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Pediatric Informatics
National Academies Press
Career Criminals in Society
examines the small but
dangerous group of repeat
offenders who are most
damaging to society. The

book encourages readers to think critically about the causes of criminal behavior and the potential of the criminal justice system to reduce crime. Author Matt DeLisi draws upon his own practitioner experience, interviewing criminal defendants to argue that career criminals can be combated only with a combination of prevention efforts and retributive criminal justice system policies.

Clinical Informatics Study Guide Springer

This books provides content that arms clinicians with the core

knowledge and competencies necessary to be effective informatics leaders in health care organizations. The content is drawn from the areas recognized by the American Council on Graduate Medical Education (ACGME) as necessary to prepare physicians to become Board Certified in Clinical Informatics. Clinical informaticians transform health care by analyzing, designing, selecting, implementing, managing, and evaluating information and communication technologies (ICT) that enhance individual and population health outcomes, improve patient care

processes, and strengthen the clinician-patient relationship. As the specialty grows, the content in this book covers areas useful to nurses, pharmacists, and information science graduate students in clinical/health informatics programs. These core competencies for clinical informatics are needed by all those who lead and manage ICT in health organizations, and there are likely to be future professional certifications that require the content in this text.

The Information Paradox
Clinical Informatics Study Guide
Text and Review
Propositional logic has been

recognized throughout the centuries as one of the cornerstones of reasoning in philosophy and mathematics. Over time, its formalization into Boolean algebra was accompanied by the recognition that a wide range of combinatorial problems can be expressed as propositional satisfiability (SAT) problems. Because of this dual role, SAT developed into a mature, multi-faceted scientific discipline, and from the earliest days of computing a search was underway to discover how to solve SAT problems in an automated fashion. This book,

the Handbook of Satisfiability, is the second, updated and revised edition of the book first published in 2009 under the same name. The handbook aims to capture the full breadth and depth of SAT and to bring together significant progress and advances in automated solving. Topics covered span practical and theoretical research on SAT and its applications and include search algorithms, heuristics, analysis of algorithms, hard instances, randomized formulae, problem encodings, industrial applications, solvers, simplifiers, tools, case studies

and empirical results. SAT is interpreted in a broad sense, so as well as propositional satisfiability, there are chapters covering the domain of quantified Boolean formulae (QBF), constraints programming techniques (CSP) for word-level problems and their propositional encoding, and satisfiability modulo theories (SMT). An extensive bibliography completes each chapter. This second edition of the handbook will be of interest to researchers, graduate students, final-year undergraduates, and practitioners using or

contributing to SAT, and will provide both an inspiration and a rich resource for their work. Edmund Clarke, 2007 ACM Turing Award Recipient: "SAT solving is a key technology for 21st century computer science." Donald Knuth, 1974 ACM Turing Award Recipient: "SAT is evidently a killer app, because it is key to the solution of so many other problems." Stephen Cook, 1982 ACM Turing Award Recipient: "The SAT problem is at the core of arguably the most fundamental question in computer science: What makes a problem hard?" Auditory Prosthesis

Springer Science & Business Media "Considerable change has transpired in the years since the first edition of this book was published, yet the paradox remains - investments in IT-enabled business change are still not being consistently translated into business value. This is the Information Paradox - the conflict between the widely held belief that information, and

investment in IT to provide that information, is a "good thing" and the all too frequent reality that we cannot demonstrate a connection between IT investments and business results." "John Thorp and Fujitsu Consulting have continued to work with many clients around the world, implementing the Benefits Realization Approach - a unique, client-

tested framework that challenge of IT value introduces a benefits-to provide a focused mindset. Their experience has led to the understanding that the issues with IT value are merely a symptom of a broader business value problem, and to the development of a new, expanded approach - Enterprise Value Management." "A completely new Afterword outlines this new approach which goes beyond the

comprehensive value-driven organizational governance process. It builds on the foundation of benefits realization to help organizations manage value in an increasingly uncertain and real-time business environment. It takes readers to a new level of understanding."--BOOK JACKET.Title Summary field provided by

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13th International Conference, ICCSA 2013, Ho Chi Minh City, Vietnam, June 24-27, 2013, Proceedings, Part V
Springer
The Halden Man-Machine Laboratory (HAMMLAB) has been at the heart of human factors research at the OECD Halden Reactor Project (HRP). The HRP is sponsored by a group of national organizations,

representing nuclear power plant regulators, utilities, and research institutions. The HRP is hosted by the Institute for Energy Technology (IFE) in Halden, Norway. HAMMLAB comprises three full-scale nuclear power plant control room research simulators. The simulator studies performed in HAMMLAB have traditionally been experimental in nature. In a simulator it is possible to study events as they unfold in real time, in a highly realistic operational environment under partially controlled conditions. This means that a wide range of human factors issues, which would be impossible or highly impracticable to study in real-life settings, can thus be addressed in HAMMLAB. Simulator-based Human Factors Studies Across 25 Years celebrates the twenty-fifth anniversary of HAMMLAB by reviewing the human factors studies performed in HAMMLAB across this time-span. A range of human factors issues have been addressed, including:

- human-system interfaces;
- alarm systems;
- computerized procedures;
- human-automation interaction;
- staffing, teamwork and human reliability.

