Bpel Document

This book constitutes the proceedings of the
International Conference on E-business and
Strategy, iCETS 2012, held in Tianjin, China, in
August 2012. The 65 revised full papers presented
were carefully reviewed and selected from 231
submissions. The papers feature contemporary
research on developments in the fields of e-business
technology, information management systems, and
business strategy. Topics addressed are latest
development on e-business technology, computer
science and software engineering for e-business, e-
business and e-commerce applications, social
networking and social engineering for e-business, e-
business strategic management and economics
development, e-business education,
entrepreneurship and e-learning, digital economy
strategy, as well as internet and e-commerce policy.
If you've been thinking about installing or upgrading
to Release 12 but need to understand more about
why you should do so, this is the book for you. For
functional users, The Release 12 Primer highlights
the modules that have changed the most. Read
about Oracle's Global Business Release, Master
Data Management, MOAC and the Swan Interface.
Then see how it all comes together for the Financials
and Procurement product families, Supply Chain
Management, CRM, and Projects. And if you've

always wanted to understand more about the underlying technology, but found all the terminology too complex to sort through, this book covers the technical architecture, security issues, and even Fusion, targeting both functional and technical readers. "The Release 12 Primer provides the real story on the latest version of the Oracle E-Business Suite and its technical underpinnings. If you only buy one book on Oracle E-Business Release 12, buy this one." - Floyd M. Teter, Systems Engineer, JPL This book bridges the gap between Business and IT services and proposes an original life-cycle view of the modern service industry. Major solution architectures, technologies and research methods are discussed in the lifecycle of services innovation research. The book provides readers with new research and solution methods to enable IT services and computing technology to better create and manage business services, which is the goal of Services Computing.

This book constitutes the workshops of the 4th International Conference on Service-Oriented Computing, ICSOC 2006, held in Chicago, IL, USA in December 2006. The two workshops presented were carefully reviewed and selected from six submissions. Both ICSOC'06 workshops were held as one-day-workshops on December 4th 2006, i.e. the day before the major conference program of ICSOC'06 started. This volume contains separate

descriptions of both workshops as well as all high-quality paper contributions to these two workshops. The 8th edition of the International Symposium on Web and Wireless Geograp- cal Information Systems (W2GIS 2008) was held in December 2008, in the vibrant city of Shanghai, China. This annual symposium aims at providing a forum for discussing advances on recent developments and research results in the ?eld of Web and wireless geographical information systems. Promoted from workshop to s-posium in 2005, W2GIS now represents a prestigious event within this dynamic research community. These proceedings contain the papers selected for presen- tion at this international event. For the 2008 edition, we received 38 submissions from 16 countries. All subm- ted papers were related to topics of interest to the symposium. Each paper received three reviews. Based on these reviews, 14 papers were selected for presentation and inclusion in the proceedings. The accepted papers are all of excellent quality and cover topics that range from mobile networks and location-based services, to contextual representation and mapping, to geospatial Web techniques, to object tracking in Web and mobile environments. We wish to thank all authors that contributed to this symposium for the high quality of their papers and presentations. Our sincere thanks go to Springer's LNCS team. We would also like to acknowledge and thank the

Program C- mittee members for the quality and timeliness of their reviews. Finally, many thanks to the Steering Committee members for providing continuous support and advice.

Pro Spring Integration is an authoritative book from the experts that guides you through the vast world of enterprise application integration (EAI) and application of the Spring Integration framework towards solving integration problems. The book is: An introduction to the concepts of enterprise application integration A reference on building event-driven applications using Spring Integration A guide to solving common integration problems using Spring Integration What makes this book unique is its coverage of contemporary technologies and real-world information, with a focus on common problems that users are likely to confront. This book zeroes in on extending the Spring Integration framework to meet your custom integration demands. As Spring Integration is an extension of the Spring programming model, it builds on the Spring Framework's existing support for enterprise integration. This book will take you through all aspects of this relationship and show you how to get the most out of your Spring applications, where integration is a consideration. It discusses simple messaging within Spring-based applications and integration with external systems via simple adapters. Those adapters provide a higher-level of

abstraction over Spring's support for remoting, messaging, and scheduling, all of which receives coverage in this book.

