

Autonomic Management Of Virtualized Resources In Cloud

8th International Conference, PPAM 2009, Wroclaw, Poland, September 13-16, 2009, Proceedings
 Autonomic Application and Resource Management in Virtualized Distributed Computing Systems
 Energy Efficiency in Large Scale Distributed Systems
 Modelling Autonomic Communication Environments
 Architectural and Functional Considerations and Long Term Research
 5th IEEE International Workshop, MACE 2010, Niagara Falls, Canada, October 28, 2010, Proceedings
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 Modelling Autonomic Communications Environments
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LANEY VICTORIA

8th International Conference, PPAM 2009, Wroclaw, Poland, September 13-16, 2009, Proceedings Springer Science & Business Media

This volume constitutes the refereed proceedings of the Confederated International Conferences: Cooperative Information Systems, CoopIS 2015, Ontologies, Databases, and Applications of Semantics, ODBASE 2015, and Cloud and Trusted Computing, C&TC, held as part of

OTM 2015 in October 2015 in Rhodes, Greece. The 30 full papers presented together with 15 short papers were carefully reviewed and selected from 144 initial submissions. The OTM program every year covers data and Web semantics, distributed objects, Web services, databases, information systems, enterprise workflow and collaboration, ubiquity, interoperability, mobility, grid and high-performance computing.
Autonomic Application and Resource Management in Virtualized Distributed Computing Systems
 Springer

Virtual machine technologies are gaining wide acceptance in today's era due to invaluable services in system management, server consolidation, and secure resource containment along with providing requisite application execution environment. Every virtual machine platform reduces dependence on hardware by fully or partially abstracting operating systems enabling flexible control of manipulation or migration of guest machines by manual system administration or reactive/proactive approaches to management. This dissertation focuses on resolving the

resource reservation problem to help define a mathematical model and study interference within multiple virtual machines while trying to achieve load balancing and improve performance efficiency. Our goal is three-pronged. Firstly, we aim to understand the underlying support available for virtual machine migration and pursue new technologies or abstractions to improve efficiency and speed of the data transfer. Secondly, we carefully evaluate all the resources used by VMs for proper functioning and study the synchronization and multiplexing processes underneath which delineate when and where to migrate a virtual machine. Finally, we attempt to deduce the action to perform on running VMs (manipulation or resource configuration) so as to resolve the issue at hand. To achieve these goals, we follow a step-by-step procedure limiting the number of variable parameters and analyze the outcome of focal experiments. The results show that, using RDMA (Remote Direct Memory Access) to perform virtual machine migration can be used only in scenarios where the underlying hardware offers support for such transactions (eg. InfiniBand architecture) and such an abstraction over TCP/IP does not ameliorate efficiency of VM transfers. Further, a utility based function designed to analyze environment and application metrics and project an area of good/bad states on a map would require a plethora of parameters increasing its complexity. Considering VM re-distribution, one can predict the ideal number and time of migration of guest virtual machines on any configuration by gathering statistics from parallel migration for graphical analysis. Parallel VM migration gives us shorter average transfer time and higher latencies per VM. Pinning of virtual CPUs to VMs improves the performance efficiency of applications compared to sharing of CPUs.

Energy Efficiency in Large Scale Distributed Systems

IGI Global
This book and its companion volumes, LNCS volumes 9140, 9141 and 9142, constitute the proceedings of the 6th International Conference on Swarm Intelligence, ICSI 2015 held in conjunction with the Second BRICS Congress on Computational Intelligence, CCI 2015, held in Beijing, China in June 2015. The 161 revised full papers presented were carefully reviewed and selected from 294 submissions. The papers are organized in 28 cohesive sections covering all major topics of swarm intelligence and computational intelligence research and development, such as novel swarm-based

optimization algorithms and applications; particle swarm optimization; ant colony optimization; artificial bee colony algorithms; evolutionary and genetic algorithms; differential evolution; brain storm optimization algorithm; biogeography based optimization; cuckoo search; hybrid methods; multi-objective optimization; multi-agent systems and swarm robotics; Neural networks and fuzzy methods; data mining approaches; information security; automation control; combinatorial optimization algorithms; scheduling and path planning; machine learning; blind sources separation; swarm interaction behavior; parameters and system optimization; neural networks; evolutionary and genetic algorithms; fuzzy systems; forecasting algorithms; classification; tracking analysis; simulation; image and texture analysis; dimension reduction; system optimization; segmentation and detection system; machine translation; virtual management and disaster analysis.

