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The Green Book Online Course Management: Concepts, Methodologies, Tools, and Applications Computer Performance Engineering Solid State Gas Sensors - Industrial Application Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2015 Intelligent Feature Selection for Machine Learning Using the Dynamic Wavelet Fingerprint Geographic Information Systems: Concepts, Methodologies, Tools, and Applications FCC Record Agent and Multi-Agent Systems: Technologies and Applications Pratiyogita Darpan Individual Income Tax Returns Healthy lives, healthy people Spending Review 2010 Immunisation against infectious diseases The Equality Act (2010) Industrial Sensors and Controls in Communication Networks Oxyfuel Combustion for Clean Energy Applications Economics: Advances in Research and Application: 2011 Edition Social Media and the Transformation of Interaction in Society Collaborative and Distributed E-Research: Innovations in Technologies, Strategies and Applications Issues in Applied Mathematics: 2011 Edition EKC2010 Smart Materials and Intelligent Systems, SMIS2010 EU Environmental Law and the Internal Market Corporate Governance in the European Insurance Industry Advanced Research on Energy Materials and Material Application Applications of Artificial Intelligence, Big Data and Internet of Things in Sustainable Development Robotic Systems: Concepts, Methodologies, Tools, and Applications Mechanical Engineering, Materials and Energy II Patent Office Papers Your Federal Income Tax for Individuals Bridge Maintenance, Safety, Management, Resilience and Sustainability Simulation in Computational Finance and Economics: Tools and Emerging Applications Ontology-Based Applications for Enterprise Systems and Knowledge Management The Code of Federal Regulations of the United States of America Three-Dimensional Attached Viscous Flow Vehicle, Mechatronics and Information Technologies Equity and excellence: Issues in Biomedical Engineering Research and Application: 2011 Edition Structure and Effects in EU Competition Law

Individual Income Tax Returns Dec 21 2021

Ontology-Based Applications for Enterprise Systems and Knowledge Management Dec 29 2019 "This book provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas: Knowledge Management Systems and Enterprise Systems"--

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications Apr 24 2022

Developments in technologies have evolved in a much wider use of technology throughout science, government, and business; resulting in the expansion of geographic information systems. GIS is the academic study and practice of presenting geographical data through a system designed to capture, store, analyze, and manage geographic information. *Geographic Information Systems: Concepts, Methodologies, Tools, and Applications* is a collection of knowledge on the latest advancements and research of geographic information systems. This book aims to be useful for academics and practitioners involved in geographical data.

Spending Review 2010 Oct 19 2021 In 2009-10, public expenditure rose to 48 per cent of GDP whilst income fell to 37 per cent, resulting in the largest deficit in Britain's peacetime history. This Spending Review sets out how the Coalition Government will carry out its deficit reduction plan. Particular focus has been given to reducing welfare costs and wasteful spending. This has enabled the Coalition Government to prioritise the NHS, schools, early years' provision and the capital investments designed to support long term economic growth. Departmental budgets other than health and overseas aid will be cut by an average of 19 per cent over four years. Key areas of Annually Managed Expenditure (AME) in addition to Departmental Expenditure Limits (DELs) for each government department and for the devolved administrations are covered. The Review sets out departmental spending plans for the four years until 2014-15 and further

savings and reforms to welfare, environmental levies and public service pensions. The Review protects high value transport maintenance and investment, maintains the science budget, invests in apprenticeships and the low carbon economy and allows universities to increase fees from the 2012-13 academic year. Fundamental reforms will simplify the welfare system and make net savings of •7 billion a year. Social housing will be reformed and social care will receive an additional •2 billion by 2014-15. Public service reform underpins the Review: decentralisation of power; cutting burdens and regulations on front-line staff; improving transparency, efficiency and accountability of local services. Local government will have greater freedom but must work within reduced allocations. Public sector pensions will be reformed in line with Lord Hutton's recommendations. Central government administration costs will be cut by 34 per cent by 2014-15.

Government departments will produce business plans later in 2010 detailing reform plans and priorities.

The Green Book Oct 31 2022 This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.

