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Issues in Discovery, Experimental, and Laboratory Medicine: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Discovery, Experimental, and Laboratory Medicine. The editors have built Issues in Discovery, Experimental, and Laboratory Medicine: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Discovery, Experimental, and Laboratory Medicine 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 Discovery, Experimental, and Laboratory Medicine: 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/>.

Nanotechnology has applications within biotechnology, manufacturing, aerospace, information systems and many other fields. This book covers such nanotechnology business topics as micro-electro-mechanical systems, microengineering, microsystems, microsensors, and carbon tubes. It also includes statistical tables, an industry glossary and indexes.

Market research guide to the infotech industry a tool for strategic planning, competitive intelligence, employment searches or financial research. Contains trends, statistical tables, and an industry glossary. Includes one page profiles of infotech industry firms, which provides data

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such as addresses, phone numbers, and executive names.

Plunkett's Health Care Industry Almanac is the only complete reference to the American Health Care Industry and its leading corporations. Whatever your purpose for researching the health care field, you'll find this award-winning reference book to be a valuable guide. No other source provides this massive book's easy-to-understand comparisons of national health expenditures, emerging technologies, patient populations, hospitals, clinics, corporations, research, Medicare, Medicaid, managed care, and many other areas of vital importance. Included in the market research sections are dozens of statistical tables covering every aspect of the industry, from Medicare expenditures to hospital utilization, from insured and uninsured populations to revenues to health care expenditures as a percent of GDP. A special area covers vital statistics and health status of the U.S. population. The corporate analysis section features in-depth profiles of the "Health Care 500"; the 500 largest and most successful for-profit firms within the health care system, from the leading companies in pharmaceuticals to the major managed care companies. Details for each corporation include growth plans, divisions, subsidiaries, brand names, competitive advantage and financial results--as well as executives by title and valuable contact information such as phone, fax, website and address. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

This is the first report of the WIPO Patent Landscape Report series in the area of disabilities. It presents research on various assistive devices and technologies, includes an analysis on the geographical distribution of patent protection of these technologies, and features business data

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on major patent portfolios as well as a round-up of key innovators. Additionally, the report touches on technologies serving the same goals as the Marrakesh Treaty and the Accessible Book Consortium (ABC), namely those facilitating access of visually and hearing impaired persons to published works.

Current demographic, economic and social conditions which developed countries are faced with require a paradigm change for delivering high quality and efficient health services. In that context, healthcare systems have to turn from organization-centered to process-oriented and finally towards individualized patient care, also called personal care, based on ehealth platform services. Interoperability requirements for ubiquitous personalized health services reach beyond current concepts of health information integration among professional stakeholders and related Electronic Patient Records. Future personal health platforms particularly have to maintain semantic interoperability among systems using different modalities and technologies, different knowledge representation and domain experts' languages as well as different coding schemes and terminologies to include home care, as well as personal and mobile systems. This development is not restricted to regions or countries, but appears globally, requiring a comprehensive international collaboration. This publication within the series Studies in Health Technology and Informatics presents papers from leading international experts representing all domains involved in ehealth.

Plunkett's InfoTech Industry Almanac presents a complete analysis of the technology business, including the convergence of hardware, software, entertainment and telecommunications. This market research tool includes our analysis of the major trends affecting the industry, from the soaring need for memory, to supercomputing, open source systems such as Linux, cloud

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computing and the role of nanotechnology in computers. In addition, we provide major statistical tables covering the industry, from computer sector revenues to broadband subscribers to semiconductor industry production. No other source provides this book's easy-to-understand comparisons of growth, expenditures, technologies, imports/exports, corporations, research and other vital subjects. The corporate profile section provides in-depth, one-page profiles on each of the top 500 InfoTech companies. We have used our massive databases to provide you with unique, objective analysis of the largest and most exciting companies in: Computer Hardware, Computer Software, Internet Services, E-Commerce, Networking, Semiconductors, Memory, Storage, Information Management and Data Processing. We've been working harder than ever to gather data on all the latest trends in information technology. Our research effort includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies. Purchasers of the printed book or PDF version may receive a free CD-ROM database of the corporate profiles, enabling export of vital corporate data for mail merge and other uses.

