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Cities Applications Volume 5 Smart Card Research and Advanced Applications Security in Pervasive Computing 2019 International Conference on Electromagnetics in Advanced Applications (ICEAA) Database systems for advanced applications FCC Record

Numerical Mathematics and Advanced Applications 2012-12-06

an invaluable instrument for gaining a wide ranging perspective on the latest developments in mathematical aspects of scientific computing discovering new applications and the most recent developments in long standing applications provides an insight into the state of the art of numerical mathematics and more generally into the field of advanced applications

Power Electronics, Drives, and Advanced Applications 2020-03-27

concern for reliable power supply and energy efficient system design has led to usage of power electronics based systems including efficient electric power conversion and power semiconductor devices this book provides integration of complete fundamental theory design simulation and application of power electronics and drives covering up to date subject components it contains twenty one chapters arranged in four sections on power semiconductor devices basic power electronic converters advanced power electronics converters power supplies electrical drives and advanced applications aimed at senior undergraduate and graduate students in electrical engineering and power electronics including related professionals this book includes electrical drives such as dc motor ac motor special motor high performance motor drives solar electrical hybrid vehicle and fuel cell drives reviews advances in renewable energy technologies wind pv hybrid power systems and their integration explores topics like distributed generation microgrid and wireless power transfer system includes simulation examples using matlab simulink and over four hundred solved unsolved and review problems

Numerical Mathematics and Advanced Applications ENUMATH 2017 2019-01-05

this book collects many of the presented papers as plenary presentations mini symposia invited presentations or contributed talks from the european conference on numerical mathematics and advanced applications enumath 2017 the conference was organized by the university of bergen norway from september 25 to 29 2017 leading experts in the field presented the latest results and ideas in the designing implementation and analysis of numerical algorithms as well as their applications to relevant societal problems enumath is a series of conferences held every two years to provide a forum for discussing basic aspects and new trends in numerical mathematics and scientific and industrial applications these discussions are upheld at the highest level of international expertise the first enumath conference was held in paris in 1995 with successive conferences being held at various locations across europe including heidelberg 1997 jyvaskyla 1999 lschia porto 2001 prague 2003 santiago de compostela 2005 graz 2007 uppsala 2009 leicester 2011 lausanne 2013 and ankara 2015

Textiles for Advanced Applications 2017-09-20

this book presents a global view of the development and applications of technical textiles with the description of materials structures properties characterizations functions and relevant production technologies case studies challenges and opportunities technical textile is a transformative research area dealing with the creation and studies of new generations of textiles that hoist many new scientific and technological challenges that have never been encountered before the book emphasizes more on the principles of textile science and technology to provide solutions to several engineering problems all chapter topics are exclusive and selectively chosen and designed and they are extensively explored by different

authors having specific knowledge in each area

<u>2016 42th Euromicro Conference on Software Engineering and Advanced Applications (SEAA)</u> 2016-08-31

the 42nd euromicro conference series on software engineering and advanced applications seaa is a long standing international forum for researchers practitioners from business and industry and students to present and discuss the latest innovations trends experiences and concerns in the field of software engineering and advanced applications in information technology for software intensive systems

Polymeric and Nanostructured Materials 2018-09

this volume provides in depth knowledge and recent research on polymers and nanostructured materials from synthesis to advanced applications leading researchers from industry academia government and private research institutions across the globe have contributed to this volume covering new research on nanocomposites polymer technology and electrochemistry

Database Systems for Advanced Applications '97 1997

this volume contains the proceedings of the fifth international conference on database systems for advanced applications dasfaa 97 dasfaa 97 focused on advanced database technologies and their applications the 55 papers in this volume cover a wide range of areas in the field of database systems and applications including the rapidly emerging areas of the internet multimedia and document database systems and should be of great interest to all database system researchers and developers and practitioners

Drilling Mechanics: Advanced Applications and Technology 2022-04-29

master the principles and practices of modern drilling mechanics this in depth guide offers complete coverage of drilling mechanics with a focus on the horizontal drilling of shale plays and offshore wells the book lays out drilling engineering fundamentals and clearly explains the latest technological developments written by a team of seasoned educators drilling engineering advanced applications and technology covers every key topic including geo mechanics for drilling applications well construction techniques wellbore hydraulics and optimization you will enhance your understanding of drilling operations improve your designs and plan for more productive and cost effective wells coverage includes well construction and hydraulics drillstring mechanics and casing design drilling hydraulics cuttings transport geomechanics fundamentals of rock mechanics wellbore stress stability and strengthening coupled fluid flow stress formulation drilling optimization methods vector and tensor analysis principles of deformable materials elasticity concepts