Computer Performance Engineering Aug 29 2022 This book constitutes the refereed post-proceedings of the 10th European Performance Engineering Workshop, EPEW 2013, held in Venice, Italy, in September 2013. The 16 regular papers presented together with 8 short papers and 2 invited talks were carefully reviewed and selected from 33 submissions. The Workshop aims to gather academic and industrial researchers working on all aspects of performance engineering. Original papers related to theoretical and methodological issues as well as case studies and automated tool support are solicited in the following areas: performance modeling and evaluation, system and network performance engineering, and software performance engineering.

Agent and Multi-Agent Systems: Technologies and Applications Feb 20 2022 Simulation and Decision Making, Multi-Agent Applications, Management and e-Business, Mobile Agents and Robots, and Machine Learning. In addition to the main tracks of the symposium there were the following five special sessions: Agent- Based Optimization (ABO2010), Agent-Enabled Social Computing (AESC2010), Digital Economy (DE2010), Using Intelligent Systems for Information Technology Assessment (ISITA2010) and a Doctoral Track. Accepted and presented papers highlight new trends and challenges in agent and multi-agent research. We hope these results will be of value to the research community working in the fields of artificial intelligence, collective computational intelligence, robotics, machine learning and, in particular, agent and multi-agent systems technologies and applications. We would like to express our sincere thanks to the Honorary Chairs, Romuald Cwilewicz, President of the Gdynia Maritime University, Poland, and Lakhmi C. Jain, University of South Australia, Australia, for their support. Our special thanks go to the Local Organizing Committee chaired by Ireneusz Czarnowski, who did very solid and excellent work. Thanks are due to the Program Co-chairs, all Program and Reviewer Committee members and all the additional - viewers for their valuable efforts in the review process, which helped us to guarantee the highest quality of selected papers for the conference. We cordially thank the - ganizers and chairs of special sessions, which essentially contributed to the success of the conference.

Solid State Gas Sensors - Industrial Application Jul 28 2022 Gas sensor products are very often the key to innovations in the fields of comfort, security, health, environment, and energy savings. This compendium focuses on what the research community labels as solid state gas sensors, where a gas directly changes the electrical properties of a solid, serving as the primary signal for the transducer. It starts with a visionary approach to how life in future buildings can benefit from the power of gas sensors. The requirements for various applications, such as for example the automotive industry, are then discussed in several chapters. Further contributions highlight current trends in new sensing principles, such as the use of nanomaterials and how to use new sensing principles for innovative applications in e.g. meteorology. So as to bring together the views of all the different groups needed to produce new gas sensing applications, renowned industrial and academic representatives report on their experiences and expectations in research, applications and industrialisation.

Corporate Governance in the European Insurance Industry Oct 07 2020 Corporate scandals at the beginning of the 2000s and the recent global financial crisis have renewed the attention of academics, regulators and practitioners to agency problems and possible solutions in the financial sector. Since that time, much thought has been given to new regulations and international corporate governance standards, in an attempt to

guarantee prudent and sound financial management. While much of this thought has been focussed on the banking sector, Corporate Governance in the European Insurance Industry provides a unique perspective on the subject, focusing on the insurance industry and asking some important theoretical and practical questions. Are insurance companies systemically relevant, and does the existing regulation provide adequate protection for customers and guarantee financial stability? Is regulatory intervention consistent with economic and financial theories? And crucially, is this intervention consistent with empirical evidence of the behaviour and performance of insurance companies? The first part of this book provides the reader with a comprehensive review of current academic studies on the topic; the second part moves on to examine the regulation of corporate governance and its recent evolution after the global financial crisis. Within a context of vivid debate in the financial services industry, the issues explored in this book will be of value to anyone with an interest in insurance corporate governance and regulation. It is also a key source of research for academics in insurance and finance, as well as PhD students and post-graduate students in relevant subjects.

Patent Office Papers May 02 2020

The Code of Federal Regulations of the United States of America Nov 27 2019 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

Social Media and the Transformation of Interaction in Society Apr 12 2021 The availability of various technological platforms enables individuals to feel a deeper sense of connectivity and contribution to their social circles and the world around them. This growing dependence on social networking platforms has altered the ways in which society functions and communicates. *Social Media and the Transformation of Interaction in Society* is a definitive reference source for timely scholarly research evaluating the impact of social networking platforms on a variety of relationships, including those between individuals, governments, citizens, businesses, and consumers. Featuring expansive coverage on a range of topics relating to social media applications and uses across industries, this publication is a critical reference source for professionals, educators, students, and academicians seeking current research on the role and impact of new media on modern society. This publication features authoritative, research-based chapters across a range of relevant topics including, but not limited to, computer-mediated communication, nonprofit projects, disaster response management, education, cyberbullying, microblogging, digital paranoia, user interaction augmentation, and viral messaging.