This book provides radiological technicians, radiologists, technicians, developers and sales engineers with a unique display of the methods and applications used in radiography. Building on the physical basis and the quality and effects of X-rays, the book describes X-ray systems for diagnostics and interventions, the technique behind a radiographic image, image quality, patient data management including data archiving and communication with PACS in the hospital as well as between a physician's practice and hospitals. All descriptions are in accordance with the technical and diagnostic requirements to be met by modern, frequently digital radiographic as well as image processing methods and systems.

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Written for senior-level and first year graduate students in biomedical signal and image processing, this book describes fundamental signal and image processing techniques that are used to process biomedical information. The book also discusses application of these techniques in the processing of some of the main biomedical signals and images, such as EEG, ECG, MRI, and CT. New features of this edition include the technical updating of each chapter along with the addition of many more examples, the majority of which are MATLAB based.

This carefully-researched book covers exciting trends in consulting in such fields as marketing, information technology, management, logistics, supply chain, manufacturing, health care and more. Includes complete details on the prestigious management consulting sector, plus our analysis of the information technology consulting business. This reference tool includes thorough market analysis as well as our highly respected trends analysis. You'll find a complete overview, industry analysis and market research report in one superb, value-priced package. It contains thousands of contacts for business and industry leaders, industry associations, Internet sites and other resources. This book also includes statistical tables, an industry glossary and thorough indexes. The corporate profiles section of the book includes our proprietary, in-depth profiles of the 275 leading companies in all facets of consulting. Here you'll find complete profiles of the hot companies that are making news today, the largest, most successful corporations in the business. Purchasers of either the book or PDF version can receive

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a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

Market research guide to the wireless access and cellular telecommunications industry
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a tool for strategic planning, competitive intelligence, employment searches or financial research. Contains trends, statistical tables, and an industry glossary. Also provides profiles of 350 leading wireless, Wi-Fi, RFID and cellular industry firms - includes addresses, phone numbers, executive names.

Presents a market research guide to the telecommunications industry - a tool for strategic planning, competitive intelligence or financial research. This title includes a chapter of trends, statistical tables, and an industry-specific glossary. It provides profiles of the 500 companies in various facets of the telecommunications industry. This exciting new industry will enhance technologies of all types. Nanotechnology has applications within biotechnology, manufacturing, aerospace, information systems and many other fields. This book covers such nanotechnology business topics as micro-electro-mechanical systems (MEMS), microengineering, microsystems, microsensors, carbon tubes and much more. This is a young field with tremendous ground floor opportunities. Our terrific new reference tool includes a thorough market analysis as well as our highly respected trends analysis, all written from a business person's point

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of view. You'll find a complete overview, industry analysis and market research report in one superb, value-priced package. It contains thousands of contacts for business and industry leaders, industry associations, Internet sites and other resources. This book also includes statistical tables, an industry glossary and thorough indexes. The corporate profiles section of the book includes our proprietary, in-depth profiles of the 300 leading companies in all facets of the nanotechnology and microengineering industry. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

People spend increasing amounts of time and effort interacting with complex hardware and software products. Some of the products we interact with are easy to learn and easy to remember. Some are even a pleasure to use. Others are hard to learn, hard to use, and frustrate us at every turn. But it is not just the user that pays the cost in such cases. Poor usability also imposes significant costs on product producers. Companies that make hard-to-use products incur higher support costs, spend more on rework, and have less satisfied customers. These outcomes can be avoided by applying the techniques of usability engineering and user-centred design (UCD) during product development. This book shows how usability and UCD practitioners do this by studying users' needs and abilities, designing the product accordingly, and verifying the design

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through additional testing with users. Despite the positive return on investment for usability engineering activities, many organizations view usability engineering as a non-critical part of the product development process. This book seeks to change this by relating a number of cases where usability engineering contributed significantly to the solution of a business problem. Evidence is drawn from experiences within a range of private and public sector organizations showing how usability work can best be organized and executed within a business environment. The organizational factors that facilitate or impede the application of usability engineering are also discussed. The book clearly explains the barriers to be overcome as well as highlighting the factors promoting success. A wide range of applications are covered, including web-based e-commerce, medical devices and software, process control management systems, financial services applications, consumer desktop applications and interactive voice response systems. Usability Success Stories provides a valuable guide for business managers and technical staff as well as for practitioners within the field itself.