Neural Computing for Advanced Applications 2020-08-12

this book presents refereed proceedings of the first international conference on neural computing for advanced applications ncaa 2020 held in july 2020 due to the covid 19 pandemic the conference was held online the 36 full papers and 7 short papers were thorougly reviewed and selected from a total of 113 qualified submissions the papers present resent research on such topics as neural network theory and cognitive sciences machine learning data mining data security privacy protection and data driven applications computational intelligence nature inspired optimizers and their engineering applications cloud edge fog computing the internet of things vehicles iot iov and their system optimization control systems network

synchronization system integration and industrial artificial intelligence fuzzy logic neuro fuzzy systems decision making and their applications in management sciences computer vision image processing and their industrial applications and natural language processing machine translation knowledge graphs and their applications

Database Systems For Advanced Applications '91 - Proceedings Of The 2nd International Symposium On Database Systems For Advanced Applications 1992-09-21

this volume contains 64 papers from contributors around the world on a wide range of topics in database systems research of special mention are the papers describing the practical experiences of developing and implementing some of the many useful database systems on the market readers should find useful new ideas from the proceedings of this international symposium

Smart Card Research and Advanced Applications 2015-03-27

this book constitutes the thoroughly refereed post conference proceedings of the 13th international conference on smart card research and advanced applications cardis 2014 held in paris france in november 2014 the 15 revised full papers presented in this book were carefully reviewed and selected from 56 submissions the papers are organized in topical sections on java cards software countermeasures side channel analysis embedded implementations public key cryptography and leakage and fault attacks

<u>Smart Card Research and Advanced Applications</u> 2021-01-28

this book constitutes the proceedings of the 19th international conference on smart card research and advanced applications cardis 2020 which took place during november 18 20 2020 the conference was originally planned to take place in lübeck germany and changed to an online format due to the covid 19 pandemic the 12 full papers presented in this volume were carefully reviewed and selected from 26 submissions they were organized in topical sections named post quantum cryptography efficient implementations and physical attacks

Power Electronics, Drives, and Advanced Applications 2020-03-27

concern for reliable power supply and energy efficient system design has led to usage of power electronics based systems including efficient electric power conversion and power semiconductor devices this book provides integration of complete fundamental theory design simulation and application of power electronics and drives covering up to date subject components it contains twenty one chapters arranged in four sections on power semiconductor devices basic power electronic converters advanced power electronics converters power supplies electrical drives and advanced applications aimed at senior undergraduate and graduate students in electrical engineering and power electronics including related professionals this book includes electrical drives such as dc motor ac motor special motor high performance motor drives solar electrical hybrid vehicle and fuel cell drives reviews advances in renewable energy technologies wind pv hybrid power systems and their integration explores topics like distributed generation microgrid and wireless power transfer system includes simulation examples using matlab simulink and over four hundred solved unsolved and review problems

Classic and Advanced Ceramics 2010-04-16

based on the author s lectures to graduate students of geosciences physics chemistry and materials science this didactic handbook covers basic aspects of ceramics such as composition and structure as well as such advanced topics as achieving specific functionalities by choosing the right materials the focus lies on the thermal transformation processes of natural raw materials to arrive at traditional structural ceramics and on the general physical principles of advanced functional ceramics the book thus provides practice oriented information to readers in research development and engineering on how to understand make and improve ceramics and derived products while also serving as a rapid reference for the practitioner the choice of topics and style of presentation make it equally useful for chemists materials scientists engineers and mineralogists

Advanced Applications of 2D Nanostructures 2021-08-22

this book focuses on both recent advances and the applications of two dimensional 2d nanomaterials in different fields this book encapsulates all the aspects related to 2d nanomaterials and their applications it provides scientific and technological insights on novel routes of design and fabrication of few layered nanostructures and their hetero structures based on a variety of 2 d layered materials it also covers a wide range of industrial applications of 2d nanomaterials it emphasizes on the detailing of the various characterization techniques used the book will be a valuable reference for beginners researchers and professionals interested in nano materials and allied fields