Your Federal Income Tax for Individuals Mar 31 2020

Issues in Applied Mathematics: 2011 Edition Feb 08 2021 *Issues in Applied Mathematics / 2011 Edition* is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Applied Mathematics. The editors have built *Issues in Applied Mathematics: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Applied Mathematics in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in Applied Mathematics: 2011 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Oxyfuel Combustion for Clean Energy Applications Jun 14 2021 This book aims to be the reference book in the area of oxyfuel combustion, covering the fundamentals, design considerations and current challenges in the field. Its first part provides an overview of the greenhouse gas emission problem and the current carbon capture and sequestration technologies. The second part introduces oxy-fuel combustion technologies with emphasis on system efficiency, combustion and emission characteristics, applications and related challenges. The third part focuses on the recent developments in ion transport membranes and their performance in both oxygen separation units and oxygen transport reactors (OTRs). The fourth part presents novel approaches for clean combustion in gas turbines and boilers. Computational modelling and optimization of combustion in gas turbine combustors and boiler furnaces are presented in the fifth part with some numerical results and detailed analyses.

Industrial Sensors and Controls in Communication Networks Jul 16 2021 This informative text/reference presents a detailed review of the state of the art in industrial sensor and control networks. The book examines a broad range of applications, along with their design objectives and technical challenges. The coverage

includes fieldbus technologies, wireless communication technologies, network architectures, and resource management and optimization for industrial networks. Discussions are also provided on industrial communication standards for both wired and wireless technologies, as well as for the Industrial Internet of Things (IIoT). Topics and features: describes the FlexRay, CAN, and Modbus fieldbus protocols for industrial control networks, as well as the MIL-STD-1553 standard; proposes a dual fieldbus approach, incorporating both CAN and ModBus fieldbus technologies, for a ship engine distributed control system; reviews a range of industrial wireless sensor network (IWSN) applications, from environmental sensing and condition monitoring, to process automation; examines the wireless networking performance, design requirements, and technical limitations of IWSN applications; presents a survey of IWSN commercial solutions and service providers, and summarizes the emerging trends in this area; discusses the latest technologies and open challenges in realizing the vision of the IIoT, highlighting various applications of the IIoT in industrial domains; introduces a logistics paradigm for adopting IIoT technology on the Physical Internet. This unique work will be of great value to all researchers involved in industrial sensor and control networks, wireless networking, and the Internet of Things.

Structure and Effects in EU Competition Law Jun 22 2019 During the last decade the European Commission has progressively adopted what is called a and 'more economic approach' toward competition policy. This approach, which draws on U.S. antitrust policy, puts greater emphasis on possible welfare effects of business practices and is less concerned with competitive market structures. Under this school of thought concentration cannot be said to impede effective competition to the extent that efficiency gains outweigh market distortions. In order to stimulate the debate on this basic reorientation, in January 2009 the Max Planck Institute for Comparative and International Private Law at Hamburg convened economists, legal scholars, and practitioners for an exchange of views on these and 'new and' methodological foundations of EU competition policy and competition law. Two especially controversial elements were chosen for in-depth discussion: the prohibition of abuses of dominant positions and the review of State aid. This book reproduces fourteen papers from this conference, representing the considered views of prominent European lawyers, economists, academics, policymakers, and enforcement officials in the competition field on matters such as: the objectives of EU competition law; the current enforcement guidelines of the EU Commission regarding Article 102 TFEU and? measuring market power; abusive low pricing strategies; the economics of competition law enforcement; recent developments in EU State aid law; economic justifications for State aid. A critical assessment of the Commission and's State aid action plan by the German Monopolies Commission is appended in English. Applying law and economics theory to competition law, this book shows that the and 'more economic and' approach is exerting a considerable impact on various sectors of competition law. The authors clearly demonstrate the progress that can be made when lawyers and economists take notice of and respect the characteristics of each other and's discipline. Moreover, the authors show how new insights of economic theory may be integrated into the relevant legal analysis. The book will therefore be appreciated by academics, practitioners, and officials representing both fields.

