

Corso Di Elettronica Torino

More Progresses in Analysis
 Performance Modelling and Evaluation of ATM Networks
 Proceedings of the 6th Symposium on Frequency Standards and Metrology
 Broadband Access and Network Management
 Turbo Code Applications
 Application and Theory of Petri Nets 1998
 Atti Della Fondazione Giorgio Ronchi Anno LX N.1-2
 Esprit '89
 Novel Applications of the UWB Technologies
 Computer Performance Evaluation
 Handbook of Peer-to-Peer Networking
 Neural Nets WIRN10
 Quality of Service in Multiservice IP Networks
 Frontiers in Optics and Photonics
 Frequency Standards and Metrology
 Journal of Rehabilitation Research & Development
 Future Energy Conferences and Symposia
 20th Century Physics
 Analytical and Stochastic Modeling Techniques and Applications
 PROCEEDINGS 4th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin" VOL. I
 Neurocomputing
 Neural Nets WIRN09
 General Relativity And Gravitational Physics: Proceedings Of The 12th Italian Conference
 Multi-Microprocessor Systems for Real-Time Applications
 Caratteristiche di componenti elettronici
 Atti Della Fondazione Giorgio Ronchi Anno LVII N.3-4
 Computational Intelligent Systems for Applied Research
 Metrology and Fundamental Constants
 World Directory of Crystallographers
 Achieving Safety and Reliability with Computer Systems
 Advances in Wireless Networks
 Journal of Rehabilitation Research and Development
 Atherosclerosis Disease Management
 Computer Aided Learning and Instruction in Science and Engineering
 More Progresses in Analysis
 Trends in Applied Intelligent Systems
 Managing Business Interfaces
 Performance Analysis of ATM Networks
 Frequency Standards and Metrology

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AUBREE PEARSON

More Progresses in Analysis World Scientific

This volume contains the collected papers of the NATO Conference on Neurocomputing, held in Les Arcs in February 1989. For many of us, this conference was reminiscent of another NATO Conference, in 1985, on Disordered Systems [1], which was the first conference on neural nets to be held in France. To some of the participants that conference opened, in a way, the field of neurocomputing (somewhat exotic at that time!) and also allowed for many future fruitful contacts. Since then, the field of neurocomputing has very much evolved and its audience has increased so widely that meetings in the US have often gathered more than 2000 participants. However, the NATO workshops have a distinct atmosphere of free discussions and time for exchange, and so, in 1988, we decided to go for another session. This was an occasion for me and some of the early birds of the 1985 conference to realize how much, and how little too, the field had matured.

Performance Modelling and Evaluation of ATM Networks

Lucia Ronchi

The safe operation of computer systems, in both their software and hardware continues to be a key issue in many real time applications, when people, environment, investment or goodwill can be at risk. Such applications include the monitoring and control of high energy processes, of nuclear and chemical plants, of factory automation, of transportation systems, or funds transfer and of communication and information systems. This book represents the proceedings of the 1987 Safety and Reliability Society Symposium held in Altrincham, UK, 11-12 November 1987. It is thus part of the series of proceedings for Society Events, which in previous years have not addressed the topic of the Safety and Reliability of Computer Systems. The book is also part of another series of reports, and is closely related to the Elsevier Book "Safety and Reliability of Programmable Electronic Systems" which I edited in 1986, and the series of workshops known as SAFECOMP held in 1979, 1982, 1983, 1985, 1986 which are referenced in some of the papers. The structure of the book represents the structure of the Symposium itself. The session titles, and the papers as selected represent the current practice in many industries. The trend is towards more industrial usage of Formal Methods, and tools to support these methods, whilst continuing to make best use of Software Engineering, Safety and Reliability Assessment, and accumulated experience.

Proceedings of the 6th Symposium on Frequency Standards and Metrology Springer

Amiya Chakravarty is a big name in production manufacturing and Josh Elishberg is a huge name in marketing. This is one of

the first books that examines the interface of Marketing and Production, with the chapters written by well-known people in the field. Hardcover version published in December 2003.

