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# Advances in Services Computing

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# Online Advances Service Computing Asia Pacific Proceedings

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## **Online Advances Service Computing Asia Pacific Proceedings:**

*Advanced Computing* Natarajan Meghanathan, B.K. Kaushik, Dhinaharan Nagamalai, 2010-12-14 This volume constitutes the third of three parts of the refereed proceedings of the First International Conference on Computer Science and Information Technology CCSIT 2010 held in Bangalore India in January 2011 The 46 revised full papers presented in this volume were carefully reviewed and selected The papers are organized in topical sections on soft computing such as AI Neural Networks Fuzzy Systems etc distributed and parallel systems and algorithms security and information assurance ad hoc and ubiquitous computing wireless ad hoc networks and sensor networks

**Advances in Secure Computing, Internet Services, and Applications** Tripathy, B.K., Acharjya, D. P., 2013-12-31 Technological advancements have extracted a vast amount of useful knowledge and information for applications and services These developments have evoked intelligent solutions that have been utilized in efforts to secure this data and avoid potential complex problems *Advances in Secure Computing Internet Services and Applications* presents current research on the applications of computational intelligence in order to focus on the challenge humans face when securing knowledge and data This book is a vital reference source for researchers lecturers professors students and developers who have interest in secure computing and recent advanced in real life applications

*Advances in Next Generation Services and Service Architectures* Anand R. Prasad, John F. Buford, Vijay K. Gurbani, 2011 The book is intended to provide readers with a comprehensive reference for the most current developments in the field It offers broad coverage of important topics with eighteen chapters covering both technology and applications written by international experts

**QoS Prediction in Cloud and Service Computing** Yilei Zhang, Michael R. Lyu, 2017-08-02 This book offers a systematic and practical overview of Quality of Service prediction in cloud and service computing Intended to thoroughly prepare the reader for research in cloud performance the book first identifies common problems in QoS prediction and proposes three QoS prediction models to address them Then it demonstrates the benefits of QoS prediction in two QoS aware research areas Lastly it collects large scale real world temporal QoS data and publicly releases the datasets making it a valuable resource for the research community The book will appeal to professionals involved in cloud computing and graduate students working on QoS related problems

**Advanced Multimedia and Ubiquitous Engineering** James J. Park, Laurence T. Yang, Young-Sik Jeong, Fei Hao, 2019-08-21 This book presents the combined proceedings of the 13th International Conference on Multimedia and Ubiquitous Engineering MUE 2019 and the 14th International Conference on Future Information Technology Future Tech 2019 both held in Xi an China April 24 26 2019 The aim of these two meetings was to promote discussion and interaction among academics researchers and professionals in the field of ubiquitous computing technologies These proceedings reflect the state of the art in the development of computational methods involving theory algorithms numerical simulation error and uncertainty analysis and novel applications of new processing techniques in engineering science and other disciplines related to ubiquitous computing

Economic Models for Managing Cloud Services Sajib Mistry, Athman Bouguettaya, Hai Dong, 2018-02-10 The authors introduce both the quantitative and qualitative economic models as optimization tools for the selection of long term cloud service requests The economic models fit almost intuitively in the way business is usually done and maximize the profit of a cloud provider for a long term period The authors propose a new multivariate Hidden Markov and Autoregressive Integrated Moving Average HMM ARIMA model to predict various patterns of runtime resource utilization A heuristic based Integer Linear Programming ILP optimization approach is developed to maximize the runtime resource utilization It deploys a Dynamic Bayesian Network DBN to model the dynamic pricing and long term operating cost A new Hybrid Adaptive Genetic Algorithm HAGA is proposed that optimizes a non linear profit function periodically to address the stochastic arrival of requests Next the authors explore the Temporal Conditional Preference Network TempCP Net as the qualitative economic model to represent the high level IaaS business strategies The temporal qualitative preferences are indexed in a multidimensional k d tree to efficiently compute the preference ranking at runtime A three dimensional Q learning approach is developed to find an optimal qualitative composition using statistical analysis on historical request patterns Finally the authors propose a new multivariate approach to predict future Quality of Service QoS performances of peer service providers to efficiently configure a TempCP Net It discusses the experimental results and evaluates the efficiency of the proposed composition framework using Google Cluster data real world QoS data and synthetic data It also explores the significance of the proposed approach in creating an economically viable and stable cloud market This book can be utilized as a useful reference to anyone who is interested in theory practice and application of economic models in cloud computing This book will be an invaluable guide for small and medium entrepreneurs who have invested or plan to invest in cloud infrastructures and services Overall this book is suitable for a wide audience that includes students researchers and practitioners studying or working in service oriented computing and cloud computing     *Advanced SOA Tools and Applications* Stanisław Ambroszkiewicz, Jerzy Brzeziński, Wojciech Cellary, Adam Grzech, Krzysztof Zieliński, 2013-10-28 This book presents advanced software development tools for construction deployment and governance of Service Oriented Architecture SOA applications Novel technical concepts and paradigms formulated during the research stage and during development of such tools are presented and illustrated by practical usage examples Hence this book will be of interest not only to theoreticians but also to engineers who cope with real life problems Additionally each chapter contains an overview of related work enabling comparison of the proposed concepts with exiting solutions in various areas of the SOA development process This makes the book interesting also for students and scientists who investigate similar issues     **Advanced Research on Electronic Commerce, Web Application, and Communication** Gang Shen, Xiong Huang, 2011-03-31 The two volume set CCIS 143 and CCIS 144 constitutes the refereed proceedings of the International Conference on Electronic Commerce Web Application and Communication ECWAC 2011 held in Guangzhou China in April 2011 The 148 revised full papers presented in both

