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*Concurrency and Scalability for Distributed Systems
Foundations of Scalable Systems Annual Review of Scalable Computing Annual Review of Scalable Computing The Art of Scalability Scalable Fuzzy Algorithms for Data Management and Analysis: Methods and Design Building Scalable Database Applications SAT-Based Scalable Formal Verification Solutions Engineering Scalable, Elastic, and Cost-Efficient Cloud Computing Applications Scalable Video on Demand Scalable Big Data Analytics for Protein Bioinformatics Building Scalable and High-performance Java Web Applications Using J2EE Technology Scalable and Secure Internet Services and Architecture Web Scalability for Startup Engineers Languages, Compilers and Run-Time Systems for Scalable Computers Scalable Uncertainty Management Scalable Uncertainty Management Practical Go Big Data Analytics Peer-to-Peer Systems Handbook of Research on Scalable Computing Technologies Pro Scalable .NET 2.0 Application Designs Designing and Developing Scalable IP Networks Scaling for Success Magnetic Memory Energy Scalable Radio Design Fault-Tolerant Distributed Transactions on Blockchain SCI: Scalable Coherent Interface Scalable Shared Memory Multiprocessors User Centric Media Scalable City Scalable Cloud Ops with Fugue Building Scalable Web Sites Architecting High Performing, Scalable and Available Enterprise Web Applications Real-Time Phoenix Novel Motion Anchoring Strategies for Wavelet-based Highly Scalable Video Compression Private-Public Sector Collaboration to Enhance Community Disaster Resilience Scalable Big Data Architecture Mobile Computing, Applications, and Services Organization Theory*

Scalable Uncertainty Management Nov 04 2021 This book constitutes the refereed proceedings of the Second International Conference on Scalable Uncertainty Management,

SUM 2008, held in Naples, Italy, in October 2008. The 27 revised full papers presented together with the extended abstracts of 3 invited talks/tutorials were carefully reviewed and selected from 42 submissions. The papers address artificial intelligence researchers, database researchers, and practitioners to demonstrate theoretical techniques required to manage the uncertainty that arises in large scale real world applications and to cope with large volumes of uncertainty and inconsistency in databases, the Web, the semantic Web, and artificial intelligence in general.

Scalable Big Data Analytics for Protein Bioinformatics Apr 09 2022 This book presents a focus on proteins and their structures. The text describes various scalable solutions for protein structure similarity searching, carried out at main representation levels and for prediction of 3D structures of proteins. Emphasis is placed on techniques that can be used to accelerate similarity searches and protein structure modeling processes. The content of the book is divided into four parts. The first part provides background information on proteins and their representation levels, including a formal model of a 3D protein structure used in computational processes, and a brief overview of the technologies used in the solutions presented in the book. The second part of the book discusses Cloud services that are utilized in the development of scalable and reliable cloud applications for 3D protein structure similarity searching and protein structure prediction. The third part of the book shows the utilization of scalable Big Data computational frameworks, like Hadoop and Spark, in massive 3D protein structure alignments and identification of intrinsically disordered regions in protein structures. The fourth part of the book focuses on finding 3D protein structure similarities, accelerated with the use of GPUs and the use of multithreading and relational databases for efficient approximate searching on protein secondary structures. The book introduces advanced techniques and computational architectures that benefit from recent achievements in the field of computing and parallelism.

Recent developments in computer science have allowed algorithms previously considered too time-consuming to now be efficiently used for applications in bioinformatics and the life sciences. Given its depth of coverage, the book will be of interest to researchers and software developers working in the fields of structural bioinformatics and biomedical databases.

Energy Scalable Radio Design Dec 25 2020 Smart energy management, both at design time and at run time, is indispensable in modern radios. It requires a careful trade-off between the system's performance, and its power consumption. Moreover, the design has to be dynamically reconfigurable to optimally balance these parameters at run time, depending on the current operating conditions. *Energy Scalable Radio Design* describes and applies an energy-driven design strategy to the design of an energy-efficient, highly scalable, pulsed UWB receiver, suitable for low data rate communication and sub-cm ranging. This book meticulously covers the different design steps and the adopted optimizations: System level air interface selection, architectural/algorithmic design space exploration, algorithmic refinement (acquisition, synchronization and ranging algorithms) and circuit level (RTL) implementation based on the FLEXmodule-concept. Measurement results demonstrate the effectiveness and necessity of the energy-driven design strategy.

Building Scalable and High-performance Java Web Applications Using J2EE Technology Mar 08 2022 Scaling Java enterprise applications beyond just programming techniques--this is the next level. This volume covers all the technologies Java developers need to build scalable, high-performance Web applications. The book also covers servlet-based session management, EJB application logic, database design and integration, and more.