Broadband Access and Network Management World Scientific

Recent years have witnessed tremendous growth in the population of mobile users demanding high performance, reliability and quality-of-service (QoS). Wireless networks are undergoing rapid developments and dramatic changes in the underlying technologies, in order to cope with the difficulties posed by the scarce wireless resource as well as keep up with the increasing day-to-day demand for cost-effective service of multimedia applications. Predicting and optimising the performance and QoS of wireless networks using analytical modelling, simulation experiments, monitoring and testbed-based measurements are crucial to the proper design, tuning, resource management and capacity planning of such networks. This book is dedicated to review important developments and results, explore recent state-of-the-art research and discuss new strategies for performance modelling, analysis and enhancement of wireless networks. The objective is to make analytical modelling, simulation and measurement tools, and innovative performance evaluation methodology possible and understandable to a wider audience.

Turbo Code Applications Walter de Gruyter GmbH & Co KG

This book constitutes the refereed proceedings of the Third International Conference on Computer Aided Learning and Instruction in Science and Engineering, CALICSE '96, held in San Sebastián, Spain in July 1996. The 42 revised full papers presented in the book were selected from a total of 134 submissions; also included are the abstracts of full papers of four invited talks and 17 poster presentations. The papers are organized in topical sections on learning environments: modelling and design, authoring and development tools and techniques, CAL in distance learning, multimedia and hypermedia in CAL, and applications in science and engineering.

Application and Theory of Petri Nets 1998 Lucia Ronchi
Frontiers in Optics and Photonics Walter de Gruyter GmbH & Co KG

Atti Della Fondazione Giorgio Ronchi Anno LX N.1-2 Springer Science & Business Media

Performance evaluation, reliability, and performability are key factors in the development and improvement of computer systems and computer networks. This volume contains the 25 accepted and invited papers presented at the 7th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation. The papers focus on new techniques and the extension of existing techniques for performance and reliability analysis. Tools to support performance and reliability modelling and measurement in all kinds of applications and

environments are presented, and the practicability and generality of the approaches are emphasized. The volume summarizes the state of the art and points out future demands and challenges, and will interest both scientists and practitioners.

Esprit '89 Springer Science & Business Media

This book discusses the latest research ideas with application to frequency standards (e.g. optical clocks) and assesses ideas from previous symposia which have undergone critical analysis.

Novel Applications of the UWB Technologies Springer Science & Business Media

This book discusses the latest research ideas with application to frequency standards (e.g. optical clocks) and assesses ideas from previous symposia which have undergone critical analysis.

Computer Performance Evaluation Springer Science & Business Media

International ISAAC (International Society for Analysis, its Applications and Computation) Congresses have been held every second year since 1997. The proceedings report on a regular basis on the progresses of the field in recent years, where the most active areas in analysis, its applications and computation are covered. Plenary lectures also highlight recent results. This volume concentrates mainly on partial differential equations, but also includes function spaces, operator theory, integral transforms and equations, potential theory, complex analysis and generalizations, stochastic analysis, inverse problems, homogenization, continuum mechanics, mathematical biology and medicine. With over 350 participants attending the congress, the book comprises 140 papers from 211 authors. The volume also serves for transferring personal information about the ISAAC and its members. This volume includes citations for O. Besov, V. Burenkov and R.P. Gilbert on the occasion of their anniversaries.

Handbook of Peer-to-Peer Networking IOS Press

Over the last decade of the 20th century, many improvements took place in the field of metrology and fundamental constants. These developments and improvements are discussed in this book. The old caesium SI second definition has found a new realization with the fountain approach, replacing the classical thermal atomic beam. The use of cold atom techniques, slowed down and cooled, has opened a number of unexpected avenues for metrology and fundamental constants, one of these possibilities being the atom interferometry. Another development was the demonstration of the possibility of performing a direct frequency division in the visible, using short femtosecond pulses. Many other developments are also discussed.

Neural Nets WIRN10 World Scientific

Turbo Code Applications: a journey from a paper to realization presents c- temporary applications of turbo codes in thirteen technical chapters. Each chapter focuses on a particular communication technology utilizing turbo codes, and they are

written by experts who have been working in related areas from around the world. This book is published to celebrate the 10 year anniversary of turbo codes invention by Claude Berrou Alain Glavieux and Punya Thitimajshima (1993-2003). As known for more than a decade, turbo code is the astonishing error control coding scheme which its performance closes to the Shannon's limit. It has been honored consequently as one of the seventeen great innovations during the first twenty years of information theory foundation. With the amazing performance compared to that of other existing codes, turbo codes have been adopted into many communication systems and incorporated with various modern industrial standards. Numerous research works have been reported from universities and advance companies worldwide. Evidently, it has successfully revolutionized the digital communications. Turbo code and its successors have been applied in most communications

starting from the ground terrestrial systems of data storage, ADSL modem, and fiber optic communications. Subsequently, it moves up to the air channel applications by employing to wireless communication systems, and then rises up to the space by using in digital video broadcasting and satellite communications.

