

Epsrc Grant Application Guidelines | 73606e08c353fcf7b1709a47c8754bdc

The Research Funding Toolkit Watching the Directives Marine Design XIII, Volume 1 Trends and Challenges in Maritime Energy Management Managing Research Data Energy Efficiency Sonic Interaction Design Advances in Manufacturing Technology XVI - NCMR 2002 The Grants Register 2009 Serious Games for Healthcare: Applications and Implications Marine Design XIII Systems Engineering for Business Process Change: New Directions Human-Computer Interaction Automated Reasoning for Systems Biology and Medicine Advances in Environmental Fluid Mechanics Philanthropy and the Future of Science and Technology Telehealthcare Computing and Engineering Academic Writing Advances in Human Factors and Simulation Applications and Innovations in Intelligent Systems X Knowledge Representation for Health-Care. Data, Processes and Guidelines Higher Education in the UK. Techno-Economic Challenges of Green Ammonia as an Energy Vector Computer-Aided Design of User Interfaces Informatics, Networking and Intelligent Computing Becoming a Successful Early Career Researcher Human Performance in Planning and Scheduling Large-Scale Simulation Dynamics of Civil Structures, Volume 2 Passive and Active Measurement Design and Manufacture for Sustainable Development 2004 Networked Knowledge - Networked Media Applications of Big Data Analytics Mobility Aware Technologies and Applications Advances in Manufacturing Technology XVII 2003 Postgraduate UK study and funding guide Soft and Stiffness-controllable Robotics Solutions for Minimally Invasive Surgery: The STIFF-FLOP Approach Transactions on Aspect-Oriented Software Development IV Research and Advanced Technology for Digital Libraries Wireless Mobile Communication and Healthcare

The most comprehensive guide available on postgraduate grants and professional funding worldwide. Now in its 27th edition, this is the leading source for up to date information on the availability of, and eligibility for, postgraduate and professional awards. Each entry is annually verified by its awarding body. This book constitutes the refereed proceedings of the 10th European Conference on Research and Advanced Technology for Digital Libraries, ECDL 2006. The book presents 36 revised full papers together with the extended abstracts of 18 demo papers and 15 revised poster papers. The papers are organized in topical sections on architectures, preservation, retrieval, applications, methodology, metadata, evaluation, user studies, modeling, audiovisual content, and language technologies. This book presents outstanding contributions in an exciting, new and multidisciplinary research area: the application of formal, automated reasoning techniques to analyse complex models in systems biology and systems medicine. Automated reasoning is a field of computer science devoted to the development of algorithms that yield trustworthy answers, providing a basis of sound logical reasoning. For example, in the semiconductor industry formal verification is instrumental to ensuring that chip designs are free of defects (or "bugs"). Over the past 15 years, systems biology and systems medicine have been introduced in an attempt to understand the enormous complexity of life from a computational point of view. This has generated a wealth of new knowledge in the form of computational models, whose staggering complexity makes manual analysis methods infeasible. Sound, trusted, and automated means of analysing the models are thus required in order to be able to trust their conclusions. Above all, this is crucial to engineering safe biomedical devices and to reducing our reliance on wet-lab experiments and clinical trials, which will in turn produce lower economic and societal costs. Some examples of the questions addressed here include: Can we

automatically adjust medications for patients with multiple chronic conditions? Can we verify that an artificial pancreas system delivers insulin in a way that ensures Type 1 diabetic patients never suffer from hyperglycaemia or hypoglycaemia? And lastly, can we predict what kind of mutations a cancer cell is likely to undergo? This book brings together leading researchers from a number of highly interdisciplinary areas, including:

- Parameter inference from time series
- Model selection
- Network structure identification
- Machine learning
- Systems medicine
- Hypothesis generation from experimental data
- Systems biology, systems medicine, and digital pathology
- Verification of biomedical devices

