Abstract Syntax Notation Version 1, is a notation that is used in describing messages to be exchanged between communicating application programs. This book is a pure programming tutorial on the fundamentals and features of ASN.1. The purpose of this book is to explain ASN.1 and its encoding rules in easy-to-understand terms. It addresses the subject

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at both an introductory level that is suitable for beginners, and at a more detailed level that is meant for those who seek a deeper understanding of ASN.1 and the encoding rules. Follow-up to last years, ASN.1 Complete by John Larmouth. While Larmouth's book is a comprehensive language reference, this book is a practical programming tutorial.

The Tutorial and Reference

12th International Conference, ICICS 2010,
Barcelona, Spain, December 15-17, 2010
Proceedings

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Distributed Systems

Dr. Dobb's Journal

The Austin Protocol Compiler

Data, Management, and Control Planes

The current and definitive reference broadcast engineers need! Compiled by leading international experts, this authoritative reference work covers every aspect of broadcast technology from camera to transmitter - encompassing subjects from analogue techniques to the latest digital compression and interactive technologies in a single source.

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Written with a minimum of maths, the book provides detailed coverage and quick access to key technologies, standards and practices. This global work will become your number one resource whether you are from an audio, video, communications or computing background. Composed for the industry professional, practicing engineer, technician or sales person looking for a guide that covers the broad landscape of television technology in one handy source, the Broadcast Engineer's Reference Book offers comprehensive and accurate

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technical information. Get this wealth of information at your fingertips! · Utilize extensive illustrations-more than 1200 tables, charts and photographs. · Find easy access to essential technical and standards data. · Discover information on every aspect of television technology. · Learn the concepts and terms every broadcaster needs to know. Learn from the experts on the following technologies: Quantities and Units; Error Correction; Network Technologies; Telco Technologies; Displays; Colourimetry; Audio Systems; Television

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Standards; Colour encoding; Time code; VBI data carriage; Broadcast Interconnect formats; File storage formats; HDTV; MPEG 2; DVB; Data Broadcast; ATSC Interactive TV; encryption systems; Optical systems; Studio Cameras and camcorders; VTRs and Tape Storage; Standards Convertors; TV Studios and Studio Equipment; Studio Lighting and Control; post production systems; Telecines; HDTV production systems; Media Asset Management systems; Electronic News Production Systems; OB vehicles and Mobile Control Rooms;ENG and EFP; Power and

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Battery Systems; R.F. propagation; Service Area Planning; Masts Towers and Antennas; Test and measurement; Systems management; and many more! Related Focal Press titles: Watkinson: Convergence In Broadcast and Communications Media (2001, £59.99 (GBP)/ \$75.95 (USD), ISBN: 0240515099) Watkinson: MPEG Handbook (2001, £35 (GBP)/\$54.99 (USD) ISBN: 0240516567)
This is an excellent introduction to formal methods which will bring anyone who needs to know about this important topic up to speed. It is comprehensive, giving the reader all the

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information needed to explore the field of formal methods in more detail. It offers: a guide to the mathematics required; comprehensive but easy-to-understand introductions to various methods; a run-down of how formal methods can help to develop high-quality systems that come in on time, within budget, and according to requirements.

Communication protocols form the operational basis of computer networks and telecommunication systems. They are behavior conventions that describe how communication

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systems interact with each other, defining the temporal order of the interactions and the formats of the data units exchanged – essentially they determine the efficiency and reliability of computer networks. Protocol Engineering is an important discipline covering the design, validation, and implementation of communication protocols. Part I of this book is devoted to the fundamentals of communication protocols, describing their working principles and implicitly also those of computer networks. The author introduces the concepts of service,

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protocol, layer, and layered architecture, and introduces the main elements required in the description of protocols using a model language. He then presents the most important protocol functions. Part II deals with the description of communication protocols, offering an overview of the various formal methods, the essence of Protocol Engineering. The author introduces the fundamental description methods, such as finite state machines, Petri nets, process calculi, and temporal logics, that are in part used as semantic models for formal description

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techniques. He then introduces one representative technique for each of the main description approaches, among others SDL and LOTOS, and surveys the use of UML for describing protocols. Part III covers the protocol life cycle and the most important development stages, presenting the reader with approaches for systematic protocol design, with various verification methods, with the main implementation techniques, and with strategies for their testing, in particular with conformance and interoperability tests, and the test

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description language TTCN. The author uses the simple data transfer example protocol XDT (eXample Data Transfer) throughout the book as a reference protocol to exemplify the various description techniques and to demonstrate important validation and implementation approaches. The book is an introduction to communication protocols and their development for undergraduate and graduate students of computer science and communication technology, and it is also a suitable reference for engineers and programmers. Most chapters

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contain exercises, and the author's accompanying website provides further online material including a complete formal description of the XDT protocol and an animated simulation visualizing its behavior.