Numerical Mathematics and Advanced Applications 2009 2010-12-02

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Nanocomposites as Next-Generation Optical Materials 2021-06-11

this book looks at advanced nanocomposites introducing long awaited concepts towards bridging the gap between nanostructured optical materials and next generation imaging systems it investigates nanocomposites as bulk optical materials and highlights the immense potential they hold for real world optical elements and systems such as smartphone cameras it covers the full spectrum of nanocomposite optical materials from their fundamental properties to analytical modeling and detailed application examples this book also provides an in depth discussion of the role these new materials play in the development of broadband flat optics diffractive optical elements used for enhancing high end broadband imaging systems written by an industry expert this book seamlessly connects fundamental research and real world applications it is the ideal guide both for optical engineers working towards integrating new technologies and researchers involved with fundamental research on optical materials

Computational Intelligence 2020-08-10

computational intelligence ci lies at the interface between engineering and computer science control engineering where problems are solved using computer assisted methods thus it can be regarded as an indispensable basis for all artificial intelligence ai activities this book collects surveys of most recent theoretical approaches focusing on fuzzy systems neurocomputing and nature inspired algorithms it also presents surveys of up to date research

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and application with special focus on fuzzy systems as well as on applications in life sciences and neuronal computing

2015 41st Euromicro Conference on Software Engineering and Advanced Applications (SEAA 2015) 2015

this book constitutes the thoroughly refereed post conference proceedings of the 18th international conference on smart card research and advanced applications cardis 2019 held in prague czech republic in november 2019 the 15 revised full papers presented in this book were carefully reviewed and selected from 31 submissions the papers are organized in the following topical sections system on a chip security post quantum cryptography side channel analysis microarchitectural attacks cryptographic primitives advances in side channel analysis cardis has provided a space for security experts from industry and academia to exchange on security of smart cards and related applications

Smart Card Research and Advanced Applications 2020-02-19

the european conferences on numerical mathematics and advanced applications enumath are a series of conferences held every two years to provide a forum for discussion of new trends in numerical mathematics and challenging scientific and industrial applications at the highest level of international expertise enumath 2011 was hosted by the university of leicester uk from the 5th to 9th september 2011 this proceedings volume contains more than 90 papers by speakers of the conference and gives an overview of recent developments in scientific computing numerical analysis and practical use of modern numerical techniques and algorithms in various applications new results on finite element methods multiscale methods numerical linear algebra and finite difference schemes are presented a range of applications include

computational problems from fluid dynamics materials image processing and molecular dynamics

Numerical Mathematics and Advanced Applications 2011 2013-01-20

the two volume work structural dynamics fundamentals and advanced applications is a comprehensive work that encompasses the fundamentals of structural dynamics and vibration analysis as well as advanced applications used on extremely large and complex systems volume i covers newton s laws single degree of freedom systems damping transfer and frequency response functions transient vibration analysis frequency and time domain multi degree of freedom systems forced vibration of single and multi degree of freedom systems numerical methods for solving for the responses of single and multi degree of freedom systems and symmetric and non symmetric eigenvalue problems in addition a thorough discussion of real and complex modes and the conditions that lead to each is included stochastic methods for single and multi degree of freedom systems excited by random forces or base motion are also covered dr kabe s training and expertise are in structural dynamics and dr sako s are in applied mathematics their collaboration has led to the development of first of a kind methodologies and solutions to complex structural dynamics problems their experience and contributions encompass numerous past and currently operational launch and space systems the two volume work was written with both practicing engineers and students just learning structural dynamics in mind derivations are rigorous and comprehensive thus making understanding the material easier presents analysis methodologies adopted by the aerospace community to solve extremely complex structural dynamics problems

Advanced applications 1988

impedance spectroscopy is a powerful measurement method used in many application fields such as electrochemistry material science biology and medicine semiconductor industry and sensors using the complex impedance at various frequencies increases the informational basis that can be gained during a measurement it helps to separate different effects that contribute to a measurement and together with advanced mathematical methods non accessible quantities can be calculated this book covers new advances in the field of impedance spectroscopy including fundamentals methods and applications it releases scientific contributions from the international workshop on impedance spectroscopy iwis as extended chapters including detailed information about recent scientific research results the book includes typically subsections on fundamental of impedance spectroscopy bio impedance techniques and applications impedance spectroscopy for energy storage systems sensors based on impedance spectroscopy measurement systems excitation signals modeling parameter extraction

Structural Dynamics Fundamentals and Advanced Applications, Volume I 2020-07-01

functionalized nanofibers synthesis and industrial applications presents the latest advances in the fabrication design processing and properties of functionalized nanofibers for a range of advanced applications sections introduce fabrication mechanisms and design of functionalized nanofibers explaining electrospinning and non electrospinning techniques optimization of structural designs surface functionalization techniques and characterization methods subsequent sections focus on specific application areas highlighting preparation methods and applications of functionalized nanofibers across biomedicine surfaces and coatings food environment energy electronics and textiles finally environmental impact and safety and