Plunkett's Health Care Industry Almanac is the only complete reference to the American Health Care Industry and its leading corporations. Whatever your purpose for researching the health care field, you'll find this massive reference book to be a valuable guide. No other source provides this book's easy-to-understand comparisons of national health expenditures, emerging technologies, patient populations, hospitals, clinics, corporations, research, Medicare, Medicaid, managed care, and many other

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areas of vital importance. Included in the market research sections are dozens of statistical tables covering every aspect of the industry, from Medicare expenditures to hospital utilization, from insured and uninsured populations to revenues to health care expenditures as a percent of GDP. A special area covers vital statistics and health status of the U.S. population. The corporate analysis section features in-depth profiles of the 500 major for-profit firms (which we call "The Health Care 500") within the many industry sectors that make up the health care system, from the leading companies in pharmaceuticals to the major managed care companies. Details for each corporation include executives by title, phone, fax, website, address, growth plans, divisions, subsidiaries, brand names, competitive advantage and financial results. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

Siemens in China - Joint Ventures
GRIN Verlag

Serves as a useful reference to the American Health Care Industry and its leading corporations. This book provides comparisons of national health expenditures, various technologies, patient populations, hospitals, clinics, corporations, research, Medicare, Medicaid, managed care, and many other areas of vital importance.

' Worldwide Casebook in Marketing Management comprises a large collection of case studies in marketing and business management. It covers a huge array of decision-

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making areas and many different industries ranging from computers, petrol retailing and electronic gaming to drinks, fashion, airlines and mobile communication. The worldwide cases are all related to many well-known brands and corporations like British Airways, Red Bull, Nintendo, Google, Microsoft, Cacharel, etc. Contents: Introduction to Case Analysis Consumer Behaviour: San Pellegrino (Italy) Nintendo Wii (Japan) Zara (Spain) Branding: Lenovo (China) Red Bull (Austria) SingTel (Singapore) Marketing Communication: Foster's (Australia) Google (The US) Walkers (The UK) TAG Heuer (Switzerland) Cirque du Soleil (Canada) Retailing: Currys (The UK) Cold Storage (Singapore) Marketing Programming: Microsoft (The US) National Australia Bank (Australia) Acer (Taiwan) Kerry (Ireland) Siemens (Germany) ING (Holland) Electrolux (Sweden) Strategic and Global Marketing: British Airways (The UK) Grundfos (Denmark) Petrobras (Brazil) Accor (France) Readership: Graduate students and researchers who are interested in marketing management. Key Features: Comprises of a large collection of case studies in marketing and management Covers many different industries, well-known brands and companies Offers studies on new trends and innovative marketing concepts Keywords: Marketing Management; Innovation; British Airways; Red Bull; Nintendo; Google; Microsoft; Cacharel'

A casebook that discusses all the mega mergers and acquisitions in terms of value, that have happened in different industry sectors such as pharmacy, technology, telecommunications, media and entertainment, electrical and electronics, energy,

finance, consumer goods, metals, and automobile and airlines.

This book constitutes the refereed proceedings of the 17th International Conference on Advanced Information Systems Engineering, CAiSE 2005, held in Porto, Portugal in June 2005. The 39 revised full papers presented were carefully reviewed and selected from 282 submissions. The papers are organized in topical sections on conceptual modeling, metamodeling, databases, query processing, process modeling and workflow systems, requirements engineering, model transformation, knowledge management and verification, Web services, Web engineering, software testing, and software quality. This book deals with how companies can involve customers or users in order to learn with them in the field of service-based business development. It presents a variety of customer-involvement approaches, methods for learning with customers, and the results of case studies conducted in both service and manufacturing companies focusing on value-creation through services. Based on research carried out by several research groups around the world, as well as on illustrative cases, the book creates new actionable knowledge regarding customer-involvement which will be useful for both practitioners and scholars. Benefits for readers include: an understanding of the business potential of learning with customers and other users; an overview of the fields of new service development and customer-involvement with regard to concepts, theoretical frameworks, and models, in addition to strategies and techniques for involving users in fruitful ways during the innovation process; an illustration of the cases