Kubernetes has become an essential part of the daily work for most system, network, and cluster administrators today. But to work effectively together on a production-scale Kubernetes system, they must be able to speak the same language. This book provides a clear guide to the layers of complexity and abstraction that

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come with running a Kubernetes network. Authors James Strong and Vallery Lancey bring you up to speed on the intricacies that Kubernetes has to offer for large container deployments. If you're to be effective in troubleshooting and maintaining a production cluster, you need to be well versed in the abstraction provided at each layer. This practical book shows you how. Learn the Kubernetes networking model Choose the best interface for your clusters from the CNCF Container Network Interface project Explore the networking and

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Linux primitives that power Kubernetes Quickly troubleshoot networking issues and prevent downtime Examine cloud networking and Kubernetes using the three major providers: Amazon Web Services, Google Cloud, and Microsoft Azure Learn the pros and cons of various network tools--and how to select the best ones for your stack

Next Generation Transport Networks Proceedings of the 2012 International Conference of Modern Computer Science and Applications

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***Information and Communications Security
Distributed Computing Innovations for Business,
Engineering, and Science
Foundations of Enterprise, Internet and Realtime
Distributed Object Middleware
14th International Conference, KES 2010, Cardiff,
UK, september 8-10, 2010, Proceedings, Part III***

System administration is about the design, running and maintenance of human-computer systems. Examples of human-computer systems include business enterprises, service institutions and any extensive machinery that is operated by, or interacts with human

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beings. System administration is often thought of as the technological side of a system: the architecture, construction and optimization of the collaborating parts, but it also occasionally touches on softer factors such as user assistance (help desks), ethical considerations in deploying a system, and the larger implications of its design for others who come into contact with it. This book summarizes the state of research and practice in this emerging field of network and system administration, in an anthology of chapters written by the top academics in the field. The authors include members of the IST-

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EMANICS Network of Excellence in Network Management. This book will be a valuable reference work for researchers and senior system managers wanting to understand the essentials of system administration, whether in practical application of a data center or in the design of new systems and data centers. - Covers data center planning and design - Discusses configuration management - Illustrates business modeling and system administration - Provides the latest theoretical developments

An exploration of research in functional programming, featuring an international list

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of contributors. Topics covered include the exploitation of parallelism, compiler optimization techniques and research in type theory. Practice is not ignored, with papers on topics including an assessment of the applicability of the functional language Haskell for business applications, and a paper describing how to automatically repair type errors - a potentially important tool for users of strongly typed languages. This book presents current progress on challenges related to Big Data management by focusing on the particular challenges associated with context-aware data-intensive

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applications and services. The book is a state-of-the-art reference discussing progress made, as well as prompting future directions on the theories, practices, standards and strategies that are related to the emerging computational technologies and their association with supporting the Internet of Things advanced functioning for organizational settings including both business and e-science. Apart from inter-operable and inter-cooperative aspects, the book deals with a notable opportunity namely, the current trend in which a collectively shared and generated content is emerged from

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Internet end-users. Specifically, the book presents advances on managing and exploiting the vast size of data generated from within the smart environment (i.e. smart cities) towards an integrated, collective intelligence approach. The book also presents methods and practices to improve large storage infrastructures in response to increasing demands of the data intensive applications. The book contains 19 self-contained chapters that were very carefully selected based on peer review by at least two expert and independent reviewers and is organized into the three sections reflecting

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the general themes of interest to the IoT and Big Data communities: Section I: Foundations and Principles Section II: Advanced Models and Architectures Section III: Advanced Applications and Future Trends The book is intended for researchers interested in joining interdisciplinary and transdisciplinary works in the areas of Smart Environments, Internet of Things and various computational technologies for the purpose of an integrated collective computational intelligence approach into the Big Data era. There are two groups of researchers who are interested in designing network protocols and

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who cannot (yet) effectively communicate with one another concerning these protocols. The first is the group of protocol verifiers, and the second is the group of protocol implementors. The main reason for the lack of effective communication between these two groups is that these groups use languages with quite different semantics to specify network protocols. On one hand, the protocol verifiers use specification languages whose semantics are abstract, coarse-grained, and with large atom-ity. Clearly, protocol specifications that are developed based on such semantics are easier to prove correct.