This book constitutes the refereed proceedings of the Fifth International Conference on Service-Oriented Computing, ICSOC 2007. The 30 revised full papers and 14 short papers are organized in topical sections on service deployment, business process design, service discovery, quality of service support, testing and validation, service assembly, service properties, service modeling, SOA composition/experience/runtime/governance and QoS and composite service support.

This book contains the proceedings of the five high-quality workshops organized at the Second European Conference on Service-Oriented and Cloud Computing, ESOCC 2013, held in Malaga, Spain, in September 2013. The workshops are: Cloud for IoT (CLIoT 2013), CLOUd Storage Optimization (CLOUSO 2013), 12th International Workshop on Foundations of Coordination Languages and Self-Adaptive Systems (FOCLASA 2013), First Workshop on Mobile Cloud and Social Perspectives (MoCSoP 2013), and the 3rd International Workshop on Adaptive Services for the Future Internet (WAS4FI 2013). The 29 papers presented were carefully reviewed and selected from 51 submissions. They focus on specific topics in service-oriented and cloud computing domains:

cloud environments, smart connectivity, context-aware computation, cloud for IoT, storage clouds, coordination languages, formal approaches to modeling and reasoning, self-systems, services for mobile devices, wireless sensor networks.

A new approach to distributed large-scale data mining, service-oriented knowledge discovery extracts useful knowledge from today's often unmanageable volumes of data by exploiting data mining and machine learning distributed models and techniques in service-oriented infrastructures. Service-Oriented Distributed Knowledge Discovery presents techniques, algorithms, and systems based on the service-oriented paradigm. Through detailed descriptions of real software systems, it shows how the techniques, models, and architectures can be implemented. The book covers key areas in data mining and service-oriented computing. It presents the concepts and principles of distributed knowledge discovery and service-oriented data mining. The authors illustrate how to design services for data analytics, describe real systems for implementing distributed knowledge discovery applications, and explore mobile data mining models. They also discuss the future role of service-oriented knowledge discovery in ubiquitous discovery processes and large-scale data analytics. Highlighting the latest achievements in the field, the book gives many examples of the state of the art in service-oriented knowledge discovery. Both novices and more seasoned researchers will learn useful concepts related to distributed data mining and service-oriented data analysis. Developers will also gain insight on how to

successfully use service-oriented knowledge discovery in databases (KDD) frameworks.

Importance of supply chain integration has been shown in many industry sectors. The construction industry is one of the least integrated among all major industries. One of the major reasons is that construction supply chains are unstable and often consist of numerous distributed members, most of which are small and medium construction companies. With the proliferation of the Internet and the current maturity of web services standards, service oriented architecture (SOA) with open source technologies is a desirable computing model to support construction supply chain integration and collaboration due to its flexibility and low cost. This thesis investigates and demonstrates the potential of the current web services technologies and SOA for construction supply chain collaboration and management, through a prototype service oriented system framework, namely SC Collaborator (Supply Chain Collaborator). SC Collaborator is designed and implemented according to the system requirements for construction supply chain integration. The framework leverages web services and portal technologies, open standards, and open source packages. Although some web services systems allow user connection and integration through web services protocol, their system functions and operations are fixed and not adaptive to changes. The SC Collaborator framework enables flexible reconfiguration of internal service invocation, integration, and system layout without recompilation of the system. To align a collaborative system with the

supply chains it integrates, this thesis proposes and demonstrates the incorporation of supply chain models in a service oriented system framework. Specifically, the Supply Chain Operations Reference (SCOR) framework, a widely used model developed by the Supply Chain Council, is employed to model construction supply chains. The SCOR modeling framework provides a generic and hierarchically structured means to specify supply chain networks and processes. The SCOR process elements and operations are wrapped as individual web service units, which are integrated and orchestrated in the service oriented SC Collaborator framework. A case example on a student center construction project is used to illustrate the SCOR modeling framework for performance monitoring. The SC Collaborator framework is also extended to support collaboration among distributed service oriented collaborative systems. Due to the temporary project-based relationship among participants in construction projects, project participants that do not have direct business partnership may hesitate to expose and share sensitive and proprietary information with each other. The distributed SC Collaborator framework allows users to specify shared information and data. This thesis discusses how information consistency is ensured among distributed SC Collaborator systems. The distributed network of SC Collaborator systems is tested with a case scenario of a completed expansion project of a three-storey residential building.
This book presents papers from the lectures of leading researchers given at the Ninth International School on

Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2009, which was devoted to formal methods for web services. Computer and Information Sciences - ISCIS 200520th International Symposium, Istanbul, Turkey, October 26 -- 28, 2005, ProceedingsSpringer This volume constitutes the refereed proceedings of the Second International Conference on HCI in Business, HCIB 2015, held as part of the 17th International Conference on Human-Computer Interaction, HCII 2015, which took place in Los Angeles, CA, USA, in August 2015. HCII 2015 received a total of 4843 submissions, of which 1462 papers and 246 posters were accepted for publication after a careful reviewing process. The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. They thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The 72 papers presented in this volume address the following topics: social media for business, enterprise systems, business and gamification, analytics, visualization and decision-making, industry, academia, innovation, and market. This book constitutes the joint refereed proceedings of nine international workshops held as part of OTM 2005 in Agia Napa, Cyprus in October/November 2005.The 145 revised full papers presented were carefully reviewed and selected from a total of 268 submissions. Topics addressed are agents, Web services and ontologies merging (AWeSOMe 2005), context-aware

mobile systems (CAMS 2005), grid computing and its application to data analysis (GADA 2005), inter-organizational systems and interoperability of enterprise software and applications (MIOS+INTEROP 2005), object-role modeling (ORM 2005), a PHD symposium (PhDS 2005), semantic-based geographical information systems (SeBGIS 2005), Web semantics (SWWS 2005), and ontologies, semantics and e-learning (WOSE 2005). This book constitutes the proceedings of the 17th International Conference on Web Information Systems and Applications, WISA 2020, held in Guangzhou, China, in September 2020. The 42 full papers and 16 short papers presented were carefully reviewed and selected from 165 submissions. The papers are grouped in topical sections on world wide web, recommendation, query processing and algorithm, natural language processing, machine learning, graph query, edge computing and data mining, data privacy and security, and blockchain.

This book constitutes the refereed proceedings of the 19th EUNICE/IFIP WG 6.2, 6.6 workshop on Advances in Communication Networking, EUNICE 2013, held in Chemnitz, Germany, in August 2013. The 23 oral papers demonstrated together with 9 poster presentations were carefully reviewed and selected from 40 submissions. The papers are organized in topical sections on network modeling and design, traffic analysis, network and traffic management, services over mobile networks, monitoring and measurement, security concepts, application of ICT in smart grid and smart home environments, data dissemination in ad-hoc and sensor networks, and

services and applications.
This book constitutes the refereed proceedings of the 10th International Conference on Ad-hoc, Mobile, and Wireless Networks, ADHOC-NOW 2011 held in Paderborn, Germany, July 18-20, 2011. The 23 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 53 submissions. The papers are organized in topical sections on routing and activity scheduling, topology control, medium access control, security, mobility management and handling, applications and evaluation, and analytical considerations.
The LNCS journal Transactions on Large-Scale Data- and Knowledge-Centered Systems focuses on data management, knowledge discovery, and knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data- and knowledge-management systems from centralized systems to decentralized systems enabling large-scale distributed applications providing high scalability. Current decentralized systems still focus on data and knowledge as their main resource. Feasibility of these systems relies basically on P2P (peer-to-peer) techniques and the support of agent systems with scaling and

decentralized control. Synergy between grids, P2P systems, and agent technologies is the key to data- and knowledge-centered systems in large-scale environments. This, the 10th issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems, contains seven full papers chosen following two additional rounds of reviewing from revised and extended versions of a selection of papers presented at DEXA 2012. Topics covered include formal modelling and verification of web services, incremental computation of skyline queries, the implication problem for XML keys, lossless data compression, declarative view selection methods, time awareness in recommender systems, and network data mining.