volumes were carefully reviewed and selected from a large number of submissions Providing a forum for engineers scientists researchers in electronic commerce Web application and communication fields the conference will put special focus also on aspects such as e business e learning and e security intelligent information applications database and system security image and video signal processing pattern recognition information science industrial automation process control user machine systems security integrity and protection as well as mobile and multimedia communications

**Advanced Environments, Tools, and Applications for Cluster Computing** Dan Grigoras,Alex Nicolau,Bernard Toursel,Bertil Folliot,2003-08-01 Started by small group of well known scientists with the aim of sharing knowledge experiences and results on all aspects of cluster computing the initiative of a workshop on cluster computing received more attention after IFIP WG 10.3 and IEEE Romania Section accepted our request for sponsorship Moreover the application for a NATO ARW grant was successful leading to a greater interest in the workshop In this respect we have to say that we chose Romania in order to attract scientists from Central and Eastern European countries and improve the cooperation in the region in the field of cluster computing We had an extremely short time to organize the event but many people joined us and enthusiastically contributed to the process The success of the workshop is wholly due to the hard work of the organizing committee members of the program committee key speakers speakers from industry and authors of accepted papers The workshop consisted of invited and regular paper presentations followed by discussions on many important current and emerging topics ranging from scheduling and load balancing to grids The key speakers devoted their time and efforts to presenting the most interesting results of their research groups and we all thank them for this All papers were peer reviewed by two or three reviewers

**International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD 2024)** Mostafa Ezziyyani,Janusz Kacprzyk,Valentina Emilia Balas,2025-07-11 This book provides a dynamic platform for exploring groundbreaking advancements in intelligent systems for sustainable development It offers readers access to the latest technologies and innovative solutions that address global challenges Bringing together leading academics pioneering researchers and industry leaders fosters knowledge exchange across various fields such as health education agriculture energy and security It enables readers to gain valuable insights build strategic partnerships and contribute to shaping a more sustainable future This book bridges scientific research with practical applications and is ideal for researchers practitioners and decision makers driving progress across multiple disciplines

**Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction** Khosrow-Pour, D.B.A., Mehdi,2018-09-28 As modern technologies continue to develop and evolve the ability of users to adapt with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century Advanced Methodologies and Technologies in Artificial Intelligence Computer Simulation and Human Computer

Interaction provides emerging research in advanced trends in robotics AI simulation and human computer interaction Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciplines such as business and medicine This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation Advances in Energy Systems Peter D. Lund, John Byrne, Reinhard Haas, Damian Flynn, 2019-04-29 A guide to a multi disciplinary approach that includes perspectives from noted experts in the energy and utilities fields Advances in Energy Systems offers a stellar collection of articles selected from the acclaimed journal Wiley Interdisciplinary Review Energy and Environment The journal covers all aspects of energy policy science and technology environmental and climate change The book covers a wide range of relevant issues related to the systemic changes for large scale integration of renewable energy as part of the on going energy transition The book addresses smart energy systems technologies flexibility measures recent changes in the marketplace and current policies With contributions from a list of internationally renowned experts the book deals with the hot topic of systems integration for future energy systems and energy transition This important resource Contains contributions from noted experts in the field Covers a broad range of topics on the topic of renewable energy Explores the technical impacts of high shares of wind and solar power Offers a review of international smart grid policies Includes information on wireless power transmission Presents an authoritative view of micro grids Contains a wealth of other relevant topics Written for energy planners energy market professionals and technology developers Advances in Energy Systems is an essential guide with contributions from an international panel of experts that addresses the most recent smart energy technologies *Proceeding of the 24th International Conference on Industrial Engineering and Engineering Management 2018* George Q. Huang, Chen-Fu Chien, Runliang Dou, 2019-01-12 This book records the new research findings and development in the field of industrial engineering and it will serve as the guidebook for the potential development in industrial engineering and smart manufacturing It gathers the accepted papers from the 24th International conference on Industrial Engineering and Engineering Management held at Central South University of Forestry and Technology in Changsha during May 19 20 2018 The aim of this conference was to provide a high level international forum for experts scholars and entrepreneurs at home and abroad to present the recent advances new techniques and application to promote discussion and interaction among academics researchers and professionals to promote the developments and applications of the related theories and technologies in universities and enterprises and to establish business or research relations to find global partners for future collaboration in the field of Industrial Engineering It addresses diverse themes in smart manufacturing artificial intelligence ergonomics simulation and modeling quality and reliability logistics engineering data mining and other related fields This timely book summarizes and promotes the latest achievements in the field of industrial engineering and related fields over the past year proposing prospects and vision for the further development The GENI