User Centric Media Aug 21 2020 This book constitutes the thoroughly refereed post-conference proceedings of the First International Conference, UCMedia 2009, which was held on 9-11 December 2009 at Hotel Novotel Venezia Mestre Castellana in Venice, Italy. The conference's focus was on

forms and production, delivery, access, discovery and consumption of user centric media. After a thorough review process of the papers received, 23 were accepted from open call for the main conference and 20 papers for the workshops.

Mobile Computing, Applications, and Services Nov 11 2019
This book constitutes the proceedings of the 7th International Conference on Mobile Computing, Applications, and Services (MobiCASE 2015) held in Berlin, Germany, in November 2015. The 16 full and 4 poster papers were carefully reviewed and selected from 43 submissions, and are presented together with 4 papers from the First Workshop on Situation Recognition by Mining Temporal Information (SIREMETI 2015). The conference papers cover the following topics: intelligent caching, activity recognition and crowdsourcing, mobile frameworks, middleware, interactive applications and mobility.

Building Scalable Database Applications Aug 13 2022 A guide to building business and database client/server applications with reusable components, for software engineers and programmers. Business and database models illustrate challenges in manipulating object storage and retrieval from a developer's point of view, emphasizing integration of legacy and relational systems with object-oriented systems. Coverage includes Scoop architecture, designing reusable business components, modeling and implementing associations, and separating the user interface from the business model.

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Engineering Scalable, Elastic, and Cost-Efficient Cloud Computing Applications Jun 11 2022 This book provides an overview of the problems involved in engineering scalable, elastic, and cost-efficient cloud computing services and describes the CloudScale method – a description of rescuing tools and the required steps to exploit these tools. It allows readers to analyze the scalability problem in detail and identify scalability anti-patterns and bottlenecks within an application. With the CloudScale method, software architects can analyze both existing and planned IT services. The method allows readers to answer questions

like: • With an increasing number of users, can my service still deliver acceptable quality of service? • What if each user uses the service more intensively? Can my service still handle it with acceptable quality of service? • What if the number of users suddenly increases? Will my service still be able to handle it? • Will my service be cost-efficient? First the book addresses the importance of scalability, elasticity, and cost-efficiency as vital quality-related attributes of modern cloud computing applications. Following a brief overview of CloudScale, cloud computing applications are then introduced in detail and the aspects that need to be captured in models of such applications are discussed. In CloudScale, these aspects are captured in instances of the ScaledL modeling language. Subsequently, the book describes the forward engineering part of CloudScale, which is applicable when developing a new service. It also outlines the reverse and reengineering parts of CloudScale, which come into play when an existing (legacy) service is modified. Lastly, the book directly focuses on the needs of both business-oriented and technical managers by providing guidance on all steps of implementing CloudScale as well as making decisions during that implementation. The demonstrators and reference projects described serve as a valuable starting point for learning from experience. This book is meant for all stakeholders interested in delivering scalable, elastic, and cost-efficient cloud computing applications: managers, product owners, software architects and developers alike. With this book, they can both see the overall picture as well as dive into issues of particular interest.

Scalable Fuzzy Algorithms for Data Management and Analysis: Methods and Design Sep 14 2022 "This book presents up-to-date techniques for addressing data management problems with logic and memory use"--Provided by publisher.

Languages, Compilers and Run-Time Systems for Scalable Computers Dec 05 2021 *Language, Compilers and Run-time Systems for Scalable Computers* contains 20 articles based on presentations given at the third workshop of the same title, and 13 extended abstracts from the poster session. Starting

with new developments in classical problems of parallel compiler design, such as dependence analysis and an exploration of loop parallelism, the book goes on to address the issues of compiler strategy for specific architectures and programming environments. Several chapters investigate support for multi-threading, object orientation, irregular computation, locality enhancement, and communication optimization. Issues of the interface between language and operating system support are also discussed. Finally, the load balance issues are discussed in different contexts, including sparse matrix computation and iteratively balanced adaptive solvers for partial differential equations. Some additional topics are also discussed in the extended abstracts. Each chapter provides a bibliography of relevant papers and the book can thus be used as a reference to the most up-to-date research in parallel software engineering.

SAT-Based Scalable Formal Verification Solutions Jul 12 2022 This book provides an engineering insight into how to provide a scalable and robust verification solution with ever increasing design complexity and sizes. It describes SAT-based model checking approaches and gives engineering details on what makes model checking practical. The book brings together the various SAT-based scalable emerging technologies and techniques covered can be synergistically combined into a scalable solution.