Modern society exists in a digital era in which high volumes of multimedia information exists. To optimize the management of this data, new methods are emerging for more efficient information retrieval. Web Semantics for Textual and Visual Information Retrieval is a pivotal reference source for the latest academic research on embedding and associating semantics with multimedia information to improve data retrieval techniques. Highlighting a range of pertinent topics such as automation, knowledge discovery, and social networking, this book is ideally designed for researchers, practitioners, students, and professionals interested in emerging trends in information retrieval.

Internet-based information systems, the second covering the large-scale in- gration of heterogeneous computing systems and data resources with the aim of providing a global computing space. Eachofthesef ourconferencesencouragesresearcherstotreattheirre spective topics within a framework that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in particular case studies and industrial solutions. Following and expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more "archival" nature of the main conferences with research results in a number of selected and more "avant-garde" areas related to the general topic of Web-based distributed c- puting. For instance, the so-called Semantic Web has given rise to several novel research areas combining linguistics, information systems technology, and ar- ?cial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage. We were glad to see that ten of our earlier s- cessful workshops (ADI, CAMS, EI2N, SWWS, ORM, OnToContent, MONET, SEMELS, COMBEK, IWSSA) re-appeared in 2008 with a second, third or even ?fth edition, sometimes by alliance with other newly emerging workshops, and that no fewer than three brand-new independent workshops could be selected from proposals and hosted: ISDE, ODIS and Beyond SAWSDL. Workshop - diences

productively mingled with each other and with those of the main c- ferences, and there was considerable overlap in authors.

Internet-based information systems, the second covering the large-scale in- gration of heterogeneous computing systems and data resources with the aim of providing a global computing space. Eachofthesef ourconferencesencouragesresearcherstotreattheirre spective topics within a framework that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in particular case studies and industrial solutions. Following and expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more "archival" nature of the main conferences with research results in a number of selected and more "avant-garde" areas related to the general topic of Web-based distributed c- puting. For instance, the so-called Semantic Web has given rise to several novel research areas combining linguistics, information systems technology, and ar-?cial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage. We were glad to see that ten of our earlier s-cessful workshops (ADI, CAMS, EI2N, SWWS, ORM, OnToContent, MONET, SEMELS, COMBEK, IWSSA) re-appeared in 2008 with a second, third or even ?fth edition, sometimes by alliance with other newly emerging workshops, and that no fewer than

three brand-new independent workshops could be selected from proposals and hosted: ISDE, ODIS and Beyond SAWSDL. Workshop - diences productively mingled with each other and with those of the main c- ferences, and there was considerable overlap in authors.

KES International (KES) is a worldwide organisation that provides a professional community and association for researchers, originally in the discipline of Knowledge Based and Intelligent Engineering Systems, but now extending into other related areas. Through this, KES provides its members with opportunities for publication and beneficial interaction. The focus of KES is research and technology transfer in the area of Intelligent S-tems, i.e. computer-based software systems that operate in a manner analogous to the human brain, in order to perform advanced tasks. Recently KES has started to extend its area of interest to encompass the contribution that intelligent systems can make to sustainability and renewable energy, and also the knowledge transfer, innovation and enterprise agenda. Involving several thousand researchers, managers and engineers drawn from u-versities and companies world-wide, KES is in an excellent position to facilitate - ternational research co-operation and generate synergy in the area of artificial intel- gence applied to real-world 'Smart' systems and the underlying related theory. The KES

annual conference covers a broad spectrum of intelligent systems topics and attracts several hundred delegates from a range of countries round the world. KES also organises symposia on specific technical topics, for example, Agent and Multi Agent Systems, Intelligent Decision Technologies, Intelligent Interactive M- timedia Systems and Services, Sustainability in Energy and Buildings and Innovations through Knowledge Transfer. KES is responsible for two peer-reviewed journals, the International Journal of Knowledge based and Intelligent Engineering Systems, and Intelligent Decision Technologies: an International Journal. This book constitutes the refereed proceedings of the 20th International Symposium on Computer and Information Sciences, ISCIS 2005, held in Istanbul, Turkey in October 2005. The 92 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 491 submissions. The papers are organized in topical sections on computer networks, sensor and satellite networks, security and cryptography, performance evaluation, e-commerce and Web services, multiagent systems, machine learning, information retrieval and natural language processing, image and speech processing, algorithms and database systems, as well as theory of computing.