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based on the results of empirical studies; and managerial implications and guidelines regarding how to manage customer-involvement during the different phases of the new service and business development process. Contents: Process of Customer Interaction in New Service Development (I Alam) The Role of the Customer in the Development Process (B Sandén et al.) Customers as Co-Innovators: An Initial Exploration of Its Strategic Importance (U Mannervik & R Ramirez) Customer-to-Customer Interaction in Service Development: A Many-to-Many Approach (E Gummesson) New Service Development: Learning from and with Customers (B Sandén et al.) Managing Ideas that are Unthinkable in Advance: A Matter of How and Where You Ask (P Kristensson) Learning from Experiments Involving Users in Service Innovation (P R Magnusson) Customer Involvement — Lessons Learned: A Study of Three Customer Involvement Projects at Volvo Cars (F Dahlsten) Service Encounter Analysis Based on Customer Retrospection (P Echeverri) How to Better Learn from Users (H Björkman) Video-Based Methodology: Capturing Real-Time Perceptions of Customer Processes (P Echeverri) Customer-Oriented Service Engineering as a Success Factor — Findings of Case Studies of Customer Integration in the Service Development Process (R Nägele) Service Innovation, User Involvement and Intellectual Property Management (C Hipp & C Herstatt) Customer and Supplier Involvement in New Service Development (F Hull et al.) Readership: Researchers and professionals in the fields of marketing, business development, strategy as well as service and product development. Suitable

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as a textbook for postgraduate courses like quality management, marketing, service management, operations management, and product management. Keywords:Customer Involvement;User Involvement;Service Development;Product Development;Innovation;Understanding CustomersKey Features:Several internationally-distinguished scholars present their latest findings concerning customer-involvementProvides readers with useful presentation and explanation of theories, augmented by illustrative examplesReviews:"This is a comprehensive text that addresses competently the general lack of knowledge regarding new service development and the different tools and approaches required ... it is a high value resource for most in the NPD field interested in either new service development or even co-creation with customers applied to either products or services."Journal of Product Innovation Management

Towards collaborative business ecosystems Last decade was fertile in the emerging of new collaboration mechanisms and forms of dynamic virtual organizations, leading to the concept of dynamic business ecosystem, which is supported (or induced ?) by the progress of the ubiquitous I pervasive computing and networking. The new technologies, collaborative business models, and organizational forms supported by networking tools "invade" all traditional businesses and organizations what requires thinking in terms of whole systems, i. e. seeing each business as part of a wider economic ecosystem and environment. It is also becoming evident that the agile

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formation of very dynamic virtual organizations depends on the existence of a proper longer-term "embedding" or "nesting" environment (e. g. regional industry cluster), in order to guarantee certain basic requirements such as trust building ("Trusting your partner" is a gradual and long process); common interoperability, ontology, and distributed collaboration infrastructures; agreed business practices (requiring substantial engineering/re-engineering efforts); a sense of community ("we vs. the others"), and some sense of stability (when is a dynamic state or a stationary state useful). The more frequent situation is the case in which this "nesting" environment is formed by organizations located in a common region, although geography is not a major facet when cooperation is supported by computer networks.

Essay from the year 2006 in the subject Business economics - Miscellaneous, grade: 1,5, Ocean University of China (Universitat), course: Case Studies, 0 entries in the bibliography, language: English, comment: Siemens in China, Joint Ventures, abstract: In dieser Arbeit handelt es sich um die Geschichte, Entwicklung und Erfolgsbeurteilung der Siemens AG in China. Die Arbeit ist auf Englisch.