Organization Theory Oct 11 2019 In *Organization Theory: Management and Leadership Analysis*, Jesper Blomberg explores the fields of organization theory and management, making sense of complex theories and encouraging critical thinking. The book analyses organizations through four theoretical frameworks, offering students a clear structure they can use to understand complex organizational issues: · the structural framework · the Human Resources framework · the power framework · the symbolic framework Each framework is explored by a chapter covering the basics, followed by a more advanced chapter so that students can deepen their understanding. A case study at the end of the book draws together theory and practice, giving students the opportunity to apply what they have learnt to a real

management situation. This book is suitable for undergraduate and postgraduate students studying Organization Theory and Management. The book is complemented by a range of online resources including PowerPoint slides, an Instructor's Manual and Testbank. Jesper Blomberg is Associate Professor at the Stockholm School of Economics, Sweden.

Scaling for Success Feb 24 2021 Managing a high-growth organization requires both strategy and adaptability. Unfortunately, start-up founders and executives seeking to scale up to the next level find all too frequently that growth turns into chaos. Rather than laying the groundwork for the future, organizations get stuck by covering up complex problems with unsustainable band-aids and duct-tape fixes, implementing anecdote-based solutions from the latest tech-industry unicorns or leadership books, and relying on too much on-the-fly learning from inexperienced managers. This book is the definitive guide for leaders of high-growth organizations seeking to understand and execute the people-management principles that are essential to continued success. Combining a wealth of practical experience, well-grounded academic research, and easy-to-apply frameworks, Andrew Bartlow and T. Brad Harris offer a practical toolkit that founders, functional leaders, and managers of people can use to rethink their practices to meet their organizations' needs. They help readers identify the core people-management programs and practices that are best for an organization at its current stage and size while also supporting a foundation for continued development and the capacity to adapt to inevitable surprises. Practical, actionable, and supplemented with numerous diagnostic tools and illustrative examples, *Scaling for Success* is a must-have playbook for organizational leaders pursuing smart and sustainable growth.

Scalable Big Data Architecture Dec 13 2019 This book highlights the different types of data architecture and illustrates the many possibilities hidden behind the term "Big Data", from the usage of No-SQL databases to the deployment of stream analytics architecture, machine

learning, and governance. Scalable Big Data Architecture covers real-world, concrete industry use cases that leverage complex distributed applications, which involve web applications, RESTful API, and high throughput of large amount of data stored in highly scalable No-SQL data stores such as Couchbase and Elasticsearch. This book demonstrates how data processing can be done at scale from the usage of NoSQL datastores to the combination of Big Data distribution. When the data processing is too complex and involves different processing topology like long running jobs, stream processing, multiple data sources correlation, and machine learning, it's often necessary to delegate the load to Hadoop or Spark and use the No-SQL to serve processed data in real time. This book shows you how to choose a relevant combination of big data technologies available within the Hadoop ecosystem. It focuses on processing long jobs, architecture, stream data patterns, log analysis, and real time analytics. Every pattern is illustrated with practical examples, which use the different open source projects such as Logstash, Spark, Kafka, and so on. Traditional data infrastructures are built for digesting and rendering data synthesis and analytics from large amount of data. This book helps you to understand why you should consider using machine learning algorithms early on in the project, before being overwhelmed by constraints imposed by dealing with the high throughput of Big data. Scalable Big Data Architecture is for developers, data architects, and data scientists looking for a better understanding of how to choose the most relevant pattern for a Big Data project and which tools to integrate into that pattern.

Magnetic Memory Jan 26 2021 If you are a semiconductor engineer or a magnetics physicist developing magnetic memory, get the information you need with this, the first book on magnetic memory. From magnetics to the engineering design of memory, this practical book explains key magnetic properties and how they are related to memory performance, characterization methods of magnetic films, and tunneling magnetoresistance effect devices. It also covers memory cell options, array architecture, circuit models, and read-write

engineering issues. You'll understand the soft fail nature of magnetic memory, which is very different from that of semiconductor memory, as well as methods to deal with the issue. You'll also get invaluable problem-solving insights from real-world memory case studies. This is an essential book for semiconductor engineers who need to understand magnetics, and for magnetics physicists who work with MRAM. It is also a valuable reference for graduate students working in electronic/magnetic device research.

Architecting High Performing, Scalable and Available Enterprise Web Applications Apr 16 2020 *Architecting High Performing, Scalable and Available Enterprise Web Applications* provides in-depth insights into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author shares his years of experience in application security, enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques. Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and troubleshooting methods for enterprise application testing, security, caching, production operations and project management Exploration of synergies between techniques and methodologies to achieve end-to-end availability, scalability, performance and security quality attributes 360-degree viewpoint approach for achieving overall quality Practitioner viewpoint on proven patterns, techniques, methodologies, models and best practices. Bulleted summary and tabular representation of concepts for effective understanding Production operations and troubleshooting tips

Annual Review of Scalable Computing Dec 17 2022 Annotation. *Comprehensively discusses significant projects in scalable*

computing in various research organizations around the world.