Modelling Autonomic Communication Environments

Springer
This volume constitutes the refereed proceedings of the Third European Conference, ServiceWave 2010, held in Ghent, Belgium, in December 2010. The 15 revised full papers presented were carefully reviewed and selected from 49 submissions. They cover a broad range of subjects related to service-oriented architectures and the underlying cloud infrastructure and are organized in topical sections on cloud computing, service adaptation and identification, infrastructures, applications and mashups, and engineering of service-oriented applications. In addition to the scientific track, 24 extended abstracts of demonstrations covering a wide spectrum of technology and application domains were accepted out of 31 submissions.

Architectural and Functional Considerations and Long Term Research

John Wiley & Sons
This book constitutes the refereed proceedings at PAKDD Workshops 2013, affiliated with the 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) held in Gold Coast, Australia in April 2013. The 47 revised full papers presented were carefully reviewed and selected from 92 submissions. The workshops affiliated with PAKDD 2013 include: Data Mining Applications in Industry and Government (DMAApps), Data Analytics for Targeted Healthcare (DANTH), Quality Issues, Measures of Interestingness and Evaluation of Data Mining Models (QIMIE), Biologically Inspired Techniques for Data Mining

(BDM), Constraint Discovery and Application (CDA), Cloud Service Discovery (CloudSD).

5th IEEE International Workshop, MACE 2010, Niagara Falls, Canada, October 28, 2010, Proceedings Autonomic Application and Resource Management in Virtualized Distributed Computing Systems Under both synthetic and real-world Web workloads the local controller is validated to accurately estimate resource needs (the difference is within 5%) using fuzzy modeling and fuzzy prediction approaches. The global controller for determining virtual machine placement is tested with simulation-based experiments over a wide range of problem sizes and the results show that the multi-objective optimization using genetic algorithm achieve good balance among different objectives, resulting in relatively low values for power consumption, peak temperature, and resource wastage. For the dynamic virtual machine migration problem, experimental evaluations are conducted using a mix of types of workloads to emulate the variety and dynamics of data center workloads. The results indicate that the proposed multi-objective optimization with stabilization significantly reduces unnecessary VM migration and unstable host selection by up to 80% and also improves the application performance by up to 30% and the efficiencies of power usage by up to 20%. The rapid growth of computing systems raises new challenges for centralized management at the global-control level in the proposed two-level architecture. A network of cooperative controllers is proposed in this work, each managing a subset of resources and collectively collaborating to manage the entire system. The proposed network model is validated on a testbed for In-VIGO and the results show that the decentralized and cooperative nature of the system yields a number of desirable properties, including efficiency, robustness, and scalability under a highly dynamic environment. Real-Time Mobile Multimedia Services 10th IFIP/IEEE International Conference on Management, of Multimedia and Mobile Networks and Services, MMNS 2007, San José, USA, October 31 - November 2, 2007, Proceedings

This volume contains the technical papers presented in the seven high-quality workshops associated with the European Conference on Service-Oriented and Cloud Computing, ESOC 2015, held in Taormina, Italy, in September 2015: Third International Workshop on Cloud for IoT (CLIoT 2015), 5th International Workshop on Adaptive Services for the Future

Internet (WAS4FI 2015), Second Workshop on Seamless Adaptive Multi-cloud Management of Service-Based Applications (SeaClouds 2015), First International Workshop on Cloud Adoption and Migration (CloudWay 2015), First International Workshop on Digital Enterprise Architecture and Engineering (IDEA 2015), First Workshop on Federated Cloud Networking (FedCloudNet 2015). Abstracts of the presentations held at the European Projects Forum (EU Projects 2015) are included in the back matter of this volume. The 25 full papers and 6 short papers were carefully reviewed and selected from 48 submissions. They focus on specific topics in service-oriented and cloud computing domains such as limits and /or advantages of existing cloud solutions, Future Internet technologies, efficient and adaptive deployment and management of service-based applications across multiple clouds, novel cloud service migration practices and solutions, digitization of enterprises in the cloud computing era, federated cloud networking services.

