

Ankara University Computer Engineering Department

Handbook of Research on Distributed Medical Informatics and E-Health Collaborative and Social Information Retrieval and Access: Techniques for Improved User Modeling Nanosensors for Smart Cities Advances in Computational Science, Engineering and Information Technology Software Process Improvement for Small and Medium Enterprises: Techniques and Case Studies Sensors for Diagnostics and Monitoring Progress in Pattern Recognition, Image Analysis and Applications Mathematical Reviews Nanopatterning and Nanoscale Devices for Biological Applications Multidisciplinary Perspectives on Telecommunications, Wireless Systems, and Mobile Computing Logics for Emerging Applications of Databases Computational Science -- ICCS 2005 Computer and Information Sciences -- ISCIS 2003 Proceedings ENTERFACE 2007 Communications Artificial Neural Networks in Pattern Recognition Soft Computing Applications for Database Technologies Industrial Wireless Sensor Networks Conventional and Advanced Food Processing Technologies Computational Science - ICCS 2007 Mathematical Methods in Engineering IEEE Membership Directory Embedded Computer Systems: Architectures, Modeling, and Simulation Theory and Practice of Cryptography Solutions for Secure Information Systems Mobile Web Information Systems Technologies for E-Services Who's who in Science in Europe Submarine

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Handbook of Research on Distributed Medical Informatics and E-Health

This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2011, held in Norwich, UK, in September 2011. The 59 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book and present the latest theoretical advances and real-world applications in computational intelligence.

Collaborative and Social Information Retrieval and Access:

Techniques for Improved User Modeling

The purpose of the 11th International Conference on Software Engineering Research, Management and Applications (SERA 2013) held on August 7 - 9, 2012 in Prague, Czech Republic was to bring together scientists, engineers, computer users, and students to share their experiences and exchange new ideas and research results about all aspects (theory, applications and tools) of Software Engineering Research, Management and Applications, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them. The conference organizers selected 17 outstanding papers from those papers accepted for presentation at the conference in order to publish them in this volume. The papers were chosen based on review scores submitted by members of the program committee, and further rigorous rounds of review.

Nanosensors for Smart Cities

The two-volume set LNCS 5592 and 5593 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2009, held in Seoul, Korea, in June/July, 2009. The two volumes contain papers presenting a wealth of original research results in the field of computational science, from foundational issues in computer science and mathematics to

advanced applications in virtually all sciences making use of computational techniques. The topics of the fully refereed papers are structured according to the five major conference themes: computational methods, algorithms and scientific applications, high performance technical computing and networks, advanced and emerging applications, as well as information systems and information technologies. Moreover, submissions from more than 20 workshops and technical sessions contribute to this publication. These cover topics such as geographical analysis, urban modeling, spatial statistics, wireless and ad hoc networking, logical, scientific and computational aspects of pulse phenomena in transitions, high-performance computing and information visualization, sensor network and its applications, molecular simulations structures and processes, collective evolutionary systems, software engineering processes and applications, molecular simulations structures and processes, internet communication security, security and privacy in pervasive computing environments, and mobile communications.

Advances in Computational Science, Engineering and Information Technology

Lecture Series on Computer and on Computational Sciences (LSCCS) aims to provide a medium for the publication of new results and developments of high-level research and education in the field of computer and computational science. In

this series, only selected proceedings of conferences in all areas of computer science and computational sciences will be published. All publications are aimed at top researchers in the field and all papers in the proceedings volumes will be strictly peer reviewed. The series aims to cover the following areas of computer and computational sciences: Computer Science Hardware Computer Systems Organization Software Data Theory of Computation Mathematics of Computing Information Systems Computing Methodologies Computer Applications Computing Milieu Computational Sciences Computational Mathematics, Theoretical and Computational Physics, Theoretical and Computational Chemistry Scientific Computation Numerical and Computational Algorithms, Modeling and Simulation of Complex System, Web-Based Simulation and Computing, Grid-Based Simulation and Computing Fuzzy Logic, Hybrid Computational Methods, Data Mining and Information Retrieval and Virtual Reality, Reliable Computing, Image Processing, Computational Science and Education

Software Process Improvement for Small and Medium Enterprises: Techniques and Case Studies

This book is the proceedings of Third International Conference on Computational Science, Engineering and Information Technology (CCSEIT-2013) that was held in Konya, Turkey, on June 7-9. CCSEIT-2013 provided an excellent international forum

for sharing knowledge and results in theory, methodology and applications of computational science, engineering and information technology. This book contains research results, projects, survey work and industrial experiences representing significant advances in the field. The different contributions collected in this book cover five main areas: algorithms, data structures and applications; wireless and mobile networks; computer networks and communications; natural language processing and information theory; cryptography and information security.