*Pro Scalable .NET 2.0 Application Designs Apr 28 2021 * Explains how to plan and implement scalable application designs using .NET 2.0 and both traditional and Service Oriented (SOA) models. * Gives detailed overview advice across the whole breadth of the project from platform to application to database in order to provide a comprehensive treatment rather than just focus on one particular issue. * Uses the very latest version of Web Services Enhancements (WSE 3.0) when most competing titles still use the previous version (WSE 2.0 or WSE 1.0) and includes detailed consideration of the new Windows Server System and advises how to select the correct setup for your project.5*

Real-Time Phoenix Mar 16 2020 Give users the real-time experience they expect, by using Elixir and Phoenix Channels to build applications that instantly react to changes and reflect the application's true state. Learn how Elixir and Phoenix make it easy and enjoyable to create real-time applications that scale to a large number of users. Apply system design and development best practices to create applications that are easy to maintain. Gain confidence by learning how to break your applications before your users do. Deploy applications with minimized resource use and maximized performance. Real-time applications come with real challenges - persistent connections, multi-server deployment, and strict performance requirements are just a few. Don't try to solve these challenges by yourself - use a framework that handles them for you. Elixir and Phoenix Channels provide a solid foundation on which to build stable and scalable real-time applications. Build applications that thrive for years to come with the best-practices found in this book. Understand the magic of real-time communication by inspecting the WebSocket protocol in action. Avoid performance pitfalls early in the development lifecycle with a catalog of common problems and their solutions. Leverage GenStage to build a data pipeline that improves scalability. Break your application before your users do and confidently deploy them. Build a real-world project using solid

application design and testing practices that help make future changes a breeze. Create distributed apps that can scale to many users with tools like Phoenix Tracker. Deploy and monitor your application with confidence and reduce outages. Deliver an exceptional real-time experience to your users, with easy maintenance, reduced operational costs, and maximized performance, using Elixir and Phoenix Channels. **What You Need:** You'll need Elixir 1.9+ and Erlang/OTP 22+ installed on a Mac OS X, Linux, or Windows machine.

Concurrency and Scalability for Distributed Systems Feb 19 2023 In many systems, scalability becomes the primary driver as the user base grows. Attractive features and high utility breed success, which brings more requests to handle and more data to manage. But organizations reach a tipping point when design decisions that made sense under light loads suddenly become technical debt. This practical book covers design approaches and technologies that make it possible to scale an application quickly and cost-effectively. Author Ian Gorton takes software architects and developers through the principles of foundational distributed systems. You'll explore the essential ingredients of scalable solutions, including replication, state management, load balancing, and caching. Specific chapters focus on the implications of scalability for databases, microservices, and event-based streaming systems. You'll focus on: **Foundations of scalable systems:** Learn basic design principles of scalability, its costs, and architectural tradeoffs **Designing scalable services:** Dive into service design, caching, asynchronous messaging, serverless processing, and microservices **Designing scalable data systems:** Learn data system fundamentals, NoSQL databases, and eventual consistency versus strong consistency **Designing scalable streaming systems:** Explore stream processing systems and scalable event-driven processing.

Building Scalable Web Sites May 18 2020 Learn the tricks of the trade so you can build and architect applications that scale quickly--without all the high-priced headaches and service-level agreements associated with enterprise app servers and proprietary programming and database products.

Culled from the experience of the Flickr.com lead developer, *Building Scalable Web Sites* offers techniques for creating fast sites that your visitors will find a pleasure to use. Creating popular sites requires much more than fast hardware with lots of memory and hard drive space. It requires thinking about how to grow over time, how to make the same resources accessible to audiences with different expectations, and how to have a team of developers work on a site without creating new problems for visitors and for each other. Presenting information to visitors from all over the world Integrating email with your web applications Planning hardware purchases and hosting options to have as much as you need without breaking your wallet Partitioning and distributing databases to support large datasets and simultaneous transactions Monitoring your applications to find and clear bottlenecks * Providing services APIs and using services from other providers to increase your site's reach and capabilities Whether you're starting a small web site with hopes of growing big or you already have a large system that needs maintenance, you'll find *Building Scalable Web Sites* to be a library of ideas for making things work.

