

# [eBooks] Autonomic Network Management Principles Nazim Agoulmine

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Autonomic Network Management Principles-Nazim Agoulmine 2010-12-03 Autonomic networking aims to solve the mounting problems created by increasingly complex networks, by enabling devices and service-providers to decide, preferably without human intervention, what to do at any given moment, and ultimately to create self-managing networks that can interface with each other, adapting their behavior to provide the best service to the end-user in all situations. This book gives both an understanding and an assessment of the principles, methods and architectures in autonomous network management, as well as lessons learned from, the ongoing initiatives in the field. It includes contributions from industry groups at Orange Labs, Motorola, Ericsson, the ANA EU Project and leading universities. These groups all provide chapters examining the international research projects to which they are contributing, such as the EU Autonomic Network Architecture Project and Ambient Networks EU Project, reviewing current developments and demonstrating how autonomic management principles are used to define new architectures, models, protocols, and mechanisms for future network equipment. Provides reviews of cutting-edge approaches to the management of complex telecommunications, sensors, etc. networks based on new autonomic approaches. This enables engineers to use new autonomic techniques to solve complex distributed problems that are not possible or easy to solve with existing techniques. Discussion of FOCAL, a semantically rich network architecture for coordinating the behavior of heterogeneous and distributed computing resources. This provides vital information, since the data model holds much of the power in an autonomic system, giving the theory behind the practice, which will enable engineers to create their own solutions to network management problems. Real case studies from the groups in industry and academia who work with this technology. These allow engineers to see how autonomic networking is implemented in a variety of scenarios, giving them a solid grounding in applications and helping them generate their own solutions to real-world problems.

Autonomic Principles of IP Operations and Management-Gerard Parr 2006-10-17 This book constitutes the refereed proceedings of the 6th IEEE International Workshop on IP Operations and Management, IPOM 2006, held in Dublin, Ireland in October 2006 in the course of the 2nd International Week on Management of Networks and Services, Manweek 2006. The 18 revised full papers and four revised short papers presented were carefully reviewed and selected from 45 submissions.

Large Scale Management of Distributed Systems-Radu State 2006-10-12 th This volume presents the proceedings of the 17 IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2006), which was held rd th in Dublin, Ireland during October 23 to 25 , 2006. In line with its reputation as one of the pre-eminent fora for the discussion and debate of advances of distributed systems management, the 2006 iteration of DSOM brought together an international audience of researchers and practitioners from both industry and academia. th DSOM 2006 was the 17 in a series of annual workshops, and it followed the footsteps of highly successful previous meetings, the most recent of which were held in Barcelona, Spain (DSOM 2005), Davis, USA (DSOM 2004), Heidelberg, Germany (DSOM 2003), Montreal, Canada (DSOM 2002) and Nancy, France (DSOM 2001). The goal of the DSOM workshops is to bring together researchers in the areas of networks, systems and services management, from both industry and academia, to discuss recent advances and foster future growth in these ?elds. In contrast to the larger management symposia, such as Integrated Management (IM) and Network Operations and Management (NOMS), the DSOM workshops are organised as sing- track programmes in order to stimulate interaction among participants. Following the excellent experiences from the previous year, DSOM was for the th

Fundamentals of Electrical Engineering-

Policy-Based Network Management-John Strassner 2004 A real-world approach to describing the fundamental operation of Policy-Based Network Management (PBNM) that enables practitioners to develop and implement PBNM systems.

Industrial Engineering in the Big Data Era-Fethi Calisir 2019-01-23 This book gathers extended versions of the best papers presented at the Global Joint Conference on Industrial Engineering and Its Application Areas (GJCIE), held in Nevsehir, Turkey, on June 21-22, 2018. They reports on industrial engineering methods and applications, with a special focus on the advantages and challenges posed by Big data in this field. The book covers a wide range of topics, including decision making, optimization, supply chain management and quality control.

Managing Next Generation Networks and Services-Shingo Ata 2007-09-20 This book constitutes the refereed proceedings of the 9th Asia-Pacific Network Operations and Management Symposium, APNOMS 2007, held in Sapporo, Japan, October 2007. The 48 revised full papers and 30 revised short papers cover management of distributed networks, network configuration and planning, network security management, sensor and ad-hoc networks, network monitoring, routing and traffic engineering, management of wireless networks and security on wireless networks.