Sensors for Diagnostics and Monitoring

The collaborative nature of industrial wireless sensor networks (IWSNs) brings several advantages over traditional wired industrial monitoring and control systems, including self-organization, rapid deployment, flexibility, and inherent intelligent processing. In this regard, IWSNs play a vital role in creating more reliable, efficient, and productive industrial systems, thus improving companies' competitiveness in the marketplace. Industrial Wireless Sensor Networks: Applications, Protocols, and Standards examines the current state of the art in industrial wireless sensor networks and outlines future directions for research. What Are the Main Challenges in Developing IWSN Systems? Featuring contributions by researchers around the world, this book explores the software and hardware platforms, protocols, and standards that are needed to address the

unique challenges posed by IWSN systems. It offers an in-depth review of emerging and already deployed IWSN applications and technologies, and outlines technical issues and design objectives. In particular, the book covers radio technologies, energy harvesting techniques, and network and resource management. It also discusses issues critical to industrial applications, such as latency, fault tolerance, synchronization, real-time constraints, network security, and cross-layer design. A chapter on standards highlights the need for specific wireless communication standards for industrial applications. A Starting Point for Further Research Delving into wireless sensor networks from an industrial perspective, this comprehensive work provides readers with a better understanding of the potential advantages and research challenges of IWSN applications. A contemporary reference for anyone working at the cutting edge of industrial automation, communication systems, and networks, it will inspire further exploration in this promising research area.

Progress in Pattern Recognition, Image Analysis and Applications

This book contains some of the contributions that have been carefully selected and peer-reviewed, which were presented at the International Symposium MME06 Mathematical Methods in Engineering, held in Cankaya University, Ankara, April

2006. The Symposium provided a setting for discussing recent developments in Fractional Mathematics, Neutrices and Generalized Functions, Boundary Value Problems, Applications of Wavelets, Dynamical Systems and Control Theory.

Mathematical Reviews

This book constitutes the refereed proceedings of the Third TC3 IAPR Workshop on Artificial Neural Networks in Pattern Recognition, ANNPR 2008, held in Paris, France, in July 2008. The 18 revised full papers and 11 revised poster papers presented were carefully reviewed and selected from 57 submissions. The papers combine many ideas from machine learning, advanced statistics, signal and image processing for solving complex real-world pattern recognition problems. The papers are organized in topical sections on unsupervised learning, supervised learning, multiple classifiers, applications, and feature selection.

Nanopatterning and Nanoscale Devices for Biological Applications

This book constitutes the refereed proceedings of the 11th Iberoamerican Congress on Pattern Recognition, CIARP 2006, held in Cancun, Mexico in November 2006. The 99 revised full papers presented together with three keynote articles

were carefully reviewed and selected from 239 submissions. The papers cover ongoing research and mathematical methods.

Multidisciplinary Perspectives on Telecommunications, Wireless Systems, and Mobile Computing

This book constitutes the refereed proceedings of the 11th International Conference on Mobile Web and Information Systems, MobiWIS 2014, held in Barcelona, Spain, in August 2014. The 24 papers presented were carefully reviewed and selected from 75 submissions and cover topics such as: mobile software systems, middleware/SOA for mobile systems, context- and location-aware services, data management in the mobile web, mobile cloud services, mobile web of things, mobile web security, trust and privacy, mobile networks, protocols and applications, mobile commerce and business services, HCI in mobile applications, social media, and adaptive approaches for mobile computing.

Logics for Emerging Applications of Databases

"This book deals with the improvement of user modeling in the context of Collaborative and Social Information Access and Retrieval (CSIRA) techniques"--Provided by publisher.