Book Rick McGeer, Mark Berman, Chip Elliott, Robert Ricci, 2016-08-31 This book edited by four of the leaders of the National Science Foundation's Global Environment and Network Innovations GENI project gives the reader a tour of the history architecture future and applications of GENI Built over the past decade by hundreds of leading computer scientists and engineers GENI is a nationwide network used daily by thousands of computer scientists to explore the next Cloud and Internet and the applications and services they enable which will transform our communities and our lives Since by design it runs on existing computing and networking equipment and over the standard commodity Internet it is poised for explosive growth and transformational impact over the next five years Over 70 of the builders of GENI have contributed to present its development architecture and implementation both as a standalone US project and as a federated peer with similar projects worldwide forming the core of a worldwide network Applications and services enabled by GENI from smarter cities to intensive collaboration to immersive education are discussed The book also explores the concepts and technologies that transform the Internet from a shared transport network to a collection of slices private on the fly application specific nationwide networks with guarantees of privacy and responsiveness The reader will learn the motivation for building GENI and the experience of its precursor infrastructures the architecture and implementation of the GENI infrastructure its deployment across the United States and worldwide the new network applications and services enabled by and running on the GENI infrastructure and its international collaborations and extensions This book is useful for academics in the networking and distributed systems areas Chief Information Officers in the academic private and government sectors and network and information architects     Advanced Computer and Communication Engineering Technology Hamzah Asyran Sulaiman, Mohd Azlishah Othman, Mohd Fairuz Iskandar Othman, Yahaya Abd Rahim, Naim Che Pee, 2014-11-01 This book covers diverse aspects of advanced computer and communication engineering focusing specifically on industrial and manufacturing theory and applications of electronics communications computing and information technology Experts in research industry and academia present the latest developments in technology describe applications involving cutting edge communication and computer systems and explore likely future directions In addition access is offered to numerous new algorithms that assist in solving computer and communication engineering problems The book is based on presentations delivered at ICOCOE 2014 the 1st International Conference on Communication and Computer Engineering It will appeal to a wide range of professionals in the field including telecommunication engineers computer engineers and scientists researchers academics and students     **Grid and Distributed Computing** Dominik Slezak, Tai-hoon Kim, Stephen S.T. Yau, Osvaldo Gervasi, Byeong-Ho Kang, 2010-05-10 As future generation information technology FGIT becomes specialized and fr mented it is easy to lose sight that many topics in FGIT have common threads and because of this advances in one discipline may be transmitted to others Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole Of particular interest are hybrid solutions that c bine ideas taken from

multiple disciplines in order to achieve something more significant than the sum of the individual parts Through such hybrid philosophy a new principle can be discovered which has the propensity to propagate throughout multifaceted disciplines FGIT 2009 was the first mega conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT conducted by separate scientific committees but coordinated in order to expose the most important contributions It included the following international conferences Advanced Software Engineering and Its Applications ASEA Bio Science and Bio Technology BSBT Control and Automation CA Database Theory and Application DTA Disaster Recovery and Business Continuity DRBC published independently Future Generation Communication and Networking FGCN that was combined with Advanced Communication and Networking ACN Grid and Distributed Computing GDC Multimedia Computer Graphics and Broadcasting MulGraB Security Technology SecTech Signal Processing Image Processing and Pattern Recognition SIP and e Service Science and Technology UNESST **Correct Software in Web**