This book contains the proceedings of the Fourth International Workshop on Product Family Engineering, PFE-4, held in Bilbao, Spain, October 3–5, 2001. This workshop was the fourth in a series started in 1996, with the same subject, software product-family engineering. Proceedings of the second and third workshops have been published as LNCS 1429 and LNCS 1951. The workshops were organized within co-operation

projects of European industry, the first two by ARES (Esprit IV 20.477) 1995–1999. This project had three industrial and three academic partners, and focused on software architectures for product families. Some of the partners continued in ITEA project 99005, ESAPS (1999–2001). ITEA is the software development program (?!2023) within the European Eureka initiative. ITEA projects last for two years and ESAPS ? was succeeded by CAFE (ITEA ip00004), which started in 2001 and will terminate in 2003. This workshop was initially prepared within ESAPS and the ? preparation continued in CAFE. Due to the attacks in the USA of September 11, several people were not able to ?y and therefore did not show up. However, we have included their submissions in these proceedings. The session chair presented these submissions, and their inputs were used during the discussions. It was planned that Henk Obbink be workshop chair, and Linda Northrop and Sergio Bandinelli be co-chairs. However, because of personal circumstances Henk Obbink was not able to leave home during the workshop. Moreover both co-chairs had already enough other duties. Therefore the chairing duties were taken over by the program chair, Frank van der Linden.

Plunkett's InfoTech Industry Almanac presents a complete analysis of the technology business, including the convergence of hardware, software, entertainment and telecommunications. This market research tool includes our analysis of the major trends affecting the industry, from the rebound of the global PC and server market, to consumer and enterprise software, to super computers,

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open systems such as Linux, web services and network equipment. In addition, we provide major statistical tables covering the industry, from computer sector revenues to broadband subscribers to semiconductor industry production. No other source provides this book's easy-to-understand comparisons of growth, expenditures, technologies, imports/exports, corporations, research and other vital subjects. The corporate profile section provides in-depth, one-page profiles on each of the top 500 InfoTech companies. We have used our massive databases to provide you with unique, objective analysis of the largest and most exciting companies in: Computer Hardware, Computer Software, Internet Services, E-Commerce, Networking, Semiconductors, Memory, Storage, Information Management and Data Processing. We've been working harder than ever to gather data on all the latest trends in information technology. Our research effort includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies. Purchasers of the printed book or PDF version may receive a free CD-ROM database of the corporate profiles, enabling export of vital corporate data for mail merge and other uses. A guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in

technology-based research and development.

This book constitutes the refereed proceedings of the 8th Conference on Artificial Intelligence in Medicine in Europe, AIME 2001, held in Cascais, Portugal in July 2001. The 31 revised full papers presented together with 30 posters and two invited papers were carefully reviewed and selected from 79 submissions.

Among the topics addressed in their context on medical information processing are knowledge management, machine learning, data mining, decision support systems, temporal reasoning, case-based reasoning, planning and scheduling, natural language processing, computer vision, image and signal interpretation, intelligent agents, telemedicine, careflow systems, and cognitive modeling.

Software product line engineering has proven to be the methodology for developing a diversity of software products and software intensive systems at lower costs, in shorter time, and with higher quality. In this book, Pohl and his co-authors present a framework for software product line engineering which they have developed based on their academic as well as industrial experience gained in projects over the last eight years. They do not only detail the technical aspect of the development, but also an integrated view of the business, organisation and process aspects are given. In addition, they explicitly point out the key differences of software product line engineering compared to traditional single

software system development, as the need for two distinct development processes for domain and application engineering respectively, or the need to define and manage variability.