“This book presents a comprehensive spectrum of model-focused analysis techniques for biological systems an essential resource for tracking the developments of a fast moving field that promises to revolutionize biology and medicine by the automated analysis of models and data.” Prof Luca Cardelli FRS, University of Oxford

Energy Efficiency : 2nd report of session 2005-06, Vol. 2: Evidence

The beginning of the twenty-first century is characterized by global markets, and the mobility of people is becoming an important fact of life. Consequently, the mobile user is demanding appropriate technical solutions to make use of customized information and communication services. In this context the notion of next-generation networks (NGNs), which are driven by the convergence of the entertainment sector, the mobile Internet, and fixed/mobile telecommunications, is emerging. Such NGNs are aggregating a variety of different access networks and supporting the seamless connection of an open set of end-user devices, and due to the adoption of an all-IP network paradigm they enable a much better integration of voice and data services. Coincidentally the buzzword ‘fixed mobile convergence’ (FMC) describes the current trend towards providing common services across fixed and mobile networks resulting in the medium term in the full integration of fixed and mobile telecommunication networks. The adoption of appropriate middleware technologies and the provision of - called service delivery platforms driven by the ongoing innovation in the field of information technologies provides today the technical foundation for supporting terminal, personal and service mobility and thus the implementation of real seamless information and communication services. Furthermore, users are nowadays looking, in light of an omnipresent service environment, for a much higher degree of customization and context awareness in the services they use. The papers in this volume look at these enabling mobility-aware technologies and their use for implementing mobility-aware and context-aware applications.

This book provides an overview of contemporary trends and challenges in maritime energy management (MEM). Coordinated action is necessary to achieve a low carbon and energy-efficient maritime future, and MEM is the prevailing framework aimed at reducing greenhouse gas emissions resulting from maritime industry activities. The book familiarizes readers with the status quo in the field, and paves the way for finding solutions to perceived challenges. The 34 contributions cover six important aspects: regulatory framework; energy-efficient ship design; energy efficient ship and port operation; economic and social dimensions; alternative fuels and wind-assisted ship propulsion; and marine renewable energy. This pioneering work is intended for researchers and academics as well as practitioners and policymakers involved in this important field.

This timely text/reference reviews the state of the art of big data analytics, with a particular focus on practical applications. An authoritative selection of leading international researchers present detailed analyses of existing trends for storing and analyzing big data, together with valuable insights into the challenges inherent in current approaches and systems. This is further supported by real-world examples drawn from a broad range of application areas, including healthcare, education, and disaster management. The text also covers, typically from an application-