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legal aspects related to the utilization of functionalized nanofibers are considered this is a valuable resource for researchers and advanced students with an interest in nanomaterials and nanotechnology and across other disciplines such as polymer science chemistry chemical engineering and materials science and engineering integrates discussions of physics chemistry biology and materials science behind functionalized nanofibers opens the door to a range of applications across biomedicine surfaces and coatings food environment energy electronics and textiles analyzes challenges and opportunities relating to environmental health and safety issues

Impedance Spectroscopy 2018-12-17

wearable technology from basics to advanced applications is an indispensable guide that takes readers on an enlightening journey through the evolving world of wearable technology this comprehensive book demystifies the core concepts of wearable devices and delves into their transformative potential in various fields the book begins with an introduction to the fundamentals of wearable technology covering its history types and foundational principles it then transitions into a detailed exploration of advanced applications demonstrating the integration of wearables in healthcare fitness fashion and other sectors the book also offers insights into the technology s potential to revolutionize these fields providing a glimpse into the future of wearable devices wearable technology from basics to advanced applications is a valuable resource for technology enthusiasts professionals and students with its balance of basic knowledge and advanced insights this book is an essential reference in understanding the impact and future of wearable technology discover the world of wearables and how they shape our lives in this captivating read

Functionalized Nanofibers 2023-04-19

variational techniques for elliptic partial differential equations intended for graduate students studying applied math analysis and or numerical analysis provides the necessary tools to understand the structure and solvability of elliptic partial differential equations beginning with the necessary definitions and theorems from distribution theory the book gradually builds the functional analytic framework for studying elliptic pde using variational formulations rather than introducing all of the prerequisites in the first chapters it is the introduction of new problems which motivates the development of the associated analytical tools in this way the student who is encountering this material for the first time will be aware of exactly what theory is needed and for which problems features a detailed and rigorous development of the theory of soboley spaces on lipschitz domains including the trace operator and the normal component of vector fields an integration of functional analysis concepts involving hilbert spaces and the problems which can be solved with these concepts rather than separating the two introduction to the analytical tools needed for physical problems of interest like time harmonic waves stokes and darcy flow surface differential equations maxwell cavity problems etc a variety of problems which serve to reinforce and expand upon the material in each chapter including applications in fluid and solid mechanics

Wearable Technology 2024-05

the 40th euromicro conference series on software engineering and advanced applications seaa is a long standing international forum for researchers practitioners from business and industry and students to present and discuss the latest innovations trends experiences and concerns in the field of software engineering and advanced applications in information technology for software intensive systems

Variational Techniques for Elliptic Partial Differential Equations 2019-01-16

this book constitutes the thoroughly refereed post conference proceedings of the 10th ifip wg 8 8 11 2 international conference on smart card research and advanced applications cardis 2011 held in leuven belgium in september 2011 the 20 revised full papers presented were carefully reviewed and selected from 45 submissions the papers are organized in topical sections on smart cards system security invasive attacks new algorithms and protocols implementations and hardware security non invasive attacks and java card security

<u>2014 40th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA)</u> 2014-08-27

the three volume set constitutes the proceedings of the 17th international conference on wireless algorithms systems and applications was 2022 which was held during october 28 30 2022 the conference took place in dalian china the 95 full and 62 short papers presented in these proceedings were carefully reviewed and selected from 265 submissions the contributions in theoretical frameworks and analysis of fundamental cross layer protocol and network design and performance issues distributed and localized algorithm design and analysis information and coding theory for wireless networks localization mobility models and mobile social networking underwater and underground networks vehicular networks algorithms systems and applications of edge computing

Smart Card Research and Advanced Applications 2011-12-13

smart cards or ic cards offer a huge potential for information processing purposes the portability and processing power of ic cards allow for highly secure conditional access and reliable distributed information processing ic cards that can perform highly sophisticated cryptographic computations are already available their application in the financial services and telecom industries are well known but the potential of ic cards go well beyond that their applicability in mainstream information technology and the networked economy is limited mainly by our imagination the information processing power that can be gained by using ic cards remains as yet mostly untapped and is not well understood here lies a vast uncovered research area which we are only beginning to assess and which will have a great impact on the eventual success of the technology the research challenges range from electrical engineering on the hardware side to tailor made cryptographic applications on the software side and their synergies this volume comprises the proceedings of the fourth working conference on smart card research and advanced applications cardis 2000 which was sponsored by the international federation for information processing ifip and held at the hewlett packard labs in the united kingdom in september 2000 cardis conferences are unique in that they bring together researchers who are active in all aspects of design of ic cards and related devices and environments thus stimulating synergy between different research communities from both academia and industry this volume presents the latest advances in smart card research and applications and will be essential reading for smart card developers smart card application developers and computer science researchers involved in computer architecture computer security and cryptography