5th IEEE International Workshop on IP Operations and Management, IPOM 2005, Barcelona, Spain, October 26-28, 2005, Proceedings KIT Scientific Publishing
Current companies and communities of practice are involved in intensive networking and collaborative systems by a great variety of electronic relations and collaborative interactions. This has resulted in entangled systems that need to be managed efficiently and in an autonomous way, thus facing many issues and challenges. The extensive research produced in this book will help virtual organizations to exploit latest and powerful technologies based on Grid and Wireless infrastructures as well as Cloud computing in order to alleviate complex issues and challenges arisen in networking and collaborative systems, in terms of collaborative applications, resource management, mobility, and security and system resilience. The ultimate aim of the book is to stimulate research that leads to the creation of responsive environments for networking and, at longer-term, the development of adaptive, secure, mobile, and intuitive intelligent systems for collaborative work and learning. Academic researchers, professionals and practitioners in the field will be inspired and put in practice the ideas and experiences proposed in the book in order to evaluate them for their specific research and work.

Euro-Par 2011 Parallel Processing John Wiley & Sons

This book provides a comprehensive

overview of the latest research and standardization progress towards the 5th generation (5G) of mobile communications technology and beyond. It covers a wide range of topics from 5G use cases and their requirements, to spectrum, 5G end-to-end (E2E) system architecture including core network (CN), transport network (TN) and radio access network (RAN) architecture, network slicing, security and network management. It further dives into the detailed functional design and the evaluation of different 5G concepts, and provides details on planned trials and pre-commercial deployments across the globe. While the book naturally captures the latest agreements in 3rd Generation Partnership Project (3GPP) New Radio (NR) Release 15, it goes significantly beyond this by describing the likely developments towards the final 5G system that will ultimately utilize a wide range of spectrum bands, address all envisioned 5G use cases, and meet or exceed the International Mobile Telecommunications (IMT) requirements for the year 2020 and beyond (IMT-2020). *em style="mso-bidi-font-style: normal;"5G System Design: Architectural and Functional Considerations and Long Term Research* is based on the knowledge and consensus from 158 leading researchers and standardization experts from 54 companies or institutes around the globe, representing key mobile network operators, network vendors, academic institutions and regional bodies for 5G. Different from earlier books on 5G, it does not focus on single 5G technology components, but describes the full 5G system design from E2E architecture to detailed functional design, including details on 5G performance, implementation and roll-out.

10th IFIP/IEEE International Conference on Management, of Multimedia and Mobile Networks and Services, MMNS 2007, San José, USA, October 31 - November 2, 2007, Proceedings Springer

This book represents the combined peer-reviewed proceedings of the ninth International Symposium on Intelligent Distributed Computing - IDC'2015, of the Workshop on Cyber Security and Resilience of Large-Scale Systems - WSRL'2015, and of the International Workshop on Future Internet and Smart Networks - FI&SN'2015. All the events were held in Guimarães, Portugal during October 7th-9th, 2015. The 46 contributions published in this book address many topics related to theory and applications of intelligent distributed computing, including: Intelligent

Distributed Agent-Based Systems, Ambient Intelligence and Social Networks, Computational Sustainability, Intelligent Distributed Knowledge Representation and Processing, Smart Networks, Networked Intelligence and Intelligent Distributed Applications, amongst others.

New Network Architectures Springer
Autonomic Application and Resource Management in Virtualized Distributed Computing Systems

Modeling and Prediction of I/O

Performance in Virtualized Environments
Springer Science & Business Media

This book constitutes the refereed proceedings of the Third IEEE International Workshop on Modelling Autonomic Communications Environments, MACE 2008, held on Samos Island, Greece, on September 22-26, 2008, as part of the 4th International Week on Management of Networks and Services, Manweek 2008. The 8 revised full papers and 4 revised short papers presented were carefully reviewed and selected from 22 submissions. The papers are organized in topical sections on autonomic networks, experiences and frameworks; strategies, processes and generation of components; capabilities; and short papers, early work and applied studies.

Modern Principles, Practices, and Algorithms for Cloud Security Springer

This book constitutes the refereed proceedings of the 18th IFIP/IEEE International Workshop on Distributed Systems, Operations and Management, DSOM 2007, held in the course of the 3rd International Week on Management of Networks and Services, Manweek 2007. It covers peer-to-peer management, fault detection and diagnosis, performance tuning and dimensioning, problem detection and mitigation, operations and tools, service accounting and auditing, Web services and management.

Third European Conference, ServiceWave 2010, Ghent, Belgium, December 13-15, 2010, Proceedings Springer

Traditional computing concepts are maturing into a new generation of cloud computing systems with 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.