Computational Science -- ICCS 2005

This book constitutes the refereed proceedings of the 9th International Workshop on Architectures, Modeling, and Simulation, SAMOS 2009, held on Samos, Greece, on July 20-23, 2009. The 18 regular papers presented were carefully reviewed and selected from 52 submissions. The papers are organized in topical sections on architectures for multimedia, multi/many cores architectures, VLSI architectures design, architecture modeling and exploration tools. In addition there are 14 papers from three special sessions which were organized on topics of current interest: instruction-set customization, reconfigurable computing and processor architectures, and mastering cell BE and GPU execution platforms.

Computer and Information Sciences -- ISCIS 2003

Part of a four-volume set, this book constitutes the refereed proceedings of the 7th International Conference on Computational Science, ICCS 2007, held in Beijing, China in May 2007. The papers cover a large volume of topics in computational science and related areas, from multiscale physics to wireless networks, and from graph theory to tools for program development.

Proceedings ENTERFACE 2007

The 6th Workshop on Technologies for E-Services (TES-05) was held September 2-3, 2005, in conjunction with the 31st International Conference on Very Large Data Bases (VLDB 2005) in Trondheim, Norway. The next generation of applications will be developed in the form of services that are offered over a network, either a company's intranet or the Internet. Service-based architectures depend on an infrastructure that allows service providers to describe and advertise their services and service consumers to discover and select the services that best fulfill their requirements. Frameworks and messaging protocols for e-services in stationary and mobile environments are being developed and standardized, metadata and ontologies are being defined, and mechanisms are under development for service composition, delivery, monitoring, and payment. End-to-end security and quality of service guarantees will be essential for the acceptance of e-services. As e-services become pervasive, e-service management will play a central role. The workshop's objective is to provide a forum for researchers and practitioners to present new developments and experience reports. The goal of the TES workshop is to identify the technical issues, models, and infrastructures that enable enterprises to provide e-services to other businesses and individual customers. In response to the call for submissions, 40 papers were submitted, out of which the Program Committee selected 10 high-quality submissions for presentation at the workshop. Unfortunately, one author had to withdraw, and the remaining nine papers that were presented are included in these proceedings.

Communications

Artificial Neural Networks in Pattern Recognition

In this work, an iterative approach using the finite difference frequency domain method is presented to solve the problem of scattering from large-scale electromagnetic structures. The idea of the proposed iterative approach is to divide one computational domain into smaller subregions and solve each subregion separately. Then the subregion solutions are combined iteratively to obtain a solution for the complete domain. As a result, a considerable reduction in the computation time and memory is achieved. This procedure is referred to as the iterative multiregion (IMR) technique. Different enhancement procedures are investigated and introduced toward the construction of this technique. These procedures are the following: 1) a hybrid technique combining the IMR technique and a method of moment technique is found to be efficient in producing accurate results with a remarkable computer memory saving; 2) the IMR technique is implemented on a parallel platform that led to a tremendous computational time saving; 3) together, the multigrid technique and the incomplete lower and upper preconditioner are used with the IMR technique to speed up the convergence rate of the final solution, which reduces the total computational time. Thus, the

proposed iterative technique, in conjunction with the enhancement procedures, introduces a novel approach to solving large open-boundary electromagnetic problems including unconnected objects in an efficient and robust way. Contents: Basics of the FDFD Method / IMR Technique for Large-Scale Electromagnetic Scattering Problems: 3D Case / IMR Technique for Large-Scale Electromagnetic Scattering Problems: 2D Case / The IMR Algorithm Using a Hybrid FDFD and Method of Moments Technique / Parallelization of the Iterative Multiregion Technique / Combined Multigrid Technique and IMR Algorithm / Concluding Remarks / Appendices

Soft Computing Applications for Database Technologies

Nanosensors for Smart Cities covers the fundamental design concepts and emerging applications of nanosensors for the creation of smart city infrastructures. Examples of major applications include logistics management, where nanosensors could be used in active transport tracking devices for smart tracking and tracing, and in agri-food productions, where nanosensors are used in nanochips for identity, and food inspection, and smart storage. This book is essential reading for researchers working in the field of advanced sensors technology, smart city technology and nanotechnology, and stakeholders involved in city management. Nanomaterials based sensors (nanosensors) can offer many advantages over their microcounterparts, including lower power consumption, high sensitivity, lower

concentration of analytes, and smaller interaction distance between object and sensor. With the support of artificial intelligence (AI) tools, such as fuzzy logic, genetic algorithms, neural networks, and ambient-intelligence, sensor systems are becoming smarter. Provides information on the fabrication and fundamental design concepts of nanosensors for intelligent systems Explores how nanosensors are being used to better monitor and maintain infrastructure services, including street lighting, traffic management and pollution control Assesses the challenges for creating nanomaterials-enhanced sensors for mass-market consumer products