oriented perspective, advances in data science in such areas as big data collection, searching, analysis, and knowledge discovery. Topics and features: Discusses a model for data traffic aggregation in 5G cellular networks, and a novel scheme for resource allocation in 5G networks with network slicing Explores methods that use big data in the assessment of flood risks, and apply neural networks techniques to monitor the safety of nuclear power plants Describes a system which leverages big data analytics and the Internet of Things in the application of drones to aid victims in disaster scenarios Proposes a novel deep learning-based health data analytics application for sleep apnea detection, and a novel pathway for diagnostic models of headache disorders Reviews techniques for educational data mining and learning analytics, and introduces a scalable MapReduce graph partitioning approach for high degree vertices Presents a multivariate and dynamic data representation model for the visualization of healthcare data, and big data analytics methods for software reliability assessment This practically-focused volume is an invaluable resource for all researchers, academics, data scientists and business professionals involved in the planning, designing, and implementation of big data analytics projects. Dr. Mohammed M. Alani is an Associate Professor in Computer Engineering and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Hissam Tawfik is a Professor of Computer Science in the School of Computing, Creative Technologies & Engineering at Leeds Beckett University, UK. Dr. Mohammed Saeed is a Professor in Computing and currently is the Vice President for Academic Affairs and Research at the University of Modern Sciences, Dubai, UAE. Dr. Obinna Anya is a Research Staff Member at IBM Research - Almaden, San Jose, CA, USA. This book explores the increasing convergence of Social Media and Semantic Web technologies. It offers up-to-date contributions that illustrate various approaches to this young and emerging technology area. Contemporary research into written academic discourse has become increasingly polarised between two approaches: corpus linguistics and discourse analysis. This volume presents a selection of recent work by experts in academic written discourse, and illustrates how corpus linguistics and discourse analysis can work as complementary approaches. The overall introduction sets the volume against the backdrop of current work in English for Academic Purposes, and introductions to the each section draw out connections between the chapters and put them into context. The contributors are experts in the field and they cover both novice and expert examples of EAP. The book ends with an afterword that provides an agenda-setting closing perspective on the future of EAP research. It will appeal to reserachers and postgrduates in applied linguistics, corpus linguistics, discourse analysis and EAP. Systems Engineering for Business Process Change: New Directions is a collection of papers resulting from an EPSRC managed research programme set up to investigate the relationships between Legacy IT Systems and Business Processes. The papers contained in this volume report the results from the projects funded by the programme, which ran between 1997 and 2001. An earlier volume, published in 2000, reported interim results. Bringing together researchers from diverse backgrounds in Computer Science, Information Systems, Engineering and Business Schools, this book explores the problems experienced by IT-dependent businesses that have to implement changing business processes in the context of their investment in legacy systems. The book presents some of the solutions investigated through the collaborations set up within the research programme. Whether you are a researcher interested in the ideas that were generated by the research programme, or a user trying to understand the nature of the problems and their solutions, you cannot fail to be inspired by the writings contained in this volume. Large-Scale Simulation: Models, Algorithms, and Applications gives you firsthand insight on the latest advances in large-scale simulation techniques.

Most of the research results are drawn from the authors' papers in top-tier, peer-reviewed, scientific conference proceedings and journals. The first part of the book presents the fundamentals of large-scale simulation, including high-level architecture and runtime infrastructure. The second part covers middleware and software architecture for large-scale simulations, such as decoupled federate architecture, fault tolerant mechanisms, grid-enabled simulation, and federation communities. In the third part, the authors explore mechanisms—such as simulation cloning methods and algorithms—that support quick evaluation of alternative scenarios. The final part describes how distributed computing technologies and many-core architecture are used to study social phenomena. Reflecting the latest research in the field, this book guides you in using and further researching advanced models and algorithms for large-scale distributed simulation. These simulation tools will help you gain insight into large-scale systems across many disciplines. The theme of the 1997 INTERACT conference, 'Discovering New Worlds of HCI', signals major changes that are taking place with the expansion of new technologies into fresh areas of work and leisure throughout the world and new pervasive, powerful systems based on multimedia and the internet. HCI has a vital role to play in these new worlds, to ensure that people using the new technologies are empowered rather than subjugated to the technology that they increasingly have to use. In addition, outcomes from HCI research studies over the past 20 years are now finding their way into many organisations and helping to improve and enhance work practices. These factors have strongly influenced the INTERACT'97 Committee when creating the conference programme, with the result that, besides the more traditional HCI research and education focus found in previous INTERACT conferences, one strand of the 1997 conference has been devoted to industry and another to multimedia. The growth in the IFIP TC13 committee itself reflects the expansion of HCI into new worlds. Membership of IFIP TC13 has risen to now include representatives of 24 IFIP member country societies from many parts of the world. In 1997, IFIP TC13 breaks new ground by holding its sixth INTERACT conference in the Asia-Pacific region. This is a significant departure from previous INTERACT conferences, that were all held in Europe, and is especially important for the Asia-Pacific region, as HCI expands beyond its traditional base. An overview of emerging topics, theories, methods, and practices in sonic interactive design, with a focus on the multisensory aspects of sonic experience. Sound is an integral part of every user experience but a neglected medium in design disciplines. Design of an artifact's sonic qualities is often limited to the shaping of functional, representational, and signaling roles of sound. The interdisciplinary field of sonic interaction design (SID) challenges these prevalent approaches by considering sound as an active medium that can enable novel sensory and social experiences through interactive technologies. This book offers an overview of the emerging SID research, discussing theories, methods, and practices, with a focus on the multisensory aspects of sonic experience. Sonic Interaction Design gathers contributions from scholars, artists, and designers working at the intersections of fields ranging from electronic music to cognitive science. They offer both theoretical considerations of key themes and case studies of products and systems created for such contexts as mobile music, sensorimotor learning, rehabilitation, and gaming. The goal is not only to extend the existing research and pedagogical approaches to SID but also to foster domains of practice for sound designers, architects, interaction designers, media artists, product designers, and urban planners. Taken together, the chapters provide a foundation for a still-emerging field, affording a new generation of designers a fresh perspective on interactive sound as a situated and multisensory experience. Contributors Federico Avanzini, Gerold Baier, Stephen Barrass, Olivier Bau, Karin Bijsterveld, Roberto Bresin, Stephen Brewster, Jeremy