Peer-to-Peer Systems Jun 30 2021 Peer-to-peer has emerged as a promising new paradigm for large-scale distributed computing. The International Workshop on Peer-to-Peer Systems (IPTPS) aimed to provide a forum for researchers active in peer-to-peer computing to discuss the state of the art and to identify key research challenges. The goal of the workshop was to examine peer-to-peer technologies, applications, and systems, and also to identify key research issues and challenges that lie ahead. In the context of this workshop, peer-to-peer systems were characterized as being decentralized, self-organizing distributed systems, in which all or most communication is symmetric. The program of the workshop was a combination of invited talks, presentations of position papers, and discussions covering novel peer-to-peer applications and systems, peer-to-peer infrastructure, security in peer-to-peer systems, anonymity and anti-censorship, performance of peer-to-peer systems, and workload characterization for peer-to-peer systems. To ensure a

productive workshop environment, attendance was limited to 55 participants. Each potential participant was asked to submit a position paper of 5 pages that exposed a new problem, advocated a specific solution, or reported on actual experience. We received 99 submissions and were able to accept 31. Participants were invited based on the originality, technical merit, and topical relevance of their submissions, as well as the likelihood that the ideas expressed in their submissions would lead to insightful technical discussions at the workshop.

Practical Go Sep 02 2021 Step-by-step instruction on writing your first production-ready servers with Golang Google's Go language, otherwise known as Golang, is a fast, simple, and reliable language that is rapidly becoming a highly popular choice for developers of all kinds. With particular utility in cloud-native environments, Golang is being adopted in major projects like Docker and Ethereum thanks to its user-friendly features, like concurrency and easy deployment. In *Practical Golang: Building Scalable Network and Non-Network Applications*, expert coder and devops engineer Amit Saha delivers a step-by-step guide to writing production-ready HTTP 1.1, HTTP2, RPC, and TCP/UDP servers. Walking you through the entire process of learning this already straightforward language, from your first application to your first deployed server, the authors rely solely on the most popular open-source projects to ensure you can apply the book's advice in any cloud environment. In this book, you'll get: *Fulsome descriptions of best practices on load balancing, scaling, and failure handling Stepwise guidance on writing an HTTP service from scratch using only Golang's standard library Easy tutorials on implementing RPC and HTTP interfaces for RPC services Straightforward instructions on using SQL databases Perfect for software developers, devops engineers, and other programming professionals, Practical Golang is also an indispensable resource for anyone who wants to go beyond the basics of Golang and deploy robust and practical servers.*

Foundations of Scalable Systems Jan 18 2023 In many systems, scalability becomes the primary driver as the user

base grows. Attractive features and high utility breed success, which brings more requests to handle and more data to manage. But organizations reach a tipping point when design decisions that made sense under light loads suddenly become technical debt. This practical book covers design approaches and technologies that make it possible to scale an application quickly and cost-effectively. Author Ian Gorton takes software architects and developers through the foundational principles of distributed systems. You'll explore the essential ingredients of scalable solutions, including replication, state management, load balancing, and caching. Specific chapters focus on the implications of scalability for databases, microservices, and event-based streaming systems. You will focus on: Foundations of scalable systems: Learn basic design principles of scalability, its costs, and architectural tradeoffs Designing scalable services: Dive into service design, caching, asynchronous messaging, serverless processing, and microservices Designing scalable data systems: Learn data system fundamentals, NoSQL databases, and eventual consistency versus strong consistency Designing scalable streaming systems: Explore stream processing systems and scalable event-driven processing

Scalable Video on Demand May 10 2022 In recent years, the proliferation of available video content and the popularity of the Internet have encouraged service providers to develop new ways of distributing content to clients. Increasing video scaling ratios and advanced digital signal processing techniques have led to Internet Video-on-Demand applications, but these currently lack efficiency and quality. Scalable Video on Demand: Adaptive Internet-based Distribution examines how current video compression and streaming can be used to deliver high-quality applications over the Internet. In addition to analysing the problems of client heterogeneity and the absence of Quality of Service in the Internet, this book: assesses existing products and encoding formats; presents new algorithms and protocols for optimised on-line video streaming architectures; includes real-world application examples and experiments; sets out a

practical 'toolkit' for Dynamically Reconfigurable Multimedia Distribution Systems. Written by an expert in the field of video distribution, Scalable Video on Demand: Adaptive Internet-based Distribution provides a novel approach to the design and implementation of Video-on-Demand systems for Software Engineers and researchers. It will also be useful for graduate students following Electronic Engineering and Computer Science courses.

Scalable City Jul 20 2020 Exhibition catalog for Scalable City, Installation by Sheldon Brown at gallery@calit2. Includes essays by Eduardo Navas, Bruce Sterling, Geoff Ryman, Kim Stanley Robinson and Sheldon Brown.