Industrial Wireless Sensor Networks

The development of new information and communication technologies has a considerable impact on the way humans interact with each other and their environment. The proper use of these technologies is an important consideration in the success of modern human endeavors. Multidisciplinary Perspectives on Telecommunications, Wireless Systems, and Mobile Computing explores some of the latest advances in wireless communication technologies, making use of empirical research and analytical case studies to evaluate best practices in the discipline. This book will provide insight into the next generation of information and communication technologies for developers, engineers, students, researchers, and managers in the telecommunications field.

Conventional and Advanced Food Processing Technologies

This book constitutes the refereed proceedings of the 18th International Symposium on Computer and Information Sciences, ISCIS 2003, held in Antalya, Turkey in November 2003. The 135 revised papers presented together with 2 invited papers were carefully reviewed and selected from over 360 submissions. The papers are organized in topical sections on architectures and systems, theoretical computer science, databases and information retrieval, e-commerce, graphics and computer vision, intelligent systems and robotics, multimedia, networks and security, parallel and distributed computing, soft computing, and software engineering.

Computational Science - ICCS 2007

Nanoscale techniques and devices have had an explosive influence on research in life sciences and bioengineering. Reflecting this influence, Nanopatterning and Nanoscale Devices for Biological Applications provides valuable insight into the latest developments in nanoscale technologies for the study of biological systems. Written and edited by experts in the field, this first-of-its-kind collection of topics: Covers device fabrication methods targeting the substrate on the nanoscale through surface modification Explores the generation of nanostructured

biointerfaces and bioelectronics elements Examines microfluidically generated droplets as reactors enabling nanoscale sample preparation and analysis Gives an overview of key biosensors and integrated devices with nanoscale functionalities Discusses the biological applications of nanoscale devices, including a review of nanotechnology in tissue engineering Readers gain a deep understanding of the cutting-edge applications of nanotechnologies in biological engineering, and learn how to apply the relevant scientific concepts to their own research. Nanopatterning and Nanoscale Devices for Biological Applications is the definitive reference for researchers in engineering, biology, and biomedicine, and for anyone exploring the newest trends in this innovative field.

Mathematical Methods in Engineering

In this era of heterogeneous and distributed data sources, ranging from semistructured documents to knowledge about coordination processes or workflows, logic provides a rich set of tools and techniques with which to address the questions of how to represent, query and reason about complex data. This book provides a state-of-the-art overview of research on the application of logic-based methods to information systems, covering highly topical and emerging fields: XML programming and querying, intelligent agents, workflow modeling and verification, data integration, temporal and dynamic information, data mining, authorization, and security. It provides both scientists and graduate students with

a wealth of material and references for their own research and education.

IEEE Membership Directory

Addresses the field of enterprise systems, covering progressive technologies, leading theories, and advanced applications.

Embedded Computer Systems: Architectures, Modeling, and Simulation

This volume constitutes the proceedings of the 4th International Conference on Database and Expert Systems Applications (DEXA), held in Prague, Czech Republic, in September 1993. Traditionally the objective of the DEXA conferences is to serve as an international forum for the discussion and exchange of research results and practical experience among theoreticians and professionals working in the field of database and artificial intelligence technologies. Despite the fact that in the conference title the applications aspect is mentioned explicitly, the theoretical and the practical points of view in the field are well-balanced in the program of DEXA'93. The growing importance of the conference series is outlined by the remarkably high number of 269 submissions and by the support given by renowned organizations. DEXA'93 is held for the first time outside the former GDR in an East-

European country, and is essentially contributing to the advancement of the East-West scientific cooperation in the field of database and AI systems. This proceedings contains the 78 contributed papers carefully selected by an international program committee with the support of a high number of subreferees. The volume is organized in sections on data models, distributed databases, advanced database aspects, database optimization and performance evaluation, spatial and geographic databases, expert systems and knowledge engineering, legal systems, other database and artificial intelligence applications, software engineering, and hypertext/hypermedia and user interfaces.