**Applications and Web Services** Bernhard Thalheim, Klaus-Dieter Schewe, Andreas Prinz, Bruno Buchberger, 2015-06-12 The papers in this volume aim at obtaining a common understanding of the challenging research questions in web applications comprising web information systems web services and web interoperability obtaining a common understanding of verification needs in web applications achieving a common understanding of the available rigorous approaches to system development and the cases in which they have succeeded identifying how rigorous software engineering methods can be exploited to develop suitable web applications and at developing a European scale research agenda combining theory methods and tools that would lead to suitable web applications with the potential to implement systems for computation in the public domain

**Computer and Information Science 2011** Roger Lee, 2011-05-08 The series Studies in Computational Intelligence SCI publishes new developments and advances in the various areas of computational intelligence quickly and with a high quality The intent is to cover the theory applications and design methods of computational intelligence as embedded in the fields of engineering computer science physics and life science as well as the methodologies behind them The series contains monographs lecture notes and edited volumes in computational intelligence spanning the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems Critical to both contributors and readers are the short publication time and world wide distribution this permits a rapid and broad dissemination of research results The purpose of the 10th IEEE ACIS International Conference on Computer and Information Science ICIS 2011 was held on May 16-18 2011 in Sanya Hainan Island China is to bring together scientist engineers computer users students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the best 20 papers from those papers accepted for presentation at the conference in order to publish



them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review

**Process Analytics** Seyed-Mehdi-Reza Beheshti,Boualem Benatallah,Sherif Sakr,Daniela Grigori,Hamid Reza Motahari-Nezhad,Moshe Chai Barukh,Ahmed Gater,Seung Hwan Ryu,2016-03-28 This book starts with an introduction to process modeling and process paradigms then explains how to query and analyze process models and how to analyze the process execution data In this way readers receive a comprehensive overview of what is needed to identify understand and improve business processes The book chiefly focuses on concepts techniques and methods It covers a large body of knowledge on process analytics including process data querying analysis matching and correlating process data and models to help practitioners and researchers understand the underlying concepts problems methods tools and techniques involved in modern process analytics Following an introduction to basic business process and process analytics concepts it describes the state of the art in this area before examining different analytics techniques in detail In this regard the book covers analytics over different levels of process abstractions from process execution data and methods for linking and correlating process execution data to inferring process models querying process execution data and process models and scalable process data analytics methods In addition it provides a review of commercial process analytics tools and their practical applications The book is intended for a broad readership interested in business process management and process analytics It provides researchers with an introduction to these fields by comprehensively classifying the current state of research by describing in depth techniques and methods and by highlighting future research directions Lecturers will find a wealth of material to choose from for a variety of courses ranging from undergraduate courses in business process management to graduate courses in business process analytics Lastly it offers professionals a reference guide to the state of the art in commercial tools and techniques complemented by many real world use case scenarios

**Multi-Camera Networks** Hamid Aghajan,Andrea Cavallaro,2009-04-25 The first book by the leading experts on this rapidly developing field with applications to security smart homes multimedia and environmental monitoring Comprehensive coverage of fundamentals algorithms design methodologies system implementation issues architectures and applications Presents in detail the latest developments in multi camera calibration active and heterogeneous camera networks multi camera object and event detection tracking coding smart camera architecture and middleware This book is the definitive reference in multi camera networks It gives clear guidance on the conceptual and implementation issues involved in the design and operation of multi camera networks as well as presenting the state of the art in hardware algorithms and system development The book is broad in scope covering smart camera architectures embedded processing sensor fusion and middleware calibration and topology network based detection and tracking and applications in distributed and collaborative methods in camera networks This book will be an ideal reference for university researchers R D engineers computer engineers and graduate students working in signal and video processing computer vision and sensor networks Hamid Aghajan is a Professor of Electrical

Engineering consulting at Stanford University His research is on multi camera networks for smart environments with application to smart homes assisted living and well being meeting rooms and avatar based communication and social interactions He is Editor in Chief of Journal of Ambient Intelligence and Smart Environments and was general chair of ACM IEEE ICDSC 2008 Andrea Cavallaro is Reader Associate Professor at Queen Mary University of London QMUL His research is on target tracking and audiovisual content analysis for advanced surveillance and multi sensor systems He serves as Associate Editor of the IEEE Signal Processing Magazine and the IEEE Trans on Multimedia and has been general chair of IEEE AVSS 2007 ACM IEEE ICDSC 2009 and BMVC 2009 The first book by the leading experts on this rapidly developing field with applications to security smart homes multimedia and environmental monitoring Comprehensive coverage of fundamentals algorithms design methodologies system implementation issues architectures and applications Presents in detail the latest developments in multi camera calibration active and heterogeneous camera networks multi camera object and event detection tracking coding smart camera architecture and middleware

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