Advanced Nutrition and Dietetics in Obesity-Catherine Hankey 2018-02-05 This addition to the British Dietetic Association Advanced Nutrition and Dietetics book series is written for clinicians and researchers who work with any aspect of obesity and its comorbid conditions. Featuring contributions from leading researchers and practitioners from around the globe Advanced Nutrition and Dietetics in Obesity offers a uniquely international perspective on what has become a worldwide public health crisis. Chapters cover a full range of new ideas and research on the underlying drivers of obesity in populations including discussions on the genetic and clinical aspects of obesity, along with expert recommendations on how to effectively manage and prevent this chronic and persistent disease. Providing a comprehensive overview of the key literature in this field, Advanced Nutrition and Dietetics in Obesity is an invaluable resource for all those whose work should or does embrace any aspect of obesity.

Principles of Animal Nutrition-Guoyao Wu 2017-11-22 Animals are biological transformers of dietary matter and energy to produce high-quality foods and wools for human consumption and use. Mammals, birds, fish, and shrimp require nutrients to survive, grow, develop, and reproduce. As an interesting, dynamic, and challenging discipline in biological sciences, animal nutrition spans an immense range from chemistry, biochemistry, anatomy and physiology to reproduction, immunology, pathology, and cell biology. Thus, nutrition is a foundational subject in livestock, poultry and fish production, as well as the rearing and health of companion animals. This book entitled Principles of Animal Nutrition consists of 13 chapters. Recent advances in biochemistry, physiology and anatomy provide the foundation to understand how nutrients are utilized by ruminants and non-ruminants. The text begins with an overview of the physiological and biochemical bases of animal nutrition, followed by a detailed description of chemical properties of carbohydrates, lipids, protein, and amino acids. It advances to the coverage of the digestion, absorption, transport, and metabolism of macronutrients, energy, vitamins, and minerals in animals. To integrate the basic knowledge of nutrition with practical animal feeding, the book continues with discussion on nutritional requirements of animals for maintenance and production, as well as the regulation of food intake by animals. Finally, the book closes with feed additives, including those used to enhance animal growth and survival, improve feed efficiency for protein production, and replace feed antibiotics. While the classical and modern concepts of animal nutrition are emphasized throughout the book, every effort has been made to include the most recent progress in this ever-expanding field, so that readers in various biological disciplines can integrate biochemistry and physiology with nutrition, health, and disease in mammals, birds, and other animal species (e.g., fish and shrimp). All chapters clearly provide the essential literature related to the principles of animal nutrition, which should be useful for academic researchers, practitioners, beginners, and government policy makers. This book is an excellent reference for professionals and a comprehensive textbook for senior undergraduate and graduate students in animal science, biochemistry, biomedicine, biology, food science, nutrition, veterinary medicine, and related fields.

Information Management and Big Data-Juan Antonio Lossio-Ventura 2019-02-07 This book constitutes the

refereed proceedings of the 5th International Conference on Information Management and Big Data, SIMBig 2018, held in Lima, Peru, in September 2018. The 34 papers presented were carefully reviewed and selected from 101 submissions. The papers address issues such as data mining, artificial intelligence, Natural Language Processing, information retrieval, machine learning, web mining.

The Future Internet-John Domingue 2011-04-08 Irrespective of whether we use economic or societal metrics, the Internet is one of the most important technical infrastructures in existence today. It will be a catalyst for much of our innovation and prosperity in the future. A competitive Europe will require Internet connectivity and services beyond the capabilities offered by current technologies. Future Internet research is therefore a must. This book is published in full compliance with the Open Access publishing initiative; it is based on the research carried out within the Future Internet Assembly (FIA). It contains a sample of representative results from the recent FIA meetings spanning a broad range of topics, all being of crucial importance for the future Internet. The book includes 32 contributions and has been structured into the following sections, each of which is preceded by a short introduction: Foundations: architectural issues; socio-economic issues; security and trust; and experiments and experimental design. Future Internet Areas: networks, services, and content; and applications.

Proceedings of the Third International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'18)-Ajith Abraham 2018-12-06 This book contains papers presented in the main track of IITI 2018, the Third International Scientific Conference on Intelligent Information Technologies for Industry held in Sochi, Russia on September 17-21. The conference was jointly co-organized by Rostov State Transport University (Russia) and VŠB - Technical University of Ostrava (Czech Republic) with the participation of Russian Association for Artificial Intelligence (RAAI). IITI 2018 was devoted to practical models and industrial applications related to intelligent information systems. It was considered as a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries. Nevertheless, some theoretical talks concerning the state-of-the-art in intelligent systems and soft computing were also included into proceedings.