Novel Motion Anchoring Strategies for Wavelet-based Highly Scalable Video Compression Feb 13 2020 A key element of any modern video codec is the efficient exploitation of temporal redundancy via motion-compensated prediction. In this book, a novel paradigm of representing and employing motion information in a video compression system is described that has several advantages over existing approaches. Traditionally, motion is estimated, modelled, and coded as a vector field at the target frame it predicts. While this "prediction-centric" approach is convenient, the fact that the motion is "attached" to a specific target frame implies that it cannot easily be re-purposed to predict or synthesize other frames, which severely hampers temporal scalability. In light of this, the present book explores the possibility of anchoring motion at reference frames instead. Key to the success of the proposed "reference-based" anchoring schemes is high quality motion inference, which is enabled by the use of a more "physical" motion representation than the traditionally employed "block" motion fields. The resulting compression system can support computationally efficient, high-quality temporal motion inference, which requires half as many coded motion fields as conventional codecs. Furthermore, "features" beyond compressibility – including high scalability, accessibility, and "intrinsic" framerate upsampling – can be seamlessly supported. These features are becoming ever more relevant as the way video is consumed continues shifting from the

traditional broadcast scenario to interactive browsing of video content over heterogeneous networks. This book is of interest to researchers and professionals working in multimedia signal processing, in particular those who are interested in next-generation video compression. Two comprehensive background chapters on scalable video compression and temporal frame interpolation make the book accessible for students and newcomers to the field.

Scalable Uncertainty Management Oct 03 2021 This book constitutes the refereed proceedings of the 14th International Conference on Scalable Uncertainty Management, SUM 2020, which was held in Bozen-Bolzano, Italy, in September 2020. The 12 full, 7 short papers presented in this volume were carefully reviewed and selected from 30 submissions. Besides that, the book also contains 2 abstracts of invited talks, 2 tutorial papers, and 2 PhD track papers. The conference aims to gather researchers with a common interest in managing and analyzing imperfect information from a wide range of fields, such as artificial intelligence and machine learning, databases, information retrieval and data mining, the semantic web and risk analysis. Due to the Corona pandemic SUM 2020 was held as a virtual event.

Scalable Cloud Ops with Fugue Jun 18 2020 Harness the promise of the cloud with Fugue, an operating system built for the cloud. Program cloud infrastructure in a fraction of the time it takes with current tools, debug infrastructure at design time, and centralize your change control process. Written by the Fugue development team, this is the definitive resource to scalable cloud operations with Fugue. Cloud computing represents the greatest shift in computing in more than a decade. But the promise of the cloud is unrealized. The cloud isn't just about shedding the physical data center - it's about shedding the data center mindset. Cloud infrastructure can be controlled via API calls. This means we can view it as a giant general-purpose compute - and program it. That's where the Fugue operating system and the Ludwig language come in. They automate the creation, operation, enforcement, and termination of infrastructure in

the cloud. This definitive *Fugue* guide starts with a simple website and moves on to a more robust application with evolving infrastructure needs as you walk through the steps to harnessing the cloud. With Amazon Web Services, launch infrastructure quickly. Debug in design time. Automate deployment and enforcement of your cloud. Centralize your change control process and automate continuous auditing. Rest easy knowing configuration drift, unwanted changes, and infrastructure quality issues are addressed, continuously and automatically. Hands-on chapters lead you through creating this application step by step. If you're a software engineer, architect, DevOps professional, or enterprise team leader using cloud computing for running applications and websites, this book will change the way you view cloud computing. What You Need: An Amazon Web Services (AWS) account and a basic familiarity with the AWS Console.

SCI: Scalable Coherent Interface Oct 23 2020 Scalable Coherent Interface (SCI) is an innovative interconnect standard (ANSI/IEEE Std 1596-1992) addressing the high-performance computing and networking domain. This book describes in depth one specific application of SCI: its use as a high-speed interconnection network (often called a system area network, SAN) for compute clusters built from commodity workstation nodes. The editors and authors, coming from both academia and industry, have been instrumental in the SCI standardization process, the development and deployment of SCI adapter cards, switches, fully integrated clusters, and software systems, and are closely involved in various research projects on this important interconnect. This thoroughly cross-reviewed state-of-the-art survey covers the complete hardware/software spectrum of SCI clusters, from the major concepts of SCI, through SCI hardware, networking, and low-level software issues, various programming models and environments, up to tools and application experiences.