The aim of HAMMLAB studies has always been the same: to generate knowledge for solving current and future challenges in nuclear power plant operation to contribute to safety. The outcomes of HAMMLAB

studies have been used to support design and assessment of nuclear power plant control rooms. Measuring the Impact of Interprofessional Education on Collaborative Practice and Patient Outcomes Springer

This book provides a comprehensive, state-of-the-art review of HBV infection and liver disease. It discusses new data on basic and translational medicine, including the viral life cycle, the immunopathogenesis of virus-induced chronic

hepatitis, viral and host genetic factors affecting disease progression, and the mechanism of virus-induced hepatocarcinogenesis, as well as their potential applications in daily clinical practice. The clinical aspects of chronic HBV infection are examined in chapters on the global epidemiology, efficacy of HBV vaccination, natural history, co-infections with HCV, HDV or HIV, and management of special populations including children, pregnant women and patients undergoing immunosuppressive therapy.

Further, it describes the advances and perspectives in the development of novel antiviral treatments as possible cures for HBV infection. The book is a valuable resource for medical students, physicians, and researchers who are interested in management of patients with chronic HBV infection and investigation of HBV infection.

Donation after Circulatory Death (DCD) Liver Transplantation IOS Press
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There has been increasing interest and debate in recent years on the instituted nature of economic processes in general and the related ideas of the market, in particular the competitive process. This debate lies at the interface between two largely independent disciplines, economics and sociology, and reflects an attempt to bring the two fields of discourse more

closely together. This book explores this interface in a number of ways, looking at the competitive process and market relations from a number of different perspectives. It includes a wide range of contributors, most of whom are leading writers and thinkers in the field. The book considers the social role of economic institutions in society and examines the various meanings embedded in the word 'markets', as well as developing arguments on the nature of

competition as an instituted economic process, rather than as competition being something that disturbs norms or institutions. It goes on to consider the deeper and more involved connection between markets and cognition, explaining how institutions can ease cognitive difficulties, and the effect of culture on markets and competition is also fully studied. This book will be of vital use to students and academics working in the fields of economics,

sociology and business studies. It sketches the agenda for future research about markets and the competitive process.

Museum microclimates

Random House

Transcranial Sonography in Movement Disorders

USA CRREL Technical

Publications Nordic

Council of Ministers

This book constitutes revised selected papers from 7 workshops that were held in conjunction with the ISC High Performance 2016

conference in Frankfurt, Germany, in June 2016.

The 45 papers presented in this volume were carefully reviewed and selected for inclusion in this book. They stem from the following workshops: Workshop on Exascale Multi/Many Core Computing Systems, E-MuCoCoS; Second International Workshop on Communication Architectures at Extreme Scale, ExaComm; HPC I/O in the Data Center Workshop, HPC-IODC;

International Workshop on OpenPOWER for HPC, IWOPH; Workshop on the Application Performance on Intel Xeon Phi – Being Prepared for KNL and Beyond, IXPUG; Workshop on Performance and Scalability of Storage Systems, WOPSSS; and International Workshop on Performance Portable Programming Models for Accelerators, P3MA.

Text and Review
Manchester University Press

The five-volume set LNCS

7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications, ICCSA 2013, held in Ho Chi Minh City, Vietnam in June 2013. The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected. The 46 papers included in the five general tracks are organized in the following topical sections:

computational methods, algorithms and scientific applications; high-performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies. The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science

technologies to specific areas of computational sciences such as computer graphics and virtual reality.

An Untapped Source of Biodiversity and Biotechnological Potential
Springer Nature
INTERNATIONAL BESTSELLER • “Merlin Sheldrake’s marvelous tour of these diverse and extraordinary life forms is eye-opening on why humans should consider fungi among the greatest of earth’s marvels. . . . Wondrous.”—Time A mind-bending journey into the

hidden universe of fungi, “one of those rare books that can truly change the way you see the world around you” (Helen Macdonald, author of *H Is for Hawk*). WINNER OF THE ROYAL SOCIETY SCIENCE BOOK PRIZE • NAMED ONE OF THE BEST BOOKS OF THE YEAR BY Time • BBC Science Focus • The Daily Mail • Geographical • The Times • The Telegraph • New Statesman • London Evening Standard • Science Friday