Undoubtedly, with the excellent error correction potential, it has been selected to support data transmission in space exploring system as well.

Quality of Service in Multiservice IP Networks Springer Science & Business Media

This volume can be justified by the following three facts, the need to provide, from time to time, a co-ordinated set of lectures which present the relevant progress in Metrology, the increasing intertwining between Fundamental Physics and the practice of Metrological Measurements, and, third, the flurry of new and unexpected discoveries in this field, with a correlated series of Nobel Prizes bestowed to individuals working in Fundamental Constants research and novel experimental methods. One of the most fascinating and exciting characteristics of metrology is its intimate relationship between fundamental physics and the leading edge of technology which is needed to perform advanced and challenging experiments and measurements, as well as the determination of the values and interrelations between the Fundamental Constants. In some cases, such as the caesium fountains clocks or the optical frequency standards, the definition of the value of a quantity is, in the laboratory, in the region of 10⁻¹⁶ and experiments are under way to reach 10⁻¹⁸. Many of these results and the avenues leading to further advances are discussed in this volume, along a major step in metrology, expected in the near future, which could change the "old" definition of the kilogram, still based on a mechanical artefact, toward a new definition resting on a fixed value of a fundamental constant.

Frontiers in Optics and Photonics IOS Press

From the individual to the largest organization, everyone today has to make investments in information technology. Making a good investment that will best satisfy all the necessary decision criteria requires a careful and inclusive analysis. Information Technology Investment: Decision-Making Methodology is a textbook that will provide the understanding of methodologies available to aid in this area of complex, multi-criterion decision-making. It presents a detailed, step-by-step set of procedures and methodologies that readers can use immediately to improve their IT investment decision-making. Unique to this textbook are both financial investment models and more complex decision-making models from management science, so users can extend the analysis benefits to confirm and enhance the ideal IT investment choices. A complimentary copy of the 'Instructor's Manual and Test Bank' and the PowerPoint presentations of the text materials are available for all instructors who adopt this book as a course text. Please send your request to sales@wspc.com.

Frequency Standards and Metrology IOS Press

Over recent years, a considerable amount of effort has been devoted, both in industry and academia, towards the performance modelling, evaluation and prediction of Asynchronous Transfer Mode (ATM) networks. This book describes recent advances in ATM networks reflecting the state-of-the-art technology and research achievements worldwide. In addition, it provides a fundamental source of reference in the ATM field. Research topics discussed in detail include: Traffic Modelling and Characterisation; Routing; Switch and Multiplexer Models; Call Admission Control (CAC); Congestion Control; Resource Allocation; Quality of Service (QoS); Tools and Techniques. This volume contains recently extended refereed papers of the 5th International Workshop on Performance Modelling and Evaluation of ATM Networks, which was sponsored by the International Federation for Information Processing (IFIP) and held in Ilkley, UK in July 1997. Performance Analysis of ATM Networks continues the tradition established by the first three IFIP volumes on the subject, and it is ideal for personnel in computer/communication industries as well as academic and research staff in computer science and electrical engineering.

Journal of Rehabilitation Research & Development IOS Press

This book provides a cutting-edge research overview on the latest developments in the field of Optics and Photonics. All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics, Optical properties of 2D Materials, Optical Sensors, Organic Opto-electronics, Nanophotonics, Metamaterials, Plasmonics, Quantum Cascade lasers, LEDs, Biophotonics and biomedical photonics and spectroscopy.

Future Energy Conferences and Symposia Springer Science & Business Media

This book constitutes the refereed proceedings of the Third International Workshop on Quality of Service in Multiservice IP Networks, QoS-IP 2005, held in Catania, Italy in February 2005. The 50 revised full papers presented were carefully reviewed and selected from around 100 submissions. The papers are organized in topical sections on analytical models, traffic characterization, MPLS failure and restoration, network planning and dimensioning, DiffServ and IntServ, routing, software routers, network architectures for QoS provisioning, multiservice in wireless networks, TCP in special environments, and scheduling.