The Art of Scalability Oct 15 2022 A Comprehensive, Proven Approach to IT Scalability from Two Veteran Software, Technology, and Business Executives In *The Art of Scalability*, AKF Partners cofounders Martin L. Abbott and

Michael T. Fisher cover everything IT and business leaders must know to build technology infrastructures that can scale smoothly to meet any business requirement. Drawing on their unparalleled experience managing some of the world's highest-transaction-volume Web sites, the authors provide detailed models and best-practice approaches available in no other book. Unlike previous books on scalability, *The Art of Scalability* doesn't limit its coverage to technology. Writing for both technical and nontechnical decision-makers, this book covers everything that impacts scalability, including architecture, processes, people, and organizations. Throughout, the authors address a broad spectrum of real-world challenges, from performance testing to IT governance. Using their tools and guidance, organizations can systematically overcome obstacles to scalability and achieve unprecedented levels of technical and business performance. Coverage includes Staffing the scalable organization: essential organizational, management, and leadership skills for technical leaders Building processes for scale: process lessons from hyper-growth companies, from technical issue resolution to crisis management Making better "build versus buy" decisions Architecting scalable solutions: powerful proprietary models for identifying scalability needs and choosing the best approaches to meet them Optimizing performance through caching, application and database splitting, and asynchronous design Scalability techniques for emerging technologies, including clouds and grids Planning for rapid data growth and new data centers Evolving monitoring strategies to tightly align with customer requirements

Fault-Tolerant Distributed Transactions on Blockchain Nov 23 2020 Since the introduction of Bitcoin—the first widespread application driven by blockchain—the interest of the public and private sectors in blockchain has skyrocketed. In recent years, blockchain-based fabrics have been used to address challenges in diverse fields such as trade, food production, property rights, identity-management, aid delivery, health care, and fraud prevention. This widespread interest follows from fundamental concepts

on which blockchains are built that together embed the notion of trust, upon which blockchains are built. 1. Blockchains provide data transparency. Data in a blockchain is stored in the form of a ledger, which contains an ordered history of all the transactions. This facilitates oversight and auditing. 2. Blockchains ensure data integrity by using strong cryptographic primitives. This guarantees that transactions accepted by the blockchain are authenticated by its issuer, are immutable, and cannot be repudiated by the issuer. This ensures accountability. 3. Blockchains are decentralized, democratic, and resilient. They use consensus-based replication to decentralize the ledger among many independent participants. Thus, it can operate completely decentralized and does not require trust in a single authority. Additions to the chain are performed by consensus, in which all participants have a democratic voice in maintaining the integrity of the blockchain. Due to the usage of replication and consensus, blockchains are also highly resilient to malicious attacks even when a significant portion of the participants are malicious. It further increases the opportunity for fairness and equity through democratization. These fundamental concepts and the technologies behind them—a generic ledger-based data model, cryptographically ensured data integrity, and consensus-based replication—prove to be a powerful and inspiring combination, a catalyst to promote computational trust. In this book, we present an in-depth study of blockchain, unraveling its revolutionary promise to instill computational trust in society, all carefully tailored to a broad audience including students, researchers, and practitioners. We offer a comprehensive overview of theoretical limitations and practical usability of consensus protocols while examining the diverse landscape of how blockchains are manifested in their permissioned and permissionless forms.

Scalable Shared Memory Multiprocessors Sep 21 2020 The workshop on Scalable Shared Memory Multiprocessors took place on May 26 and 27 1990 at the Stouffer Madison Hotel in Seattle, Washington as a prelude to the 1990 International

Symposium on Computer Architecture. About 100 participants listened for two days to the presentations of 22 invited speakers. The motivation for this workshop was to promote the free exchange of ideas among researchers working on shared-memory multiprocessor architectures. There was ample opportunity to argue with speakers, and certainly participants did not refrain a bit from doing so. Clearly, the problem of scalability in shared-memory multiprocessors is still a wide-open question. We were even unable to agree on a definition of "scalability". Authors had more than six months to prepare their manuscript, and therefore the papers included in this proceedings are refinements of the speakers' presentations, based on the criticisms received at the workshop. As a result, 17 authors contributed to these proceedings. We wish to thank them for their diligence and care. The contributions in these proceedings can be partitioned into four categories 1. Access Order and Synchronization 2. Performance 3. Cache Protocols and Architectures 4. Distributed Shared Memory Particular topics on which new ideas and results are presented in these proceedings include: efficient schemes for combining networks, formal specification of shared memory models, correctness of trace-driven simulations, synchronization, various coherence protocols, .

Private-Public Sector Collaboration to Enhance Community Disaster Resilience Jan 14 2020 The terrorist attacks of September 11, 2001 (9/11) on the United States prompted a rethinking of how the United States prepares for disasters. Federal policy documents written since 9/11 have stressed that the private and public sectors share equal responsibility for the security of the nation's critical infrastructure and key assets. Private sector entities have a role in the safety, security, and resilience of the communities in which they operate. Incentivizing the private sector to expend resources on community efforts remains challenging. Disasters in the United States since 9/11 (e.g., Hurricane Katrina in 2005) indicate that the nation has not yet been successful in making its communities

resilient to disaster. In this book, the National Research Council assesses the current states of the art and practice in private-public sector collaboration dedicated to strengthening community disaster resilience.