This reference book is a complete guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in technology-based research and development. We have included companies that are making significant investments in research and development via as many disciplines as possible, whether that research is being funded by internal investment, by fees received from clients or by fees collected from government agencies. In this carefully-researched volume, you'll get all of the data you need on the American Engineering & Research Industry, including: engineering market analysis, complete industry basics, trends, research trends, patents, intellectual property, funding, research and development data, growth companies, investments, emerging technologies, CAD, CAE, CAM, and more. The book also contains major statistical tables covering everything from total U.S. R&D expenditures to the total number of scientists working in various disciplines, to amount of U.S. government grants for research. In addition, you'll get expertly written profiles of nearly 400 top Engineering and Research firms - the largest,

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most successful corporations in all facets of Engineering and Research, all cross-indexed by location, size and type of business. These corporate profiles include contact names, addresses, Internet addresses, fax numbers, toll-free numbers, plus growth and hiring plans, finances, research, marketing, technology, acquisitions and much more. This book will put the entire Engineering and Research industry in your hands. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

This book provides an introduction to Dual Source Computed Tomography (DSCT) technology and to the basics of contrast media administration. This is followed by 25 in-depth clinical scan and contrast media injection protocols. Introduce your students to strategic management with the market-leading text that sets the standard for the course area. Written by respected scholars who have taught strategic management at all educational levels, Hitt, Ireland, and Hoskisson's latest edition provides an intellectually rich, yet thoroughly practical, analysis of strategic management. The classic industrial organization model is combined with a resource-based view of the firm to provide students with a complete understanding of how today's businesses establish competitive

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advantages and create value for stakeholders. Cutting-edge research is presented with a strong global focus, featuring more than 500 emerging and established companies. All-new opening cases introduce chapter concepts and mini cases offer new contexts of study. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Waste Electrical and Electronic Equipment (WEEE) Handbook, Second Edition, is a one-stop reference on current electronic waste legislation initiatives, their impact, and the latest technological considerations for reducing electronic waste (e-waste) and increasing the efficiency of materials recovery. It also provides a wide-range of global and corporate examples and perspectives on the challenges that face specific regions and companies, along with the solutions they are implementing in managing e-waste, offering further insights on how discarded products can be treated. Sections introduce the reader to legislation and initiatives to manage WEEE and discuss technologies for the refurbishment, treatment and recycling of waste electronics. Further sections focus on electronic products that present particular challenges for recyclers, explore sustainable design of electronics and supply chains, discuss national and regional WEEE management schemes, and more. Addresses the latest challenges and

opportunities for electronic waste (e-waste) management, including e-waste collection models, circular economy implications, rare earth metal recovery, and much more Draws lessons for waste electrical and electronic equipment (WEEE) policy and practice from around the world Discusses legislation and initiatives to manage WEEE, including global e-waste initiatives, EU legislation relating to electronic waste, and eco-efficiency evaluation of WEEE take-back systems Alphabetically arranged by state, this indispensable annual directory to over 21,000 employers offers a variety of pertinent contact, business, and occupational data. - American Library Association, Business Reference and Services Section (BRASS) Completely updated to include the latest industries and employers, this guide includes complete profiles of more than 20,000 employers nationwide featuring: Full company name, address, phone numbers, and website/e-mail addresses Contacts for professional hiring A description of the company's products or services Profiles may also include: Listings of professional positions advertised Other locations Number of employees Internships offered

Global service-based firms are often 'born global,' and these organizations have developed integrated global strategies based on industry relationships, in order to thrive in new environments. Focusing on these global strategies, this textbook

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explores the workings of modern service businesses, presenting theoretical management concepts alongside illustrative examples. Original case studies from a range of global sectors, including Starbucks and Facebook, as well as broader studies, such as healthcare in Japan, provide practical insights into the art of thriving as a global business. Written by a leading expert in the field, this multidisciplinary text is a vital read for all scholars and students wishing to view strategic relationships from the focal point of service industries.

Co-authored by a nuclear cardiologist and a cardiologist, this book presents practical, up-to-date information on diagnostic imaging for coronary artery disease, including coronary CT angiography, cardiac SPECT, cardiac PET, and MRI. The authors present the basic concepts and must-know facts of these modalities and offer guidelines for risk stratification of coronary artery disease. Test questions for board review are included. A companion Website will contain clinical case examples of coronary CT angiography studies and nuclear studies. Full-color images of black-and-white print CT, SPECT, and PET materials will be included. The Website will also include 31 video clips.