Coopersotck, Amalia De Gotzen, Stefano Delle Monache, Cumhur Erkut, George Essl, Karmen Franinović, Bruno L. Giordano, Antti Jylhä, Thomas Hermann, Daniel Hug, Johan Kildal, Stefan Krebs, Anatole Lecuyer, Wendy Mackay, David Merrill, Roderick Murray-Smith, Sile O'Modhrain, Pietro Polotti, Hayes Raffle, Michal Rinott, Davide Rocchesso, Antonio Rodà, Christopher Salter, Zack Settler, Stefania Serafin, Simone Spagnol, Jean Sreng, Patrick Susini, Atau Tanaka, Yon Visell, Mike Wezniewski, John Williamson

Cet ouvrage collectif rassemble les recherches les plus récentes dans le domaine des interfaces homme-machine. Il fournit des conseils pratiques d'utilisation des différentes techniques CADUI afin de développer efficacement des interfaces utilisateur d'applications interactives.

Advances in Manufacturing Technology XVII continues a well-respected series with the papers presented at the 1st International Conference on Manufacturing Research (ICMR 2003) - incorporating the 19th National Conference on Manufacturing Research (NCOMR). This essential text provides a thorough review of all aspects of manufacturing engineering and management and will be of interest to all those involved in this rapidly advancing sphere of mechanical and manufacturing engineering. Topics covered include Machining Processes and Tooling Forming Processes and Tools Advanced Manufacturing Techniques Advanced Manufacturing Systems Design Methods, Processes, and Systems CAD/CAM Testing/Experimentation/Metrology Internet and E-design/Manufacture Virtual Enterprise and Enterprise Integration

Soft and Stiffness-controllable Robotics Solutions for Minimally Invasive Surgery presents the results of a research project, funded by European Commission, STIFF-FLOP: STIFFness controllable Flexible and Learn-able manipulator for surgical Operations. In Minimally Invasive Surgery (MIS), tools go through narrow openings and manipulate soft organs that can move, deform, or change stiffness. There are limitations on modern laparoscopic and robot-assisted surgical systems due to restricted access through Trocar ports, lack of haptic feedback, and difficulties with rigid robot tools operating inside a confined space filled with organs. Also, many control algorithms suffer from stability problems in the presence of unexpected conditions. Yet biological "manipulators", like the octopus arm can manipulate objects while controlling the stiffness of selected body parts and being inherently compliant when interacting with objects. STIFF-FLOP robot is an innovative soft robotic arm that can squeeze through a standard MIS, reconfigure itself and stiffen by hydrostatic actuation to perform compliant force control tasks while facing unexpected situations. Technical topics discussed in the book include: Soft actuators Continuum soft manipulators Control, kinematics and navigation of continuum manipulators Optical sensors for force, torque, and curvature Haptic feedback and human interface for surgical systems Validation of soft stiffness controllable robots

With advances in technologies and revolutions in patient, trainee, and public expectations, the global healthcare sector is increasingly turning to serious games to solve problems. Serious games are applications with serious purposes, developed using computer game technologies more often associated with entertainment. Serious Games for Healthcare: Applications and Implications will introduce the development and application of game technologies for health-related serious games. Further, it provides cutting-edge academic research and industry updates which will inform readers about the current and future advances in the area. Encapsulating the knowledge of commercial and noncommercial researchers, developers, and practitioners in a single volume will benefit not only the research and development community within this field, but could also serve public health interests by improving awareness and outcomes.