Herbal Medicine in Depression-Clara Grosso 2016-05-30 This book is written for researchers, undergraduate students and postgraduate students, physicians and traditional medicine practitioners who develop research in the field of neurosciences, phytochemistry and ethnopharmacology or can be useful for their practice. Topics discussed include the description of depression, its biochemical causes, the targets of antidepressant drugs, animal and cell models commonly used in the research of this pathology, medicinal plants and bioactive compounds with antidepressant activity used in traditional medicine, advances in nanotechnology for drug delivery to the brain and finally the future challenges for researchers studying this pathology.

Encyclopedia of Cloud Computing-San Murugesan 2016-05-09 The Encyclopedia of Cloud Computing provides IT professionals, educators, researchers and students with a compendium of cloud computing knowledge. Authored by a spectrum of subject matter experts in industry and academia, this unique publication, in a single volume, covers a wide range of cloud computing topics, including technological trends and developments, research opportunities, best practices, standards, and cloud adoption. Providing multiple perspectives, it also addresses questions that stakeholders might have in the context of development, operation, management, and use of clouds. Furthermore, it examines cloud computing's impact now and in the future. The encyclopedia presents 56 chapters logically organized into 10 sections. Each chapter covers a major topic/area with cross-references to other chapters and contains tables, illustrations, side-bars as appropriate. Furthermore, each chapter presents its summary at the beginning and backend material, references and additional resources for further information.

Global Trends in Computing and Communication Systems-P. Venkata Krishna 2012-08-08 This two-volume set, CCIS 0269-CCIS 0270, constitutes the refereed post-conference proceedings of the International Conference on Global Trends in Computing and Communication, ObCom 2011, held in Vellore, India, in December 2011. The 173 full papers presented together with a keynote paper and invited papers were carefully reviewed and selected from 842 submissions. The conference addresses all current issues associated with computing, communication and information. The proceedings consists of invited papers dealing with the review of performance models of computer and communication systems and contributed papers that feature topics such as networking, cloud computing, fuzzy logic, mobile communication, image processing, navigation systems, biometrics and Web services covering literally all the vital areas of the computing domains.

Requirements Engineering: Foundation for Software Quality-Roel Wieringa 2010-06-17 This volume constitutes the refereed proceedings of the International Working Conference REFSQ 2010, held in Essen, Germany, in June/July 2010.

Real-Time Mobile Multimedia Services-Dilip Krishnaswamy 2007-10-09 It is a great pleasure to present the proceedings of the 10th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS 2007). The MMNS 2007 Conference was held in San Jose, California, USA during October 31 - November 2 as part of the 3rd International Week on Management of Networks and Services (Manweek

2007). As in the previous three years, the Manweek umbrella allowed an international audience of researchers and scientists from industry and academia - who are researching and developing management systems - to share views and ideas and present their state-of-the-art results. The other events co-located with Manweek 2007 were the 18th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2007), the 7th IEEE Workshop on IP Operations and Management (IPOM2007), the 2nd IEEE International Workshop on Modeling Autonomic Communications Environments (MACE 2007), and the 1st IEEE/IFIP International Workshop on End-to-End Virtualization and Grid Management (EVGM 2007). Under this umbrella, MMNS proved itself again as a top public venue for results dissemination and intellectual collaboration with specific emphasis on multimedia and mobility aspects of end-to-end services. These aspects of management are becoming a major challenge in the ability to deliver cost effective end-to-end multimedia-based services in the upcoming 4G wireless systems.

Shadows of the Prophet-Douglas S. Farrer 2009-06-05 This is the first in-depth study of the Malay martial art, silat, and the first ethnographic account of the Haqqani Islamic Sufi Order. Drawing on 12 years of research and practice, the author provides a major contribution to the study of Malay culture.