20th Century Physics World Scientific

The 6th ESPRIT Conference is being held in Brussels from the 27th November to the 1st December 1989. Well over 1500 participants from all over Europe are expected to attend the various events during the week. The Conference will offer the opportunity to be updated on the results of ongoing Esprit projects and to develop Europe-wide contacts with colleagues, both within a specific branch of Information Technology and across different branches. The first three days of the week are devoted to presentations of Esprit I projects, structured into plenary and parallel sessions; this year there is special emphasis on panels and workshops where participants can exchange ideas and hold in-depth discussions on specific topics. The different areas of Esprit work are covered: Microelectronics, Information Processing Systems, Office and Business Systems, Computer Integrated Manufacturing, Basic Research and different aspects of the Information Exchange System. During the IT Forum on Thursday 30th November, major European industrial and political decision-makers will address the audience in the morning. In the afternoon, different aspects of Technology Transfer will be discussed with the participation of outside experts, and presentations on the future plans for community R&D in IT will take place.

Analytical and Stochastic Modeling Techniques and Applications Springer Science & Business Media

Asynchronous Transfer Mode (ATM) networks are widely

considered to be the new generation of high speed communication systems both for broadband public information highways and for local and wide area private networks. ATM is designed to integrate existing and future voice, audio, image and data services. Moreover, ATM aims to simplify the complexity of switching and buffer management, to optimise intermediate node processing and buffering and to limit transmission delays. However, to support such diverse services on one integrated communication network, it is most essential, through careful engineering, to achieve a fruitful balance amongst the conflicting requirements of different quality of service constraints ensuring that one service does not have adverse implications on another. Over recent years there has been a great deal of progress in research and development of ATM technology, but there are still many interesting and important problems to be resolved such as traffic characterisation and control, routing and optimisation, ATM switching techniques and the provision of quality of service. This book presents thirty-two research papers, both from industry and academia, reflecting latest original achievements in the theory and practice of performance modelling of ATM networks worldwide. These papers were selected, subject to peer review, from those submitted as extended and revised versions out of fifty-nine shorter papers presented at the Second IFIP Workshop on "Performance Modelling and Evaluation of ATM Networks" July 4-7, 1994, Bradford University. At least three referees from the scientific committee and externally were involved in the selection of each paper.

PROCEEDINGS 4th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin" VOL. I Frontiers in Optics and Photonics

In this important volume, major events and personalities of 20th century physics are portrayed through recollections and historiographical works of one of the most prominent figures of European science. A former student of Enrico Fermi, and a leading personality of physical research and science policy in postwar Italy, Edoardo Amaldi devoted part of his career to documenting, both as witness and as historian, some significant moments of 20th century science. The focus of the book is on the European scene, ranging from nuclear research in Rome in the 1930s to particle physics at CERN, and includes biographies of physicists such as Ettore Majorana, Bruno Touschek and Fritz Houtermans. Edoardo Amaldi (Carpaneto, 1908 - Roma, 1989) was one of the leading figures in twentieth century Italian science. He was conferred his degree in physics at Rome University in 1929 and played an active role (as a member of the team of young physicists known as 'the boys of via Panisperna') in the fundamental research on artificial induced radioactivity and the properties of neutrons, which won the group's leader Enrico Fermi the Nobel Prize for physics in 1938. Following Fermi's departure for the United States in 1938 and the disruption of the original group, Amaldi took upon himself the task of reorganising the research in physics in the difficult situation of post-war Italy. His own research went from nuclear physics to cosmic ray physics, elementary particles and, in later years, gravitational waves. Active research was for him always coupled to a direct involvement as a statesman of science and an organiser: he was the leading figure in the establishment of INFN (National Institute for Nuclear Physics) and has played a major role, as spokesman of the Italian scientific community, in the creation of CERN, the large European laboratory for high energy physics. He also actively supported the formation of a similar trans-national joint venture in space science, which gave birth to the European Space Agency. In these and several other scientific organisations, he was often entrusted with directive responsibilities. In his later years, he developed a keen interest in the history of his discipline. This gave rise to a rich production of historiographic material, of which a significant sample is collected in this volume.