LNCS 5943 Features information on studying at Postgraduate level in the UK, what is involved, what opportunities there are, lists details £75 million of funding available to Postgraduate students. Understanding

how to make the best of human skills and knowledge is essential in the design of technology and jobs, particularly where these involve decision-making and uncertainty. Recent developments have been made in naturalistic decision-making, distributed cognition and situational awareness, particularly with respect to aviation, transport and strategic planning, the nuclear industry and other high-risk industries. Despite the integration of computer-based support systems in production scheduling in recent years, the reality is that most enterprises consist of reactive re-scheduling, involving a high degree of human involvement. It is often with the insight, knowledge and skills of people that scheduling skills can function with any degree of success. Human Performance in Planning and Scheduling covers many industries, including clothing, steel, machine tools, paper/board, and the automobile industry. Using international case studies from various manufacturing industries, they highlight the fact that the human scheduler is a pivotal element in the scheduling process. Each section of the book includes an introduction with an overview of the material to follow, clearly identifying themes, discussion points and highlights inter-connections between the authors' work. This proceedings volume contains selected papers presented at the 2014 International Conference on Informatics, Networking and Intelligent Computing, held in Shenzhen, China. Contributions cover the latest developments and advances in the field of Informatics, Networking and Intelligent Computing. This book focuses on modeling and simulation research that advances the current state-of-the-art regarding human factors in this area. It reports on cutting-edge simulators such as virtual and augmented reality, on multisensory environments, and on modeling and simulation methods used in various applications, including surgery, military operations, occupational safety, sports training, education, transportation and robotics. Based on the AHFE 2019 International Conference on Human Factors in Simulation and Modeling, held on July 24-28, 2019, in Washington D.C., USA, the book serves as a timely reference guide for researchers and practitioners developing new modeling and simulation tools for analyzing or improving human performance. It also offers a unique resource for modelers seeking insights into human factors research and more feasible and reliable computational tools to foster advances in this exciting research field. Techno-Economic Challenges of Green Ammonia as an Energy Vector presents the fundamentals, techno-economic challenges, applications, and state-of-the-art research in using green ammonia as a route toward the hydrogen economy. This book presents practical implications and case studies of a great variety of methods to recover stored energy from ammonia and use it for power, along with transport and heating applications, including its production, storage, transportation, regulations, public perception, and safety aspects. As a unique reference in this field, this book can be used both as a handbook by researchers and a source of background knowledge by graduate students developing technologies in the fields of hydrogen economy, hydrogen energy, and energy storage. Includes glossaries, case studies, practical concepts, and legal, public perception, and policy viewpoints that allow for thorough, practical understanding of the use of ammonia as energy carrier Presents its content in a modular structure that can be used in sequence, as a handbook, in individual parts or as a field reference Explores the use of ammonia, both as a medium for hydrogen storage and an energy vector unto itself An increasingly important and often overlooked issue in science and technology policy is recognizing the role that philanthropies play in setting the direction of research. In an era where public and private resources for science are strained, the practices that foundations adopt to advance basic and applied research needs to be better understood. This first-of-its-kind study provides a detailed assessment of the current state of science philanthropy. This examination is particularly timely, given that science philanthropies will have an increasingly important and