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On the other hand, the protocol implementors use specification languages whose semantics are concrete, fine-grained, and with small atomicity. Protocol specifications that are developed based on such - mantics are easier to implement using system programming languages such as C, C++, and Java. To help in closing this communication gap between the group of protocol verifiers and the group of protocol implementors, we present in this monograph a protocol specification language called the Timed Abstract Protocol (or TAP, for short) notation. This notation is greatly influenced by the Abstract Protocol Notation

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in the textbook Elements of Network Protocol Design, written by the second author, Mohamed G. Gouda. The TAP notation has two types of semantics: an abstract semantics that appeals to the protocol verifiers and a concrete semantics that appeals to the protocol implementors group.

Networking and Kubernetes

Hard and Soft Computing for Artificial Intelligence, Multimedia and Security

Software Tools for the Professional Programmer

Security and Trust Management

Internet of Things and Inter-cooperative

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Computational Technologies for Collective Intelligence

Reliable Software Technologies - Ada-Europe 2001

In today's digital environment, distributed systems are increasingly present in a wide variety of environments, ranging from public software applications to critical systems. Distributed Systems introduces the underlying concepts, the associated design techniques and the related security issues. Distributed Systems: Design and Algorithms, is dedicated to engineers, students, and anyone familiar with algorithms and programming, who want to know

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more about distributed systems. These systems are characterized by: several components with one or more threads, possibly running on different processors; asynchronous communications with possible additional assumptions (reliability, order preserving, etc.); local views for every component and no shared data between components. This title presents distributed systems from a point of view dedicated to their design and their main principles: the main algorithms are described and placed in their application context, i.e. consistency management and the way they are used in distributed file-systems.

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ASN.1 Complete teaches you everything you need to know about ASN.1-whether you're specifying a new protocol or implementing an existing one in a software or hardware development project. Inside, the author begins with an overview of ASN.1's most commonly encountered features, detailing and illustrating standard techniques for using them. He then goes on to apply the same practice-oriented approach to all of the notation's other features, providing you with an easy-to-navigate, truly comprehensive tutorial. The book also includes thorough documentation of both the Basic and the Packed Encoding Rules-indispensable

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coverage for anyone doing hand-encoding, and a valuable resource for anyone wanting a deeper understanding of how ASN.1 and ASN.1 tools work. The concluding section takes up the history of ASN.1, in terms of both the evolution of the notation itself and the role it has played in hundreds of protocols and thousands of applications developed since its inception. Features Covers all the features-common and not so common-available to you when writing a protocol specification using ASN.1. Teaches you to read, understand, and implement a specification written using ASN.1. Explains how ASN.1 tools work and how to use them.

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Contains hundreds of detailed examples, all verified using OSS's ASN.1 Tools package. Considers ASN.1 in relation to other protocol specification standards.

Fuzzy Information & Engineering and Operations Research & Management is the monograph from submissions by the 6th International Conference on Fuzzy Information and Engineering (ICFIE2012, Iran) and by the 6th academic conference from Fuzzy Information Engineering Branch of Operation Research Society of China (FIEBORSC2012, Shenzhen,China). It is published by Advances in Intelligent and Soft Computing (AISC). We have

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received more than 300 submissions. Each paper of it has undergone a rigorous review process. Only high-quality papers are included in it containing papers as follows: I Programming and Optimization. II Lattice and Measures. III Algebras and Equation. IV Forecasting, Clustering and Recognition. V Systems and Algorithm. VI Graph and Network. VII Others.

The Sixth International Conference on Reliable Software Technologies, Ada- Europe 2001, took place in Leuven, Belgium, May 14-18, 2001. It was sponsored by Ada-Europe, the European federation of national Ada societies, in

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cooperation with ACM SIGAda, and it was organized by members of the K.U. Leuven and Ada- Belgium. This was the 21st consecutive year of Ada-Europe conferences and the sixth year of the conference focusing on the area of reliable software technologies. The use of software components in embedded systems is almost ubiquitous: planes fly by wire, train signalling systems are now computer based, mobile phones are digital devices, and biological, chemical, and manufacturing plants are controlled by software, to name only a few examples. Also other, non-embedded, mission-critical systems depend more and more upon

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software. For these products and processes, reliability is a key success factor, and often a safety-critical hard requirement. It is well known and has often been experienced that quality cannot be added to software as a mere afterthought. This also holds for reliability. Moreover, the reliability of a system is not due to and cannot be built upon a single technology. A wide range of approaches is needed, the most difficult issue being their purposeful integration. Goals of reliability must be precisely defined and included in the requirements, the development process must be controlled to achieve these goals, and sound

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development methods must be used to fulfill these non-functional requirements.