Textbook of Diabetes-Richard I. G. Holt 2017-03-06 Now in its fifth edition, the Textbook of Diabetes has established itself as the modern, well-illustrated, international guide to diabetes. Sensibly organized and easy to navigate, with exceptional illustrations, the Textbook hosts an unrivalled blend of clinical and scientific content. Highly-experienced editors from across the globe assemble an outstanding set of international contributors who provide insight on new developments in diabetes care and information on the latest treatment modalities used around the world. The fifth edition features an array of brand new chapters, on topics including: Ischaemic Heart Disease Glucagon in Islet Regulation Microbiome and Diabetes Diabetes and Non-Alcoholic Fatty Liver Disease Diabetes and Cancer End of Life Care in Diabetes as well as a new section on Psychosocial aspects of diabetes. In addition, all existing chapters are fully revised with the very latest developments, including the most recent guidelines from the ADA, EASD, DUK and NICE. Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates Via the companion website, readers can access a host of additional online materials such as: 200 interactive MCQ's to allow readers to self-assess their clinical knowledge every figure from the book, available to download into presentations fully searchable chapter pdfs Once again, Textbook of Diabetes provides endocrinologists and diabetologists with a fresh, comprehensive and multi-media clinical resource to consult time and time again.

Reinforcement Learning and Dynamic Programming Using Function Approximators-Lucian Busoniu 2017-07-28 From household appliances to applications in robotics, engineered systems involving complex dynamics can only be as effective as the algorithms that control them. While Dynamic Programming (DP) has provided researchers with a way to optimally solve decision and control problems involving complex dynamic systems, its practical value was limited by algorithms that lacked the capacity to scale up to realistic problems. However, in recent years, dramatic developments in Reinforcement Learning (RL), the model-free counterpart of DP, changed our understanding of what is possible. Those developments led to the creation of reliable methods that can be applied even when a mathematical model of the system is unavailable, allowing researchers to solve challenging control problems in engineering, as well as in a variety of other disciplines, including economics, medicine, and artificial intelligence. Reinforcement Learning and Dynamic Programming Using Function Approximators provides a comprehensive and unparalleled exploration of the field of RL and DP. With a focus on continuous-variable problems, this seminal text details essential developments that have substantially altered the field over the past decade. In its pages, pioneering experts provide a concise introduction to classical RL and DP, followed by an extensive presentation of the state-of-the-art and novel methods in RL and DP with approximation. Combining algorithm development with theoretical guarantees, they elaborate on their work with illustrative examples and insightful comparisons. Three individual chapters are dedicated to representative algorithms from each of the major classes of techniques: value iteration, policy iteration, and policy search. The features and performance of these algorithms are highlighted in extensive experimental studies on a range of control applications. The recent development of applications involving complex systems has led to a surge of interest in RL and DP methods and the subsequent need for a quality resource on the subject. For graduate students and others new to the field, this book offers a thorough introduction to both the basics and emerging methods. And for those researchers and practitioners working in the fields of optimal and adaptive control, machine learning, artificial intelligence, and operations research, this resource offers a combination of practical algorithms, theoretical analysis, and comprehensive examples that they will be able to adapt and apply to their own work. Access the authors' website at [www.dcs.tudelft.nl/rlbook/](http://www.dcs.tudelft.nl/rlbook/) for additional material, including computer code used in the studies and information concerning new developments.

Advances in Big Data and Cloud Computing-J. Dinesh Peter 2018-12-12 This book is a compendium of the proceedings of the International Conference on Big Data and Cloud Computing. It includes recent advances in the

areas of big data analytics, cloud computing, internet of nano things, cloud security, data analytics in the cloud, smart cities and grids, etc. This volume primarily focuses on the application of the knowledge that promotes ideas for solving the problems of the society through cutting-edge technologies. The articles featured in this proceeding provide novel ideas that contribute to the growth of world class research and development. The contents of this volume will be of interest to researchers and professionals alike.

Shaping the Future of ICT-Ibrahiem M. M. El Emary 2017-09-19 The International Conference on Communications, Management, and Information Technology (ICCMIT'16) provides a discussion forum for scientists, engineers, educators and students about the latest discoveries and realizations in the foundations, theory, models and applications of systems inspired on nature, using computational intelligence methodologies, as well as in emerging areas related to the three tracks of the conference: Communication Engineering, Knowledge, and Information Technology. The best 25 papers to be included in the book will be carefully reviewed and selected from numerous submissions, then revised and expanded to provide deeper insight into trends shaping future ICT.