Apache Tuscany is a free, open source project that helps users develop Service Oriented Architecture

(SOA) solutions. It provides a lightweight infrastructure that implements Service Component Architecture (SCA) and provides seamless integration with other technologies. Tuscany in Action is a comprehensive, hands-on guide for developing enterprise applications using Apache Tuscany's lightweight SCA infrastructure. The book uses practical examples to demonstrate how to develop applications with the open source Tuscany SCA. Readers will learn how to model, compose, and manage applications. Detailed explanations of how to use the various features of Apache Tuscany for protocol handling and developing components are presented. Readers will also learn how to extend Apache Tuscany to support new programming environments and communication protocols. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. This book constitutes the refereed proceedings of 6 international workshops held in conjunction with the 4th International Conference on Business Process Management, BPM 2006, in Vienna, Austria in September 2006. The 40 revised full papers presented were carefully reviewed and selected from a total of 94 overall submissions to six international workshops. Companies worldwide are rapidly adopting Service-Oriented Architecture (SOA), a design methodology used to connect systems as services, and Business Process

Management (BPM), the art of orchestrating these services. Media organizations from news organizations to music and media download services to movie studios are adapting to SOA-style architectures, but have run into roadblocks unique to the media and entertainment industry. These challenges include incorporating real-time data, moving large amounts of data at one time, non-linearity and flexibility for workflow, and unique metrics and data gathering. The Service-Oriented Media Enterprise details the challenges and presents solutions for media technology professionals. By addressing both the IT and media aspects, it helps individuals improve current enterprise technologies and operations. This book constitutes the refereed proceedings of the 4th International Conference on COTS-Based Software Systems, ICCBSS 2005, held in Bilbao, Spain in February 2005. The 28 revised full papers presented together with summaries of panels, workshops, tutorials, and posters were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on COTS at business, integration and interoperability, evaluation and requirements, safety and dependability, architecture and design, COTS management, and open source software. Define, model, implement, and monitor real-world BPEL business processes with SOA powered BPM for Oracle SOA Suite with this book and eBook. This book constitutes the refereed proceedings of the 13th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2012, held in Bournemouth, UK, in October 2012. The 61 revised papers presented were

carefully selected from numerous submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications with a particular focus on the Internet of Services. The papers are organized in topical sections on service enhanced products; service composition; collaborative ecosystems; platform requirements; cloud-based support; colllaborative business frameworks; service design; e-governance; collaboration in traditional sectors; collaboration motivators; virtual organization breeding environments; collaboration spaces; designing collaborative networks; cost, benefits and performance; identification of patterns; co-innovation and competitiveness; collaborative behavior models; and risks, governance, trust.
Focuses on service-oriented architecture: web services, orchestrations, poliices, and more - for developers.
This book contains a collection of selected and revised papers originally presented at the Workshop on Emerging Web Service Technology (WEWST) held in conjunction with the 4th European Conference on Web Services (ECOWS'06) in Zurich, Switzerland, December 2006. It details the latest innovations, developments and results in Web Services research. In addition, the book records the evolution of important ideas emerging in the Web Services field.
2012 International Conference on Environment Science and 2012 International Conference on Computer Science (ICES 2012/ICCS 2012) will be held in Australia, Melbourne, 15?16 March, 2012.Volume 1 contains some

new results in computational environment science. There are 47 papers were selected as the regular paper in this volume. It contains the latest developments and reflects the experience of many researchers working in different environments (universities, research centers or even industries), publishing new theories and solving new technological problems on computational environment science. The purpose of volume 1 is interconnection of diverse scientific fields, the cultivation of every possible scientific collaboration, the exchange of views and the promotion of new research targets as well as the further dissemination, the dispersion, the diffusion of the environment science, including but not limited to Ecology, Physics, Chemistry, Biology, Soil Science, Geology, Atmospheric Science and Geography We are sure that the efforts of the authors as well as the reviewers to provide high level contributions will be appreciated by the relevant scientific community. We are convinced that presented volume will be a source of knowledge and inspiration for all academic members, researchers and practitioners working in a field of the topic covered by the book.