Theory and Practice of Cryptography Solutions for Secure Information Systems

This book is based on the proceedings of the Colloquium on Mathematics and Computer Science held in the University of Versailles-St-Quentin on September 18-20, 2000. It contains articles on topics that are relevant both to Mathematics and to Computer Science. These articles have been selected throughout a rigorous process; each of them has been submitted to two referees at least. This selection process, which took place under the supervision of the scientific committee, ensures the high level and the originality of the contributions. We thank the invited speakers, the authors, the participants to the colloquium and, of course, the

Scientific Committee whose members were D. Aldous, F. Baccelli, P. Cartier, B. Chauvin, P. Flajolet, J.M. Fourneau, D. Gardy, D. Gouyou Beauchamps, R. Kenyon, J.F. Le Gall, C. Lemarechal, R. Lyons, A. Mokkaem, A. Rouault and C. Roucairol. We also take this opportunity to thank the University of Versailles-St-Quentin, the University of Paris-Sud (Orsay) and the Centre National de la Recherche Scientifique (CNRS), whose financial and material support contributed to the success of the Colloquium.

Mobile Web Information Systems

Tsunamis are water waves triggered by impulsive geologic events such as sea floor deformation, landslides, slumps, subsidence, volcanic eruptions and bolide impacts. Tsunamis can inflict significant damage and casualties both nearfield and after evolving over long propagation distances and impacting distant coastlines. Tsunamis can also effect geomorphologic changes along the coast. Understanding tsunami generation and evolution is of paramount importance for protecting coastal population at risk, coastal structures and the natural environment. Accurately and reliably predicting the initial waveform and the associated coastal effects of tsunamis remains one of the most vexing problems in geophysics, and -with few exceptions- has resisted routine numerical computation or data collection solutions. While ten years ago, it was believed that the generation problem was adequately understood for useful predictions, it is now clear that it is not,

especially nearfield. By contrast, the runup problem earlier believed intractable is now well understood for all but the most extreme breaking wave events.

Technologies for E-Services

"This book investigates the advent of soft computing and its applications in database technologies"--Provided by publisher.

Who's who in Science in Europe

July 15 - August 12, Bogazici University Campus eINTERFACE'07 took place in Istanbul, at the campus of the Bogazici University. The one month long workshop was attended by 140 people. The workshop was organized around 12 well-defined projects, as the

Submarine Landslides and Tsunamis

Volumes for 1972- include also scientists from the East European countries.

Electromagnetic Scattering Using the Iterative Multiregion Technique

Software engineering is of major importance to all enterprises; however, the key areas of software quality and software process improvement standards and models are currently geared toward large organizations, where most software organizations are small and medium enterprises. *Software Process Improvement for Small and Medium Enterprises: Techniques and Case Studies* offers practical and useful guidelines, models, and techniques for improving software processes and products for small and medium enterprises, utilizing the authoritative, demonstrative tools of case studies and lessons learned to provide academics, scholars, and practitioners with an invaluable research source.

Environmental Profile of Turkey

Information Systems (IS) are a nearly omnipresent aspect of the modern world, playing crucial roles in the fields of science and engineering, business and law, art and culture, politics and government, and many others. As such, identity theft and unauthorized access to these systems are serious concerns. *Theory and Practice of Cryptography Solutions for Secure Information Systems* explores current trends in IS security technologies, techniques, and concerns, primarily through the use of cryptographic tools to safeguard valuable information resources. This reference book serves the needs of professionals, academics, and students requiring dedicated information systems free from outside interference, as well as

developers of secure IS applications. This book is part of the Advances in Information Security, Privacy, and Ethics series collection.

Computational Science and Its Applications - ICCSA 2009

This book constitutes the refereed proceeding of the 7th International Conference on Flexible Query Answering Systems, FQAS 2006, held in Milan, Italy in June 2006. The 60 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on flexibility in database management and querying, vagueness and uncertainty in XML querying and retrieval, information retrieval and filtering, multimedia information access, user modeling and personalization, knowledge and data extraction, intelligent information extraction from text, and knowledge representation and reasoning.