Vehicle, Mechatronics and Information Technologies Sep 25 2019 Collection of selected, peer reviewed papers from the 2013 International Conference on Vehicle & Mechanical Engineering and Information Technology (VMEIT 2013), August 17-18, 2013, Zhengzhou, Henan, China. The 1094 papers are grouped as follows: Chapter 1: Design and Researches in Area of Vehicle and General Mechanical Engineering; Chapter 2: Mechatronics, Automation and Control; Chapter 3: Measurement and Instrumentation, Monitoring and Detection Technologies, Fault Diagnosis; Chapter 4: Computation Methods and Algorithms for Modeling, Simulation and Optimization, Data Mining and Data Processing; Chapter 5: Information Technologies, WEB and Networks Engineering, Information Security, Software Application and Development; Chapter 6: Power and Electric Systems, Electronics and Microelectronics, Embedded and Integrated Systems; Chapter 7: Communication, Signal and Image Processing, Data Acquisition, Identification and Recognition Technologies; Chapter 8: Information Technologies in Urban and Civil Engineering, Medicine and Biotechnology; Chapter 9: Material Science and Manufacturing Technology; Chapter 10: Information Technology in Management Engineering, Logistics, Economics, Finance, Assessment; Chapter 11: Related Themes.

Pratiyogita Darpan Jan 22 2022 Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international

news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine.

Bridge Maintenance, Safety, Management, Resilience and Sustainability Feb 29 2020 Bridge Maintenance, Safety, Management, Resilience and Sustainability contains the lectures and papers presented at The Sixth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012), held in Stresa, Lake Maggiore, Italy, 8-12 July, 2012. This volume consists of a book of extended abstracts (800 pp) and a DVD (4057 pp) co

EU Environmental Law and the Internal Market Nov 07 2020 A robust, exhaustive, and systematic legal analysis of the conflicts opposing integration of internal market and free competition rules with the environmental protection rules, including climate change rules, taken at an EU and national level.

Simulation in Computational Finance and Economics: Tools and Emerging Applications Jan 28 2020 Simulation has become a tool difficult to substitute in many scientific areas like manufacturing, medicine, telecommunications, games, etc. Finance is one of such areas where simulation is a commonly used tool; for example, we can find Monte Carlo simulation in many financial applications like market risk analysis, portfolio optimization, credit risk related applications, etc. Simulation in Computational Finance and Economics: Tools and Emerging Applications presents a thorough collection of works, covering several rich and highly productive areas of research including Risk Management, Agent-Based Simulation, and Payment Methods and Systems, topics that have found new motivations after the strong recession experienced in the last few years. Despite the fact that simulation is widely accepted as a prominent tool, dealing with a simulation-based project requires specific management abilities of the researchers. Economic researchers will find an excellent reference to introduce them to the computational simulation models. The works presented in this book can be used as an inspiration for economic researchers interested in creating their own computational models in their respective fields.

Equity and excellence: Aug 24 2019 Equity and Excellence : Liberating the NHS: Presented to Parliament by the Secretary of State for Health by Command of Her Majesty

FCC Record Mar 24 2022

Online Course Management: Concepts, Methodologies, Tools, and Applications Sep 29 2022 The rapid growth in online and virtual learning opportunities has created culturally diverse classes and corporate training sessions. Instruction for these learning opportunities must adjust to meet participant needs. Online Course Management: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on the trends, techniques, and management of online and distance-learning environments and examines the benefits and challenges of these developments. Highlighting a range of pertinent topics, such as blended learning, social presence, and educational online games, this multi-volume book is ideally designed for administrators, developers, instructors, staff, technical support, and students actively involved in teaching in online learning environments.

Smart Materials and Intelligent Systems, SMIS2010 Dec 09 2020 Volume is indexed by Thomson Reuters CPCI-S (WoS). The aim of this special volume is to facilitate the exchange of information on the best practice for handling multifunctional materials, active materials, enabling technologies and integrated system design, and intelligent systems and applications, etc.

Advanced Research on Energy Materials and Material Application Sep 05 2020 Volume is indexed by Thomson Reuters CPCI-S (WoS). In these proceedings are to be found many original ideas and new viewpoints concerning aspects of Energy Materials and Materials Applications. They are the outcome of a platform where researchers could exchange their innovative ideas with a new perspective. This work offers invaluable guidance to scientists, physicists, chemists, teachers and others, worldwide.