Emerging and Future Computing Paradigms and Their Impact on the Research, Training, and Design Environments of the Aerospace Workforce Springer Nature

This book constitutes the refereed proceedings of the 5th IEEE International Workshop on IP Operations and Management, IPOM 2005, held in Barcelona, Spain, in October 2005. The 21 revised full papers presented were carefully reviewed and selected for inclusion in the book. They are organized in topical sections on operations and management for VoIP, IMS and managed IP services, management of open interfaces, QoS and pricing in NGNs, autonomic communications, policy-based management, routing and topologies, routing and tools, as well as experiences from testbeds and trials.

Computational Science - ICCS 2008 Springer

This book describes scientific results obtained by project partners and outcomes of research and development activities carried out within the Polish Infrastructure for Information Science Support in the European Research Space PL-Grid (PL-Grid 2011).

Parallel Processing and Applied Mathematics, Part II Springer Nature

This book constitutes the refereed proceedings of the 9th IEEE Workshop on IP Operations and Management, IPOM 2009, held in Venice, Italy, on October 29-30, 2009, as part of the 5th International Week on Management of Networks and Services, Manweek 2009. The 12 revised full papers presented in this volume were carefully reviewed and selected from 35 submissions. The papers are organized in topical sections on management of quality of services and multimedia, network robustness, management of virtual networks, configuration of network resources and applications

Self-* and P2P for Network Management IGI Global

This is the first book entirely devoted to providing a perspective on the state-of-the-art of cloud computing and energy services and the impact on designing sustainable systems. Cloud computing services provide an efficient approach for connecting infrastructures and can support sustainability in different ways. For example, the design of more efficient cloud services can contribute in reducing energy consumption and environmental impact. The chapters in this book address conceptual principles and illustrate the latest achievements and development updates concerning sustainable cloud and energy services. This book serves as a useful reference for advanced undergraduate students, graduate students and practitioners interested in the design, implementation and deployment of sustainable cloud based energy services. Professionals in the areas of power engineering, computer science, and environmental science and engineering will find value in the multidisciplinary approach to sustainable cloud and energy services presented in this book.

COST IC0804 European Conference, EE-LSDS 2013, Vienna, Austria, April 22-24, 2013, Revised Selected Papers Springer
Annotation This book constitutes the proceedings of the 8th International Conference on Parallel Processing and Applied Mathematics, PPAM 2009, held in Wroclaw, Poland, in September 2009.

Confederated International Conferences: CoopIS, ODBASE, and C&TC 2015, Rhodes, Greece, October 26-30, 2015. Proceedings Springer

This volume contains the proceedings of the International Middleware Conference, held in Leuven, Belgium during December 1-4, 2008. This year marked the ninth rendition of this annual conference in its current format initially - opted in 1998, aspiring to serve as the premier venue focusing exclusively on important middleware results. A lot has happened over the intervening 10-year span. Middleware has become pervasive in an

increasingly interconnected world, with its concepts now securely embedded in the notional architectures driving forward the information age. The conference continues to be a focal point for important new initiatives and results for new generations of middleware. With each succeeding year, it has become an even more competitive publishing venue, further extending its selectivity this year as well. Of the 117 submissions, - ly 21 were able to receive acceptance invitations, for an acceptance rate of less than 18%. Competitive indeed. Additionally, these submissions continue to come from all over the globe, spanning authors from 23 countries. A truly worldwide endeavor. But other things have also changed as we turn the corner on the ?rst decade of this conference. In many ways, middleware has achieved signi?cant success where it really counts: in terms of technical innovations, advanced capabilities, successful ideas, and ?elded systems which permeate society, industry, gov- nment, and academia. With this success comes maturity.

14th International Conference on Systems Simulation, Kitakyushu, Japan, October 26-30, 2014. Proceedings Springer

"Future Internet" is a worldwide hot topic. The Internet has become a critical infrastructure for business development and social interactions. However, the immense growth of the Internet has resulted in additional stresses on its architecture, resulting in a network difficult to monitor, understand, and manage due to its huge scale in terms of connected devices and actors (end users, content providers, equipment vendors, etc). This book presents and discusses the ongoing initiatives and experimental facilities for the creation of new Future Internet Architectures using alternative approaches like Clean Slate and Incremental improvements: It considers several possible internet network use scenarios that include seamless mobility, ad hoc networks, sensor networks, internet of things and new paradigms like content and user centric networks.

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