Principles of Molecular Pathology-Anthony Killeen 2003-11-07 Anthony Killeen, MD, PhD, offers a comprehensive yet concise introduction to molecular pathology that encompasses both applied and theoretical knowledge. Writing in a very readable style, the author reviews the basic concepts of human molecular biology, explains the principles of the most commonly used analytical methods, and discusses the molecular principles that underlie both inherited diseases and acquired genetic abnormalities that lead to cancer. Using common viral infections as examples, the book applies these molecular methods to the detection of microbial pathogens. The growing importance of pharmacogenetics and identity testing in the clinical laboratory is also highlighted.

A History of Knowledge-Charles Lincoln Van Doren 1992 Covers every aspect of knowledge--scientific, intellectual, and historical--from the beginning of the human experience into the twenty-first century and beyond  
Communication and Computing Systems-B.M.K. Prasad 2019-10-22 The International Conference on Communication and Computing Systems (ICCCS 2018) provides a high-level international forum for researchers and recent advances in the field of electronic devices, computing, big data analytics, cyber security, quantum computing, biocomputing, telecommunication, etc. The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research.

Intelligent Information and Database Systems-Manh Thanh Le 2010-03-05 The 2010 Asian Conference on Intelligent Information and Database Systems (ACIIDS) was the second event of the series of international scientific conferences for research and applications in the field of intelligent information and database systems. The aim of ACIIDS 2010 was to provide an international forum for scientific research in the technologies and applications of intelligent information, database systems and their applications. ACIIDS 2010 was co-organized by Hue University (Vietnam) and Wroclaw University of Technology (Poland) and took place in Hue city (Vietnam) during March 24-26, 2010. We received almost 330 papers from 35 countries. Each paper was peer reviewed by at least two members of the International Program Committee and International Reviewer Board. Only 96 best papers were selected for oral presentation and publication in the two volumes of the ACIIDS 2010 proceedings. The papers included in the proceedings cover the following topics: artificial social systems, case studies and reports on deployments, collaborative learning, collaborative systems and applications, data warehousing and data mining, database management technologies, database models and query languages, database security and integrity, - business, e-commerce, e-finance, e-learning systems, information modeling and - quirements engineering, information retrieval systems, intelligent agents and mul- agent systems, intelligent information systems, intelligent internet systems, intelligent optimization techniques, object-relational DBMS, ontologies and information sharing, semi-structured and XML database systems, unified modeling language and unified processes, Web services and Semantic Web, computer networks and communication systems.

Industrial Automation and Robotics-A.K. Gupta 2016-11-14 The purpose of this book is to present an introduction to the multidisciplinary field of automation and robotics for industrial applications. The companion files include numerous video tutorial projects and a chapter on the history and modern applications of robotics. The book initially covers the important concepts of hydraulics and pneumatics and how they are used for automation in an industrial setting. It then moves to a discussion of circuits and using them in hydraulic, pneumatic, and fluidic design. The latter part of the book deals with electric and electronic controls in automation and final chapters are devoted to robotics, robotic programming, and applications of robotics in industry. eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at [info@merclearning.com](mailto:info@merclearning.com). Features: \* Begins with introductory concepts on automation, hydraulics, and pneumatics \* Covers sensors, PLC's, microprocessors, transfer devices and feeders, robotic sensors, robotic grippers, and robot programming

Evaluation of Novel Approaches to Software Engineering-Ernesto Damiani 2020-02-08 This book constitutes the refereed proceedings of the 14th International Conference on Evaluation of Novel Approaches to Software

Engineering, ENASE 2019, held in Heraklion, Crete, Greece, in May 2019. The 19 revised full papers presented were carefully reviewed and selected from 102 submissions. The papers included in this book contribute to the understanding of relevant trends of current research on novel approaches to software engineering for the development and maintenance of systems and applications, specically with relation to: model-driven software engineering, requirements engineering, empirical software engineering, service-oriented software engineering, business process management and engineering, knowledge management and engineering, reverse software engineering, software process improvement, software change and configuration management, software metrics, software patterns and refactoring, application integration, software architecture, cloud computing, and formal methods.

Diabetes Atlas-International Diabetes Federation 2003

Handbook of Research on Emerging Advancements and Technologies in Software Engineering-Ghani, Imran 2014-04-30 Advanced approaches to software engineering and design are capable of solving complex computational problems and achieving standards of performance that were unheard of only decades ago.