Designing and Developing Scalable IP Networks Mar 28 2021
Designing and Developing Scalable IP Networks takes a "real world" approach to the issues that it covers. The discussions within this book are rooted in actual designs and real development, not theory or pure engineering papers. It recognises and demonstrates the importance of taking a multi-vendor approach, as existing network infrastructure is rarely homogenous and its focus is upon developing existing IP networks rather than creating them from scratch. This global book based on the author's many years' experience of designing real scalable systems, is an essential reference tool that demonstrates how to build a scalable network, what pitfalls to avoid and what mechanisms are the most successful in real life for engineers building and operating IP networks. It will be ideal for network designers and architects, network engineers and managers as well as project managers and will be of particular relevance to those studying for both JNCIE and CCIE exams.

Annual Review of Scalable Computing Nov 16 2022 A collection of seven long articles, this book comprehensively discusses significant projects in scalable computing in various research organizations around the world. It represents the quantitative and qualitative growth of work in the area. Contents: Experiences with Shared Virtual Memory on System Area Network Clusters: System Simulation, Implementation, and Emulation Average-Case Scalability Analysis of Parallel Computations Parallel IO Prefetching and Caching A C++/Tuple-Lock Implementation for Distributed Objects Static Data Allocation and Load Balancing Techniques for Heterogeneous Systems Building a Global Object Space for Supporting Single System Image on a Cluster A Computation-Centric Multilocation Consistency Model for Shared Memory
Readership: Graduate students, academics and researchers in supercomputing and computer engineering.
Keywords: Clusters; Data Allocation; Global Object Space; Load

Balancing; Location Consistency; Scalability Analysis; Shared Virtual Memory; Tuple Locks; Work Stealing

Handbook of Research on Scalable Computing Technologies May 30 2021 "This book presents, discusses, shares ideas, results and experiences on the recent important advances and future challenges on enabling technologies for achieving higher performance"--Provided by publisher.

Web Scalability for Startup Engineers Jan 06 2022 This invaluable roadmap for startup engineers reveals how to successfully handle web application scalability challenges to meet increasing product and traffic demands. Web Scalability for Startup Engineers shows engineers working at startups and small companies how to plan and implement a comprehensive scalability strategy. It presents broad and holistic view of infrastructure and architecture of a scalable web application. Successful startups often face the challenge of scalability, and the core concepts driving a scalable architecture are language and platform agnostic. The book covers scalability of HTTP-based systems (websites, REST APIs, SaaS, and mobile application backends), starting with a high-level perspective before taking a deep dive into common challenges and issues. This approach builds a holistic view of the problem, helping you see the big picture, and then introduces different technologies and best practices for solving the problem at hand. The book is enriched with the author's real-world experience and expert advice, saving you precious time and effort by learning from others' mistakes and successes. Language-agnostic approach addresses universally challenging concepts in Web development/scalability--does not require knowledge of a particular language Fills the gap for engineers in startups and smaller companies who have limited means for getting to the next level in terms of accomplishing scalability Strategies presented help to decrease time to market and increase the efficiency of web applications

Scalable and Secure Internet Services and Architecture Feb 07 2022 Scalable and Secure Internet Services and Architecture provides an in-depth analysis of many key scaling technologies. Topics include: server clusters and

load balancing; QoS-aware resource management; server capacity planning; Web caching and prefetching; P2P overlay network; mobile code and security; and mobility support for adaptive grid computing. The author discusses each topic by first defining a problem, then reviewing current representative approaches for solving it. He then describes in detail the underlying principles of the technologies and the application of these principles, along with balanced coverage of concepts and engineering trade-offs. The book demonstrates the effectiveness of the technologies via rigorous mathematical modeling and analysis, simulation, and practical implementations. It blends technologies in a unified framework for scalable and secure Internet services, delivering a systematic treatment based upon the author's cutting-edge research experience. This volume describes in breadth and depth advanced scaling technologies that support media streaming, e-commerce, grid computing, personalized content delivery, distributed file sharing, network management, and other Internet applications.

Big Data Analytics Aug 01 2021 This book constitutes the thoroughly refereed conference proceedings of the Second International Conference on Big Data Analytics, BDA 2013, held in Mysore, India, in December 2013. The 13 revised full papers were carefully reviewed and selected from 49 submissions and cover topics on mining social media data, perspectives on big data analysis, graph analysis, big data in practice.

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