Intelligent Data Engineering and Automated Learning -- IDEAL 2011

Software Engineering Research, Management and Applications

Papers from an October 2002 symposium describe research in areas including algorithms, artificial intelligence, computer graphics, computer networks, databases, evolutionary computation, graph theory, image processing, multimedia technology, software engineering, and software performance engineering. Some specific topics are packet selection in a deflection routing algorithm, honeycomb subdivision, a new image-based lighting method, visualizing transition diagrams of action language programs, and solution stability in evolutionary computation. Other subjects include control of lightpaths in heterogeneous optical networks, exploiting semantic constraints in a database browser, and bandwidth allocation in bluetooth scatternets. There is no subject index. Annotation copyrighted by Book News, Inc., Portland, OR

International Symposium on Computer and Information Sciences

Provides coverage of specific topics and issues in healthcare, highlighting recent trends and describing the latest advances in the field.

Mathematics and Computer Science

Classical and Modern Direction of Arrival Estimation contains both theory and

practice of direction finding by the leading researchers in the field. This unique blend of techniques used in commercial DF systems and state-of-the art super-resolution methods is a valuable source of information for both practicing engineers and researchers. Key topics covered are: Classical methods of direction finding Practical DF methods used in commercial systems Calibration in antenna arrays Array mapping, fast algorithms and wideband processing Spatial time-frequency distributions for DOA estimation DOA estimation in threshold region Higher order statistics for DOA estimation Localization in sensor networks and direct position estimation Brings together in one book classical and modern DOA techniques, showing the connections between them Contains contributions from the leading people in the field Gives a concise and easy- to- read introduction to the classical techniques Evaluates the strengths and weaknesses of key super-resolution techniques Includes applications to sensor networks

Database and Expert Systems Applications

Sensor technologies and applications are evolving rapidly driven by the demand for new sensors for monitoring and diagnostic purposes to enable improvements in human health and safety. Simultaneously, sensors are required to consume less power, be autonomous, cost less, and be connected by the Internet of Things. New sensor technologies are being developed to fulfill these needs. This book reviews the latest developments in sensor technology and gives the reader an overview of

the state-of-the-art in key areas, such as sensors for diagnostics and monitoring. Features Provides an overview of sensor technologies for monitoring and diagnostics applications. Presents state-of-the-art developments in selected topics for sensors that can be used for monitoring and diagnostics in future healthcare, structural monitoring, and smart environment applications. Features contributions from leading international experts in both industry and academia. Explores application areas that include medical diagnostics and screening, health monitoring, smart textiles, and structural monitoring.

Classical and Modern Direction-of-Arrival Estimation

Handbook of Research on Enterprise Systems

Food processing technologies are an essential link in the food chain. These technologies are many and varied, changing in popularity with changing consumption patterns and product popularity. Newer process technologies are also being evolved to provide the added advantages. Conventional and Advanced Food Processing Technologies fuses the practical (application, machinery), theoretical (model, equation) and cutting-edge (recent trends), making it ideal for industrial, academic and reference use. It consists of two sections, one covering conventional

or well-established existing processes and the other covering emerging or novel process technologies that are expected to be employed in the near future for the processing of foods in the commercial sector. All are examined in great detail, considering their current and future applications with added examples and the very latest data. Conventional and Advanced Food Processing Technologies is a comprehensive treatment of the current state of knowledge on food processing technology. In its extensive coverage, and the selection of reputed research scientists who have contributed to each topic, this book will be a definitive text in this field for students, food professionals and researchers.

International e-Conference of Computer Science 2006

Flexible Query Answering Systems

The three-volume set LNCS 3514-3516 constitutes the refereed proceedings of the 5th International Conference on Computational Science, ICCS 2005, held in Atlanta, GA, USA in May 2005. The 464 papers presented were carefully reviewed and selected from a total of 834 submissions for the main conference and its 21 topical workshops. The papers span the whole range of computational science, ranging from numerical methods, algorithms, and computational kernels to programming

environments, grids, networking, and tools. These fundamental contributions dealing with computer science methodologies and techniques are complemented by papers discussing computational applications and needs in virtually all scientific disciplines applying advanced computational methods and tools to achieve new discoveries with greater accuracy and speed.

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