Handbook of Research on Emerging Advancements and Technologies in Software Engineering presents a comprehensive investigation of the most recent discoveries in software engineering research and practice, with studies in software design, development, implementation, testing, analysis, and evolution. Software designers, architects, and technologists, as well as students and educators, will find this book to be a vital and in-depth examination of the latest notable developments within the software engineering community.

Recent Advances on Soft Computing and Data Mining-Rozaida Ghazali 2019-12-04 This book provides an introduction to data science and offers a practical overview of the concepts and techniques that readers need to get the most out of their large-scale data mining projects and research studies. It discusses data-analytical thinking, which is essential to extract useful knowledge and obtain commercial value from the data. Also known as data-driven science, soft computing and data mining disciplines cover a broad interdisciplinary range of scientific methods and processes. The book provides readers with sufficient knowledge to tackle a wide range of issues in complex systems, bringing together the scopes that integrate soft computing and data mining in various combinations of applications and practices, since to thrive in these data-driven ecosystems, researchers, data analysts and practitioners must understand the design choice and options of these approaches. This book helps readers to solve complex benchmark problems and to better appreciate the concepts, tools and techniques used.

Cognitive Networks-Qusay Mahmoud 2007-09-11 Cognitive networks can dynamically adapt their operational parameters in response to user needs or changing environmental conditions. They can learn from these adaptations and exploit knowledge to make future decisions. Cognitive networks are the future, and they are needed simply because they enable users to focus on things other than configuring and managing networks. Without cognitive networks, the pervasive computing vision calls for every consumer to be a network technician. The applications of cognitive networks enable the vision of pervasive computing, seamless mobility, ad-hoc networks, and dynamic spectrum allocation, among others. In detail, the authors describe the main features of cognitive networks clearly indicating that cognitive network design can be applied to any type of network, being fixed or wireless. They explain why cognitive networks promise better protection against security attacks and network intruders and how such networks will benefit the service operator as well as the consumer. Cognitive Networks Explores the state-of-the-art in cognitive networks, compiling a roadmap to future research. Covers the topic of cognitive radio including semantic aspects. Presents hot topics such as biologically-inspired networking, autonomic networking, and adaptive networking. Introduces the applications of machine learning and distributed reasoning to cognitive networks. Addresses cross-layer design and optimization. Discusses security and intrusion detection in cognitive networks. Cognitive Networks is essential reading for advanced students, researchers, as well as practitioners interested in cognitive & wireless networks, pervasive computing, distributed learning, seamless mobility, and self-governed networks. With forewords by Joseph Mitola III as well as Sudhir Dixit.

The Future of Intelligent Transport Systems-George J. Dimitrakopoulos 2020-03-27 The Future of Intelligent Transport Systems considers ITS from three perspectives: users, business models and regulation/policy. Topics cover in-vehicle applications, such as autonomous driving, vehicle-to-vehicle/vehicle-to-infrastructure communication, and related applications, such as personalized mobility. The book also examines ITS technology enablers, such as sensing technologies, wireless communication, computational technology, user behavior as part of the transportation chain, financial models that influence ITS, regulations, policies and standards affecting ITS, and the future of ITS applications. Users will find a holistic approach to the most recent technological advances and the future spectrum of mobility. Systematically presents the whole spectrum of next generation Intelligent Transport Systems (ITS) technologies Integrates coverage of personalized mobility and digital assistants, big data analytics and autonomous driving Includes end-of-chapter, open-ended questions that trigger thinking on the technological, managerial and regulatory aspects of ITS

Heart Failure-Michael Greger 1999

Handbook of Green Information and Communication Systems-Mohammad S. Obaidat 2012-11-20 This book gives a comprehensive guide on the fundamental concepts, applications, algorithms, protocols, new trends and challenges, and research results in the area of Green Information and Communications Systems. It is an invaluable resource giving knowledge on the core and specialized issues in the field, making it highly suitable for both the new and experienced researcher in this area. Key Features: Core research topics of green information and communication systems are covered from a network design perspective, giving both theoretical and practical perspectives Provides a unified covering of otherwise dispersed selected topics on green computing, information, communication and networking Includes a set of downloadable PowerPoint slides and glossary of terms for each chapter A 'whose-who' of international contributors Extensive bibliography for enhancing further knowledge Coverage includes: Smart grid technologies and communications Spectrum management Cognitive and autonomous radio systems Computing and communication architectures Data centres Distributed networking Cloud computing Next generation wireless communication systems 4G access networking Optical core networks Cooperation transmission Security and privacy Core research topics of green information and communication systems are covered from a network design perspective, giving both a theoretical and practical perspective A 'whose-who' of international contributors Extensive bibliography for enhancing further knowledge

