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access to application data,”
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The high-end visualization
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and applied in this effort

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Versa Networks, the recognized secure access service edge (SASE) leader, today announced that Gartner has recognized it as a Visionary in the 2021 Magic Quadrant for Network Firewalls¹ report.

Versa Networks is Recognized as a Visionary in the Gartner® Magic Quadrant™ for Network Firewalls

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in airspace security and defense for detecting and defeating dangerous drones, today announced its ...

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The rapid movement of data to the cloud, the sharp rise in the amount of east-west traffic and the broadening adoption of modern applications like ...

Startup Rips The Switch Out Of High Performance Networks Inc. announced that it had enhanced the Cadence Voltus IC Power Integrity Solution with an extensively parallel

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(XP) algorithm option
employing distributed
processing technology for
power grid ...

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This article is the first in
a three-part series seeking
to clarify what a digital
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how models and twins are
used, and some techniques
that can ...

Understanding the digital twin, part 1

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bacteria, rigged up as a distributed computing system, might help realize synthetic biology's loftier goals.

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I/O systems become fast and integrated

Open RAN networks have

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crossed the chasm and are here to stay, enabling wireless best of breed RAN networks to be deployed faster and at lower costs.

Open RAN Has Crossed the Chasm

TigerGraph has announced its next major product release, TigerGraph 3.2. It is a release that includes more than 40 critical enterprise features. It ...

TigerGraph Delivers Latest Large-Scale, Enterprise-Grade Graph Solution to Meet Ever-Growing Customer and Market Demand

This project, led by Sandia National Laboratory and

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supported by the National
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will accelerate Quasi Static
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Resolution Comprehensive
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parallel distributed
processing becomes a
technical ... IT & telecom,
chemicals and advanced
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natural-language processing,
(discourse and dialogue,
generation, information
extraction, summarization),
systems (parallel and
distributed computing, grid
and volunteer computing,

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Graduate Programs

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parallel processing
capability in each ...

Computer architecture deals with the physical configuration, logical structure, formats, protocols, and operational sequences for processing data, controlling the configuration, and controlling the operations over a computer. It also encompasses word lengths, instruction codes, and the interrelationships among the main parts of a computer or group of computers. This two-volume set offers a comprehensive coverage of

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the field of computer organization and architecture.

The field of parallel and distributed computing is undergoing changes at a breathtaking pace. Networked computers are now omnipresent in virtually every application, from games to sophisticated space missions. The increasing complexity, heterogeneity, largeness, and dynamism of the emerging pervasive environments and associated applications are challenging the advancement of the parallel and distributed computing paradigm. Many novel infrastructures have

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been or are being created to provide the necessary computational fabric for realising parallel and distributed applications from diverse domains. New models and tools are also being proposed to evaluate and predict the quality of these complicated parallel and distributed systems. Current and recent past efforts, made to provide the infrastructures and models for such applications, have addressed many underlying complex problems and have thus resulted in new tools and paradigms for effectively realising parallel and distributed systems. This book showcases

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these novel tools and approaches with inputs from relevant experts.

This book constitutes the proceedings of the 24th International Conference on Parallel and Distributed Computing, Euro-Par 2018, held in Turin, Italy, in August 2018. The 57 full papers presented in this volume were carefully reviewed and selected from 194 submissions. They were organized in topical sections named: support tools and environments; performance and power modeling, prediction and evaluation; scheduling and load balancing; high

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performance architectres
and compilers; parallel and
distributed data management
and analytics; cluster and
cloud computing; distributed
systems and algorithms;
parallel and distributed
programming, interfaces, and
languages; multicore and
manycore methods and tools;
theory and algorithms for
parallel computation and
networking; parallel
numerical methods and
applications; and
accelerator computing for
advanced applications.

Distributed and Cloud
Computing: From Parallel
Processing to the Internet
of Things offers complete

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coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging,

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migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more

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available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing

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vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

This book constitutes the refereed proceedings of the 6th International Workshop on Advanced Parallel Processing Technologies, APPT 2005, held in Hong Kong, China in September 2005. The 55 revised full

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papers presented were carefully reviewed and selected from over 220 submissions. All current aspects in parallel and distributed computing are addressed ranging from hardware and software issues to algorithmic aspects and advanced applications. The papers are organized in topical sections on architecture, algorithm and theory, system and software, grid computing, networking, and applied technologies.

This book constitutes the refereed proceedings of the 9th International Symposium on Advanced Parallel Processing Technologies,

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APPT 2011, held in Shanghai, China, in September 2011.

The 13 revised full papers presented were carefully reviewed and selected from 40 submissions. The papers are organized in topical sections on parallel distributed system architectures, architecture, parallel application and software, distributed and cloud computing.

Topics in Parallel and Distributed Computing provides resources and guidance for those learning PDC as well as those teaching students new to the discipline. The pervasiveness of computing

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devices containing multicore CPUs and GPUs, including home and office PCs, laptops, and mobile devices, is making even common users dependent on parallel processing. Certainly, it is no longer sufficient for even basic programmers to acquire only the traditional sequential programming skills. The preceding trends point to the need for imparting a broad-based skill set in PDC technology. However, the rapid changes in computing hardware platforms and devices, languages, supporting programming environments, and research advances, poses a challenge both for

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newcomers and seasoned computer scientists. This edited collection has been developed over the past several years in conjunction with the IEEE technical committee on parallel processing (TCPP), which held several workshops and discussions on learning parallel computing and integrating parallel concepts into courses throughout computer science curricula. Contributed and developed by the leading minds in parallel computing research and instruction Provides resources and guidance for those learning PDC as well as those teaching students new to the

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discipline Succinctly addresses a range of parallel and distributed computing topics Pedagogically designed to ensure understanding by experienced engineers and newcomers Developed over the past several years in conjunction with the IEEE technical committee on parallel processing (TCPP), which held several workshops and discussions on learning parallel computing and integrating parallel concepts

It is our pleasure to present the papers accepted

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and presented at the 5th International School and Symposium on Advanced Distributed Systems (ISSADS) in this LNCS volume. The symposium was held in the city of Guadalajara, Mexico from January 24 to 28, 2005. The organization team was composed of members of CINVESTAV Guadalajara, Rostock University in Germany, the CUCEI and CUCEA campuses of Guadalajara University, and Instituto Tecnol ´ ogico y de Estudios Superiores de Occidente, ITESO. The symposium is already a well-established annual meeting, at which scientists and people from the industrial world meet and

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discuss the progress of applications and the theory of distributed systems in a forum during the last week of January. This year, more than 250 people from 3 continents attended the conference. Most of them are scientists, teachers, students and engineers from the local industry. The papers presented in the sessions of the symposium cover not only the subjects of distributed systems from the system level and applications, but also contributions from the area of theory and arti?cial intelligence concepts. These papers were selected out of more than 100 submissions.

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There was a selection filter in which each paper was evaluated by at least three members of the International Program Committee, who came from research institutions of good reputation all over the world.

This book constitutes the refereed proceedings of the 8th International Workshop on Advanced Parallel Processing Technologies, APPT 2009, held in Rapperswil, Switzerland, in August 2009. The 36 revised full papers presented were carefully reviewed and selected from 76 submissions. All current aspects in parallel and

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distributed computing are addressed ranging from hardware and software issues to algorithmic aspects and advanced applications. The papers are organized in topical sections on architecture, graphical processing unit, grid, grid scheduling, mobile application, parallel application, parallel libraries and performance.

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