Healthy lives, healthy people Nov 19 2021 The Government recognises that many lifestyle-driven health problems are at alarming levels: obesity; high rates of sexually transmitted infections; a relatively large population of drug users; rising levels of harm from alcohol; 80,000 deaths a year from smoking; poor mental health; health inequalities between rich and poor. This white paper outlines the Government's proposals to protect the population from serious health threats; help people live longer, healthier and more fulfilling lives; and improve the health of the poorest. It aims to empower individuals to make healthy choices and give communities and local government the freedom, responsibility and funding to innovate and develop ways of

improving public health in their area. The paper responds to Sir Michael Marmot's strategic review of health inequalities in England post 2010 - "Fair society, healthy lives" (available at <http://www.marmotreview.org/AssetLibrary/pdfs/Reports/FairSocietyHealthyLives.pdf>) and adopts its life course framework for tackling the wider social determinants of health. A new dedicated public health service - Public Health England - will be created to ensure excellence, expertise and responsiveness, particularly on health protection where a national response is vital. The paper gives a timetable showing how the proposals will be implemented and an annex sets out a vision of the role of the Director of Public Health. The Department is also publishing a fuller story on the health of England in "Our health and wellbeing today" (http://www.dh.gov.uk/prod_consum_dh/groups/dh_digitalassets/@dh/@en/@ps/documents/digitalasset/dh_122238), detailing the challenges and opportunities, and in 2011 will issue documents on major public health issues.

Robotic Systems: Concepts, Methodologies, Tools, and Applications Jul 04 2020 Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at large face on a daily basis. Robotic Systems: Concepts, Methodologies, Tools, and Applications is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems.

Economics: Advances in Research and Application: 2011 Edition May 14 2021 Economics: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Economics and Organizations. The editors have built Economics: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Economics and Organizations in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Economics: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

The Equality Act (2010) Aug 17 2021 Publication of this document is allowed under the Open Government Licence. If you are happy to download, print and bind the document for yourself then it is FREE to download in pdf form from the DfE website. On the other hand, you might like to adorn your desk or bookshelf with this beautifully bound version instead! This is non-statutory advice from the Department for Education. It has been produced to help schools to understand how the Equality Act affects them and how to fulfil their duties under the Act. It has been updated to include information on same-sex marriage. On 1 October 2010, the Equality Act 2010 replaced all existing equality legislation such as the Race Relations Act, Disability Discrimination Act and Sex Discrimination Act. It has consolidated this legislation and also provides some changes that schools need to be aware of. This advice is for school leaders, school staff and governing bodies in maintained schools and academies but may also be useful for local authorities and parents.

Intelligent Feature Selection for Machine Learning Using the Dynamic Wavelet Fingerprint May 26 2022 This book discusses various applications of machine learning using a new approach, the dynamic wavelet fingerprint technique, to identify features for machine learning and pattern classification in time-domain signals. Whether for medical imaging or structural health monitoring, it develops analysis techniques and measurement technologies for the quantitative characterization of materials, tissues and structures by non-invasive means. Intelligent Feature Selection for Machine Learning using the Dynamic Wavelet Fingerprint begins by providing background information on machine learning and the wavelet fingerprint technique. It then progresses through six technical chapters, applying the methods discussed to particular real-world problems. These chapters are presented in such a way that they can be read on their own, depending on the reader's area of interest, or read together to provide a comprehensive overview of the topic. Given its scope, the book will be of interest to practitioners, engineers and researchers seeking to leverage the latest advances

in machine learning in order to develop solutions to practical problems in structural health monitoring, medical imaging, autonomous vehicles, wireless technology, and historical conservation.

Mechanical Engineering, Materials and Energy II Jun 02 2020 The volume contains selected, peer reviewed papers from the 2nd International Conference on Mechanical Engineering, Materials and Energy (ICMEME 2012), October 26-27, 2012, Dalian, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The papers are grouped as follows: Chapter 1: Mechatronics, Automation and Information Technologies; Chapter 2: Mechanical Engineering; Chapter 3: Material Science, Technology and Processing; Chapter 4: Energy Systems and Energy Saving; Chapter 5: Construction, Urban and Environment; Chapter 6: Economy and Engineering Management.