Build the foundation necessary for the practice of CT scanning with *Computed Tomography: Physical Principles, Clinical Applications, and Quality Control*, 4th Edition. Written to meet the varied requirements of radiography students and

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practitioners, this two-color text provides comprehensive coverage of the physical principles of CT and its clinical applications. Its clear, straightforward approach is designed to improve your understanding of sectional anatomic images as they relate to CT — and facilitate communication between CT technologists and other medical personnel. Comprehensively covers CT at just the right depth for technologists – going beyond superficial treatment to accommodate all the major advances in CT. One complete CT resource covers what you need to know! The latest information on advances in CT imaging, including: advances in volume CT scanning; CT fluoroscopy; multi-slice applications like 3-D imaging, CT angiography, and virtual reality imaging (endoscopy) – all with excellent coverage of state-of-the-art principles, instrumentation, clinical applications, and quality control. More than 600 photos and line drawings help students understand and visualize concepts. Chapter outlines show you what is most important in every chapter. Strong ancillary package on Evolve facilitates instructor preparation and provides a full complement of support for teaching and learning with the text NEW! Highlights recent technical developments in CT, such as: the iterative reconstruction; detector updates; x-ray tube innovations; radiation dose optimization; hardware and software developments; and the introduction of a new scanner from Toshiba. NEW! Learning Objectives and Key Terms at the

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beginning of every chapter and a Glossary at the end of the book help you organize and focus on key information. NEW! End-of-Chapter Questions provide opportunity for review and greater challenge. NEW! An added second color aids in helping you read and retain pertinent information

The three-volume set LNCS 8673, 8674, and 8675 constitutes the refereed proceedings of the 17th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2014, held in Boston, MA, USA, in September 2014. Based on rigorous peer reviews, the program committee carefully selected 253 revised papers from 862 submissions for presentation in three volumes. The 100 papers included in the second volume have been organized in the following topical sections: biophysical modeling and simulation; atlas-based transfer of boundary conditions for biomechanical simulation; temporal and motion modeling; computer-aided diagnosis; pediatric imaging; endoscopy; ultrasound imaging; machine learning; cardiovascular imaging; intervention planning and guidance; and brain.

Inhaltsangabe:Abstract: We are facing an increasing bandwidth in the mobile systems and this opens up for new applications in a mobile terminal. It will be possible to download, record, send and receive images and videosequences. Even if we have more bandwidth, images and video data must be compressed

before it can be sent, because of the amount of information it contains. MPEG-4 and H.263 are standards for compression of video data. The problem is that encoding and decoding algorithms are computationally intensive and complexity increases with the size of the video. In mobile applications, processing capabilities such as memory space and calculation time are limited and optimized algorithms for decoding and encoding are necessary. The question is if it is possible to encode raw video data with low complexity. Single frames e.g. from a digital camera, can then be coded and transmitted as a video sequence. On the other hand, the decoder needs to be able to handle sequences with different resolution. Thus, decoder in new mobile terminals must decode higher resolution sequences with the same complexity as low resolution video requires. The work will involve literature studies of MPEG-4 and H.263. The goal is to investigate the possibility to encode video data with low complexity and to find a way for optimized downscaling of larger sequences in a decoder. The work should include - Literature studies of MPEG-4 and H.263. - Theoretical study how CIF sequences (352x288-pixel) can be downscaled to QCIF (176x144-pixel) size. - Finding of optimized algorithms for a low complexity encoder. - Implementation of such an encoder in a microprocessor, e.g. a DSP. - Complexity analysis of processing consumption. Prerequisite experience is fair C-programming,

signalprocessing skills and basic knowledge in H.263 and MPEG-4 is useful. New mobile communication standards provide an increased bandwidth, which opens up for many new media applications and services in future mobile phones. Video recording using the MMS standard, video conferencing and downloading of movies from the Internet are some of those applications. Even if the data rate is high, video data needs to be compressed using international video compression standards such as MPEG-4 or H.263. Efficient video compression algorithms are the focus of this thesis. Very limited computational capabilities of the terminals require low complexity encoder and decoder. A low complexity encoder for usage with [...]

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