Wireless Algorithms, Systems, and Applications 2022-11-17

the biennial digital review of asia pacific is a comprehensive guide to the state of practice and trends in information and communication technologies for development ict4d in asia pacific this third edition 2007 2008 covers 31 countries and economies including north korea for the first time each country chapter presents key ict policies applications and initiatives for national development in addition five thematic chapters provide a synthesis of some of the key issues in ict4d in the region including mobile and wireless technologies risk communication intellectual property regimes and localization the authors are drawn from government academe industry and civil society providing a broad perspective on the use of icts for human development

Smart Card Research and Advanced Applications 2000-09-30

considers the application of modern control engineering on digital computers with a view to improving productivity and product quality easing supervision of industrial processes and reducing energy consumption and pollution the topics covered may be divided into two main subject areas 1 applications of digital control in the chemical and oil industries in water turbines energy and power systems robotics and manufacturing cement metallurgical processes traffic control heating and cooling 2 systems theoretical aspects of digital control adaptive systems control aspects multivariable systems optimization and reliability modelling and identification real time software and languages distributed systems and data networks contains 84 papers

Digital Review of Asia Pacific 2007/2008 2008-01-07

medical internet of things iot based applications are being utilized in several industries and have been shown to provide significant advantages to users in critical health applications artificial intelligence ai plays a key role in the growth and success of medical iot applications and iot devices in the medical sector to enhance revenue improve competitive advantage and increase consumer engagement the use of ai with medical iot should be encouraged in the healthcare and medical arena revolutionizing healthcare through artificial intelligence and internet of things applications provides greater knowledge of how ai affects healthcare and medical efficacy in order to improve outputs it focuses on a thorough and comprehensive introduction to machine learning covering topics such as patient treatment cyber physical systems and telemedicine this premier reference source is a dynamic resource for hospital administrators medical professionals government officials students and faculty of higher education librarians researchers and academicians

Digital Computer Applications to Process Control 2016-11-04

this book sets the innovative research contributions works and solutions for almost all the intelligent and smart applications in the smart cities the smart city concept is a relevant topic for industrials governments and citizens due to this the smart city considered as a multi domain context attracts tremendously academics researchers and practitioners who provide efforts in theoretical proofs approaches architectures and in applied researches the importance of smart cities comes essentially from the significant growth of populations in the near future which conducts to a real need of smart applications that can support this evolution in the future cities the main scope of this book covers new and original ideas for the next generations of cities using the new technologies the book involves the application of

the data science and ai iot technologies and architectures smart earth and water management smart education and e learning systems smart modeling systems smart mobility and renewable energy it also reports recent research works on big data technologies image processing and recognition systems and smart security and privacy

Revolutionizing Healthcare Through Artificial Intelligence and Internet of Things Applications 2023-06-12

this book constitutes the refereed proceedings of the 9th ifip wg 8 8 11 2 international conference on smart card research and advanced application cardis 2010 held in passau germany in april 2010 the 16 revised full papers presented were carefully reviewed and selected from numerous submissions the papers are organized in topical sections on mathematical algorithms side channel analysis systems logical attacks fault analysis and privacy

Innovations in Smart Cities Applications Volume 5 2022-03-03

this book constitutes the refereed proceedings of the second international conference on security in pervasive computing spc 2005 held in boppard germany in april 2005 the 14 revised full papers and 3 revised short papers presented together with abstracts of 5 invited talks were carefully reviewed and selected from 48 submissions the papers are organized in topical sections on smart devices and applications authentication privacy and anonymity and access control and information flow

Smart Card Research and Advanced Applications 2010-04-09

the 21th edition of the iceaa is coupled to the 9th edition of the ieee apwc the two conferences consist of invited and contributed papers and share a common organization registration fee submission site workshops and short courses and social events the proceedings of both conferences will be published on ieee xplore

Security in Pervasive Computing 2005-03-31

2019 International Conference on Electromagnetics in Advanced Applications (ICEAA) 2019-09-09

Database systems for advanced applications 1995-12-08

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