New Perspectives on Information Systems

Modeling and Design

Conformance Testing Methodologies and

Architectures for OSI Protocols

Abstract Syntax Notation One (ASN.1)

Emerging Research in Cloud Distributed

Computing Systems

15th International SDL Forum Toulouse, France,

July 5-7, 2011. Revised Papers

Introduction to Public Key Infrastructures

International Tables for Crystallography

Volume G, Definition and exchange of

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crystallographic data, describes the standard data exchange and archival file format (the Crystallographic Information File, or CIF) used throughout crystallography. It provides in-depth information vital for small-molecule, inorganic and macromolecular crystallographers, mineralogists, chemists, materials scientists, solid-state physicists and others who wish to record or use the results of a single-crystal or powder diffraction experiment. The volume also provides the detailed data ontology necessary for programmers and database managers to design interoperable computer applications.

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The accompanying CD-ROM contains the CIF dictionaries in machine-readable form and a collection of libraries and utility programs. This volume is an essential guide and reference for programmers of crystallographic software, data managers handling crystal-structure information and practising crystallographers who need to use CIF. This book constitutes the thoroughly refereed post-conference proceedings of the 15th International SDL Forum, SDL 2011, held in Toulouse, France, in July 2011. The 16 revised full papers presented together were carefully reviewed and selected for inclusion

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in the book. The papers cover a wide range of topics such as SDL and related languages; testing; and services and components to a wide range presentations of domain specific languages and applications, going from use maps to train station models or user interfaces for scientific dataset editors for high performance computing.

This book provides comprehensive coverage of the protocols of communication systems. The book is divided into four parts. Part I covers the basic concepts of system and protocol design and specification, overviews the models and languages for informal and

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formal specification of protocols, and describes the specification language SDL. In the second part, the basic notions and properties of communication protocols and protocol stacks are explained, including the treatment of the logical correctness and the performance of protocols. In the third part, many methods for message transfer, on which specific communication protocols are based, are explained and formally specified in the SDL language. The fourth part provides for short descriptions of some specific protocols, mainly used in IP networks, in order to acquaint a reader with the practical

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use of communication methods presented in the third part of the book. The book is relevant to researchers, academics, professionals and students in communications engineering.

Provides comprehensive yet granular coverage of the protocols of communication systems

Allows readers the ability to understand the formal specification of communication

protocols Specifies communication methods and protocols in the specification language SDL,

giving readers practical tools to venture on their own

Annotation. This book constitutes the refereed proceedings of the 12th

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International Conference on Information and Communications Security, ICICS 2010, held in Barcelona, Spain, in December 2010. The 31 revised full papers presented together with an invited talk were carefully reviewed and selected from 135 submissions. The papers are organized in topical sections on access control, public key cryptography and cryptanalysis, security in distributed and mobile systems, cryptanalysis, authentication, fair exchange protocols, anonymity and privacy, software security, proxy cryptosystems, and intrusion detection systems.

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*Principles, Methods and Specifications
Asn.1 Communication Between Heterogeneous
Systems*

*Dr. Dobb's Journal of Software Tools for the
Professional Programmer*

*Handbook of Research on Architectural Trends
in Service-Driven Computing*

*Knowledge-Based and Intelligent Information
and Engineering Systems*

Design and Algorithms

In this era where data and voice services are available at a push of a button, service providers have virtually limitless options for reaching their customers with value-added

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services. The changes in services and underlying networks that this always-on culture creates make it essential for service providers to understand the evolving business logic and appropriate support systems for service delivery, billing, and revenue assurance. Supplying an end-to-end understanding of telecom management layers, Fundamentals of EMS, NMS and OSS/BSS is a complete guide to telecom resource and service management basics. Divided into four sections: Element Management System, Network Management System, Operation/Business Support Systems, and Implementation Guidelines, the book examines standards, best practices, and the industries developing these systems. Each section starts with basics,

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details how the system fits into the telecom management framework, and concludes by introducing more complex concepts. From the initial efforts in managing elements to the latest management standards, the text: Covers the basics of network management, including legacy systems, management protocols, and popular products Deals with OSS/BSS—covering processes, applications, and interfaces in the service/business management layers Includes implementation guidelines for developing customized management solutions The book includes chapters devoted to popular market products and contains case studies that illustrate real-life implementations as well as the interaction between management layers. Complete with

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detailed references and lists of web resources to keep you current, this valuable resource supplies you with the fundamental understanding and the tools required to begin developing telecom management solutions tailored to your customer's needs.

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