outsized role to play in advancing responsible innovation and in shaping how research is conducted. **Philanthropy and the Future of Science and Technology** surveys the landscape of contemporary philanthropic involvement in science and technology by combining theoretical insights drawn from the responsible research and innovation (RRI) framework with empirical analysis investigating an array of detailed examples and case studies. Insights from interviews conducted with foundation representatives, scholars, and practitioners from a variety of sectors add real-world perspective. A wide range of philanthropic interventions are explored, focusing on support for individuals, institutions, and networks, with attention paid to the role that science philanthropies play in helping to establish and coordinate multi-sectoral funding partnerships. Novel approaches to science philanthropy are also considered, including the emergence of crowdfunding and the development of new institutional mechanisms to advance scientific research. The discussion concludes with an imaginative look into the future, outlining a series of lessons learned that can guide how new and established science philanthropies operate and envisioning alternative scenarios for the future that can inform how science philanthropy progresses over the coming decades. This book offers a major contribution to the advancement of philanthropic investment in science and technology. Thus, it will be of considerable interest to researchers and students in public policy, public administration, political science, science and technology studies, sociology of science, and related disciplines.

The papers in this volume are the referred Applications papers presented at ES 2002, the Twenty-second SGES international Conference on Knowledge Based Systems and Applied Artificial Intelligence, to be held in Cambridge during December 2002. The Application stream is the largest annual showcase in Europe of real applications using AI technology. Papers presented in this volume describe the application of AI to address real-world problems, including commerce, manufacturing and defence and every major AI technique; and highlight critical areas of success (and failure) and present the benefits and lessons of value to other developers. This is the tenth volume in the Applications and Innovations in Intelligent Systems series. The series serves as a key reference as to how AI technology has enabled organisations to solve complex problems and gain significant business benefits. The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XIX. This title defines what is required to achieve a culture of effective data management offering advice on the skills required, legal and contractual obligations, strategies and management plans and the data management infrastructure of specialists and services. Data management has become an essential requirement for information professionals over the last decade, particularly for those supporting the higher education research community, as more and more digital information is created and stored. As budgets shrink and funders of research demand evidence of value for money and demonstrable benefits for society, there is increasing pressure to provide plans for the sustainable management of data. Ensuring that important data remains discoverable, accessible and intelligible and is shared as part of a larger web of knowledge will mean that research has a life beyond its initial purpose and can offer real utility to the wider community. This edited collection, bringing together leading figures in the field from the UK and around the world, provides an introduction to all the key data issues facing the HE and information management communities. Each chapter covers a critical element of data management:

- Why manage research data?
- The lifecycle of data management
- Research data policies: principles, requirements and trends
- Sustainable research data
- Data management plans and planning
- Roles and responsibilities - libraries, librarians and data
- Research data management: opportunities and challenges for HEIs
- The national data centres
- Contrasting

national research data strategies: Australia and the USA • Emerging infrastructure and services for research data management and curation in the UK and Europe Readership: This is essential reading for librarians and information professionals working in the higher education sector, the research community, policy makers and university managers. It will also be a useful introduction for students taking courses in information management, archivists and national library services.The LNCS Journal Transactions on Aspect-Oriented Software Development is devoted to all facets of aspect-oriented software development (AOSD) techniques in the context of all phases of the software life cycle, from requirements and design to implementation, maintenance and evolution. The papers, which focus on mapping of early aspects across the software lifecycle, and aspects and software evolution, have passed through a careful peer reviewing process.

Marine Design XIII collects the contributions to the 13th International Marine Design Conference (IMDC 2018, Espoo, Finland, 10-14 June 2018). The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline. The focus is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on:

- Challenges in merging ship design and marine applications of experience-based industrial design
- Digitalisation as technological enabler for stronger link between efficient design, operations and maintenance in future
- Emerging technologies and their impact on future designs
- Cruise ship and icebreaker designs including fleet compositions to meet new market demands

To reflect on the conference focus, **Marine Design XIII** covers the following research topic series:

- State of art ship design principles - education, design methodology, structural design, hydrodynamic design;
- Cutting edge ship designs and operations - ship concept design, risk and safety, arctic design, autonomous ships;
- Energy efficiency and propulsions - energy efficiency, hull form design, propulsion equipment design;
- Wider marine designs and practices - navy ships, offshore and wind farms and production.