Applications of Artificial Intelligence, Big Data and Internet of Things in Sustainable Development Aug 05 2020 This book focuses on different algorithms and models related to AI, big data and IoT used for various domains. It enables the reader to have a broader and deeper understanding of several perspectives regarding the dynamics, challenges, and opportunities for sustainable development using artificial intelligence, big data and IoT. Applications of Artificial Intelligence, Big Data and Internet of Things (IoT) in Sustainable Development focuses on IT-based advancements in multidisciplinary fields such as healthcare, finance, bioinformatics, industrial automation, and environmental science. The authors discuss the key issues of security, management, and the realization of possible solutions to hurdles in sustainable development. The reader will master basic concepts and deep insights of various algorithms and models for various applications such as healthcare, finance, education, smart cities, smart cars, among others. Finally, the book will also examine the applications and implementation of big data IoT, AI strategies to facilitate the sustainable development goals set by the United Nations by 2030. This book is intended to help researchers, academics, and policymakers to analyze the challenges and future aspects for maintaining sustainable development through IoT, big data, and AI.

Three-Dimensional Attached Viscous Flow Oct 26 2019 Viscous flow is treated usually in the frame of boundary-layer theory and as two-dimensional flow. Books on boundary layers give at most the describing equations for three-dimensional boundary layers, and solutions often only for some special cases. This book provides basic principles and theoretical foundations regarding three-dimensional attached viscous flow. Emphasis is put on general three-dimensional attached viscous flows and not on three-dimensional boundary layers. This wider scope is necessary in view of the theoretical and practical problems to be mastered in practice. The topics are weak, strong, and global interaction, the locality principle, properties of three-dimensional viscous flow, thermal surface effects, characteristic properties, wall compatibility conditions, connections between inviscid and viscous flow, flow topology, quasi-one- and two-dimensional flows, laminar-turbulent transition and turbulence. Though the primary flight speed range is that of civil air transport vehicles, flows past other flying vehicles up to hypersonic speeds are also considered. Emphasis is put on general three-dimensional attached viscous flows and not on three-dimensional boundary layers, as this wider scope is necessary in view of the theoretical and practical problems that have to be overcome in practice. The specific topics covered include weak, strong, and global interaction; the locality principle; properties of three-dimensional viscous flows; thermal surface effects; characteristic properties; wall compatibility conditions; connections between inviscid and viscous flows; flow topology; quasi-one- and two-dimensional flows; laminar-turbulent transition; and turbulence. Detailed discussions of examples illustrate these topics and the relevant phenomena encountered in three-dimensional viscous flows. The full governing equations, reference-temperature relations for qualitative considerations and estimations of flow properties, and coordinates for fuselages and wings are also provided. Sample problems with solutions allow readers to test their understanding.

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2015 Jun 26 2022 This edited book presents scientific results of the 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015) which was held on June 1 – 3, 2015 in Takamatsu, Japan. The aim of this conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. Research results about all aspects (theory, applications and tools) of computer and information science, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them.

Collaborative and Distributed E-Research: Innovations in Technologies, Strategies and Applications Mar 12 2021 "This book offers insight into practical and methodological issues related to collaborative e-research and furthers readers understanding of current and future trends in online research and the types of technologies involved"--Provided by publisher.

Issues in Biomedical Engineering Research and Application: 2011 Edition Jul 24 2019 Issues in Biomedical Engineering Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Biomedical Engineering Research and Application. The editors have built Issues in Biomedical Engineering Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Biomedical Engineering Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Biomedical Engineering Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

EKC2010 Jan 10 2021 Current research fields in science and technology were presented and discussed at the EKC2009, informing about the interests and directions of the scientists and engineers in EU countries and Korea. The Conference has emerged from the idea of bringing together EU and Korea to get to know each other better, especially in fields of science and technology.

Immunisation against infectious diseases Sep 17 2021 This is the third edition of this publication which contains the latest information on vaccines and vaccination procedures for all the vaccine preventable infectious diseases that may occur in the UK or in travellers going outside of the UK, particularly those immunisations that comprise the routine immunisation programme for all children from birth to adolescence. It is divided into two sections: the first section covers principles, practices and procedures, including issues of consent, contraindications, storage, distribution and disposal of vaccines, surveillance and monitoring, and the Vaccine Damage Payment Scheme; the second section covers the range of different diseases and vaccines.