This book constitutes the refereed proceedings of the 6th International Conference on Service-Oriented Computing, ICSOC 2008, held in Sydney, Australia, in December 2008. The 32 revised full papers and 20 short papers of the research track presented together with 6 industrial papers, 6 demonstration papers of the industrial track, and the abstracts of 4 keynote lectures were carefully reviewed and

selected from a total of 184 submissions. The papers present original research in the field of service oriented computing, from theoretical and foundational results to empirical evaluations as well as practical and industrial experiences. Topics addressed include services foundations, business service modelling, integrating systems of systems using services, service engineering, service assembly, service management, SOA runtime, quality of service, service applications (grid, e-science, government, etc.), as well as business and economical aspects of services.

The three-volume set LNCS 5101-5103 constitutes the refereed proceedings of the 8th International Conference on Computational Science, ICCS 2008, held in Krakow, Poland in June 2008. The 167 revised papers of the main conference track presented together with the abstracts of 7 keynote talks and the 100 revised papers from 14 workshops were carefully reviewed and selected for inclusion in the three volumes. The main conference track was divided into approximately 20 parallel sessions addressing topics such as e-science applications and systems, scheduling and load balancing, software services and tools, new hardware and its applications, computer networks, simulation of complex systems, image processing and visualization, optimization techniques, numerical linear algebra, and numerical algorithms. The

second volume contains workshop papers related to various computational research areas, e.g.: computer graphics and geometric modeling, simulation of multiphysics multiscale systems, computational chemistry and its applications, computational finance and business intelligence, physical, biological and social networks, geocomputation, and teaching computational science. The third volume is mostly related to computer science topics such as bioinformatics' challenges to computer science, tools for program development and analysis in computational science, software engineering for large-scale computing, collaborative and cooperative environments, applications of workflows in computational science, as well as intelligent agents and evolvable systems. Collects in four chapters single monographs related to the fundamental advances in parallel computer systems and their developments from different points of view (from computer scientists, computer manufacturers, end users) and related to the establishment and evolution of grids fundamentals, implementation and deployment.

This book constitutes the refereed proceedings of the 17th International Conference on Database and Expert Systems Applications, DEXA 2006. The book presents 90 revised full papers together with 1 invited paper. The papers are organized in topical sections on XML, data and information, data mining

and data warehouses, database applications, WWW, bioinformatics, process automation and workflow, knowledge management and expert systems, database theory, query processing, and privacy and security.

This three-volume collection, titled Enterprise Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems.

Identifies Recent Technological Developments Worldwide The field of grid computing has made rapid progress in the past few years, evolving and developing in almost all areas, including concepts, philosophy, methodology, and usages. Grid Computing: Infrastructure, Service, and Applications reflects the recent advances in this field, covering the research aspects that involve infrastructure, middleware, architecture, services, and applications. Grid Systems Across the Globe The first section of the book focuses on infrastructure and middleware and presents several national and international grid systems. The text highlights China Research and Development environment Over Wide-area Network

(CROWN), several ongoing cyberinfrastructure efforts in New York State, and Enabling Grids for E-sciencE (EGEE), which is co-funded by the European Commission and the world's largest multidisciplinary grid infrastructure today. The second part of the book discusses recent grid service advances. The authors examine the UK National Grid Service (NGS), the concept of resource allocation in a grid environment, OMIIBPEL, and the possibility of treating scientific workflow issues using techniques from the data stream community. The book describes an SLA model, reviews portal and workflow technologies, presents an overview of PKIs and their limitations, and introduces PIndex, a peer-to-peer model for grid information services. New Projects and Initiatives The third section includes an analysis of innovative grid applications. Topics covered include the WISDOM initiative, incorporating flow-level networking models into grid simulators, system-level virtualization, grid usage in the high-energy physics environment in the LHC project, and the Service Oriented HLA RTI (SOHR) framework. With a comprehensive summary of past advances, this text is a window into the future of this nascent technology, forging a path for the next generation of cyberinfrastructure developers.

Copyright: 0337c5d0425676978c1e0de400b324d4