Marine Design XIII contains 2 state-of-the-art reports on design methodologies and cruise ships design, and 4 keynote papers on new directions for vessel design practices and tools, digital maritime traffic, naval ship designs, and new tanker design for arctic. **Marine Design XIII** will be of interest to academics and professionals in maritime technologies and marine design. This book constitutes the refereed post-conference proceedings of the 7th International Conference on Mobile Communication and Healthcare, **MobiHealth 2017**, held in Vienna, Austria, in November 2017. The 34 revised full papers were reviewed and selected from more than 50 submissions and are organized in topical sections covering data analysis, systems, work-in-process, pervasive and wearable health monitoring, advances in healthcare services, design for healthcare, advances in soft wearable technology for mobile-health, sensors and circuits. This is volume 1 of a 2-volume set. **Marine Design XIII** collects the contributions to the 13th International Marine Design Conference (IMDC 2018, Espoo, Finland, 10-14 June 2018). The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline. The focus is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on:

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world challenges of grant-writing, such as obtaining the right feedback, dealing effectively with your employer and partner institutions, and making multiple applications efficiently. There are many sources that will tell you what a fundable research grant application looks like. Very few help you learn the skills you need to write one. The Toolkit fills this gap with detailed advice on creating and testing applications that are readable, understandable and convincing. While conventional similar books focus on medical science and social aspects, this book emphasizes computing science and engineering design. This feature can help with both industry development and academic research. It book explains in detail both entire telehealthcare engineering system and individual hardware components. For example, it has circuit design details on ECG /EEG sensors. Highlighting basic principles and deep research development (R&D) details, the book focuses on two important design aspects: medical sensor design and medical signal processing. Their principles can be directly used for practical product design. Sustainable development is now becoming a matter that must be addressed at both strategic and operational level, whether driven by legislation, the 'greening of the marketplace', supply chain requirements, or the pressure of events associated with climate change. Design and Manufacture for Sustainable Development 2004 is an international volume including papers by distinguished authors for academia and industry. These international papers encompass the holistic study and interchange of ideas on the theory, practice, tools, and methodology for the entire product life cycle within the framework of sustainable development. Advances in Manufacturing Technology XVI provides a comprehensive collection of papers exploring the very latest developments in the field of manufacturing engineering and management and incorporates the most up-to-date techniques. TOPICS COVERED INCLUDE: Business strategies process reengineering CAD/CAM and concurrent engineering E-manufacturing and virtual reality Engineering modelling and simulations Total quality management and metrology Intelligent systems. robotics and automation Lean and agiel manufacturing Machining process and tooling Operations management Process control and condition monitoring Covering all aspects of manufacturing engineering, systems, and management this volume will be of great interest to those wanting to keep abreast pf current research and those involved in the planning stages in this area of engineering. The EU Physical Agents (Electromagnetic Fields) Directive (which was adopted in April 2004 and must be enshrined in law in EU member states by April 2008) sets out exposure limits designed to provide a minimum standard of protection from occupational exposure to electromagnetic fields (EMF). The Committee's report focuses on the impact of this Directive on the use of magnetic resonance imaging (MRI) equipment for diagnosis, treatment and research use. This is the first of three case studies under the Committee's over-arching inquiry into the way scientific evidence and advice is used by the UK Government to influence policy at EU level. It finds that there were failings in the way scientific advice was used to inform the Directive, both in Brussels and in the UK. The European Commission relied too heavily on one source of advice and was not sufficiently responsive to concerns raised by the magnetic resonance community, whilst there was serious failings in the consultation process in the UK, particular by the Health and Safety Executive and by the Health Protection Agency.

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