The Grid-Maozhen Li 2005-11-01 Find out which technologies enable the Grid and how to employ them successfully! This invaluable text provides a complete, clear, systematic, and practical understanding of the technologies that enable the Grid. The authors outline all the components necessary to create a Grid infrastructure that enables support for a range of wide-area distributed applications. The Grid: Core Technologies takes a pragmatic approach with numerous practical examples of software in context. It describes the middleware components of the Grid step-by-step, and gives hands-on advice on designing and building a Grid environment with the Globus Toolkit, as well as writing applications. The Grid: Core Technologies: Provides a solid and up-to-date introduction to the technologies that underpin the Grid. Contains a systematic explanation of the Grid, including its infrastructure, basic services, job management, user interaction, and applications. Explains in detail OGSA (Open Grid Services Architecture), Web Services technologies (SOAP, WSDL, UDDI), and Grid Monitoring. Covers Web portal-based tools such as the Java CoG, GridPort, GridSphere, and JSR 168 Portlets. Tackles hot topics such as WSRF (Web Services Resource Framework), the Semantic Grid, the Grid Security Infrastructure, and Workflow systems. Offers practical examples to enhance the understanding and use of Grid components and the associated tools. This rich resource will be essential reading for researchers and postgraduate students in computing and engineering departments, IT professionals in distributed computing, as well as Grid end users such as physicists, statisticians, biologists and chemists.

Automated Network Management Systems-Douglas E Comer 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound

book. Automated Network Management Systems is ideal for advanced undergraduate or graduate-level courses in Networking or for professionals managing networks. Network management is an interesting, but intellectually challenging, problem — therefore, there is a big opportunity for research leading to automated systems that manage networks. In this innovative new text, Comer examines possibilities for the future, including ways to build software that automates management tasks. A basic understanding of networking (equivalent to one undergraduate course or experience in the field) is assumed.

Advances in Network Management-Jianguo Ding 2016-04-19 Over the past two decades, business volume of hardware and software in the U.S has decreased by about seventy percent, while the cost of management and support has grown from \$20 billion to \$140 billion. With close to seventy percent of this growing figure being spent on the management of legacy systems and only thirty percent on new systems, improvements in the development of self-managing systems have become a cost-saving priority for many corporations and an issue of strategic importance for many economies. Investigating the latest theories, methods, and technologies, Advances in Network Management provides the insight of a recognized expert into the fundamental concepts and contemporary challenges in network management. From basic concepts to research-level material, it details the evolution of network management solutions in network management paradigms, protocols, and techniques. The book also addresses dependencies between network management and application-level service management. This forward-looking resource investigates advanced networks and network services including—autonomic computing, context-aware systems management, and automatic techniques aiming at self-management (self-configuration, self-healing, self-optimization, and self-protection). With its breadth and depth of coverage in theoretical, technical, and research topics, this book provides time-tested guidance for dealing with the growing complexity of network services while improving cost efficiencies in your IT department.

Pediatric Thoracic Surgery-Mario Lima 2013-09-27 The recent widespread application of minimally invasive techniques has had a profound impact on the diagnosis and therapy of thoracic disorders, including in the pediatric age group. This book is intended as a practical guide to the current approaches in pediatric thoracic surgery. Up-to-date information is provided on the surgical techniques employed for diagnosis and therapy in a wide range of congenital and acquired thoracic pathologies from the prenatal age to adolescence. Among the disorders considered in detail are cystic malformations of the lung, chest wall deformities, diaphragmatic hernias, esophageal anomalies, mediastinal tumors, laryngeal anomalies, and thoracic infections. The authors are distinguished experts in the field from across the world. Pediatric Thoracic Surgery will be of value not only for pediatric thoracic surgeons but also for adult thoracic surgeons, pediatric anesthesiologists, and pediatric respiratory physicians.

Learning from Data Streams-João Gama 2007-10-11 Provides the reader with an overview of stream data processing, including prototype implementations like the Nile system and the TinyOS operating system.