When we think of fungi, we likely think of mushrooms. But mushrooms are only fruiting bodies, analogous to apples on a tree. Most fungi live out of sight, yet make up a massively

diverse kingdom of organisms that supports and sustains nearly all living systems. Fungi provide a key to understanding the planet on which we live, and the ways we think, feel, and behave. In *Entangled Life*, the brilliant young biologist Merlin Sheldrake shows us the world from a fungal point of view, providing an exhilarating change of perspective. Sheldrake’s vivid exploration takes us from yeast to psychedelics, to the fungi that range for miles underground and are the largest organisms on the planet, to those that link plants together in complex networks known as the “Wood Wide Web,” to those that

infiltrate and manipulate insect bodies with devastating precision. Fungi throw our concepts of individuality and even intelligence into question. They are metabolic masters, earth makers, and key players in most of life’s processes. They can change our minds, heal our bodies, and even help us remediate environmental disaster. By examining fungi on their own terms, Sheldrake reveals how these extraordinary organisms—and our relationships with them—are changing our understanding of how life works. SHORTLISTED FOR THE BRITISH BOOK AWARD • LONGLISTED FOR THE RATHBONES FOLIO

PRIZE “Entangled Life is a gorgeous book of literary nature writing in the tradition of [Robert] Macfarlane and John Fowles, ripe with insight and erudition. . . . Food for the soul.”—Eugenia Bone, Wall Street Journal “[An] ebullient and ambitious exploration . . . This book may not be a psychedelic—and unlike Sheldrake, I haven’t dared to consume my copy (yet)—but reading it left me not just moved but altered, eager to disseminate its message of what fungi can do.”—Jennifer Szalai, *The New York Times Career Criminals in Society* National Academies Press
The link between modern

lifestyles and increasing levels of chronic heart disease, obesity, stress and poor mental health is a concern across the world. The cost of dealing with these conditions places a large burden on national public health budgets so that policymakers are increasingly looking at prevention as a cost-effective alternative to medical treatment. Attention is turning towards interactions between the environment and lifestyles. Exploring the relationships between health, natural

environments in general, and forests in particular, this groundbreaking book is the outcome of the European Union’s COST Action E39 ‘Forests, Trees and Human Health and Wellbeing’, and draws together work carried out over four years by scientists from 25 countries working in the fields of forestry, health, environment and social sciences. While the focus is primarily on health priorities defined within Europe, this volume explicitly draws also on research from North America.

Per and polyfluorinated substances in the Nordic Countries Springer
Practical and user-friendly, this text provides the orthopedic and hand surgeon with all the essential information for diagnosing and treating carpal tunnel syndrome (CTS) and other median neuropathies of the hand and wrist, with special emphasis on challenges and complications. Organized to allow for easy searching of specific subject matter, opening

chapters discuss anatomy of the median nerve, history and pathophysiology of CTS, clinical presentation and diagnosis, including imaging, and severity scoring. Presentation of various treatment strategies follows, both non-operative and surgical, including open and endoscopic techniques and revision surgery, incomplete release, transection, use of the reverse radial forearm flap, vein wrap,

synovial wrap, and microneurolysis. Other median neuropathies are discussed as well, including neuromas and stimulation for chronic median nerve pain. Generously illustrated, *Carpal Tunnel Syndrome and Related Median Neuropathies* is a valuable resource for orthopedic and hand surgeons on the evaluation and treatment of complications and complexities arising from carpal tunnel syndrome and surgery.

Springer Nature

This unique book introduces a variety of techniques designed to represent, enhance and empower multi-disciplinary and multi-institutional machine learning research in healthcare informatics.

Providing a unique compendium of current and emerging machine learning paradigms for healthcare informatics, it reflects the diversity, complexity, and the depth and breadth of this multi-disciplinary area.

Further, it describes techniques for applying

machine learning within organizations and explains how to evaluate the efficacy, suitability, and efficiency of such applications. Featuring illustrative case studies, including how chronic disease is being redefined through patient-led data learning, the book offers a guided tour of machine learning algorithms, architecture design, and applications of learning in healthcare challenges.

The Marine Microbiome

Academic Press

This volume follows and updates AN ANNOTATED BIBLIOGRAPHY ON DIVING

AND SUBMARINE MEDICINE published by Gordon and Breach, Science Publishers, Inc., in 1971. The time period covered is primarily the calendar years 1970 and 1971. Also included, however, is much material from the calendar years 1968 and 1969 not in the previous publication. A brief analysis of the sources of material precedes the citations and abstracts, which comprise the main section of the volume. The bibliography is followed by a permuted subject index and an author index. Also included, following the indexes, is a micro thesaurus. Although no attempt has been made to do a critical subject

analysis, such an analysis could be accomplished through selecting a particular subject, looking up the appropriate key works in the rotated index, identifying the abstracts, analyzing them, obtaining complete copy as desired, and completing the critical review.

David C. Weeks, Ph.D.
Director, BSCP Washington, D.C.

Astronaut Care for
Exploration Missions

National Academies Press
Interprofessional teamwork and collaborative practice are emerging as key elements of efficient and productive work in

promoting health and treating patients. The vision for these collaborations is one where different health and/or social professionals share a team identity and work closely together to solve problems and improve delivery of care. Although the value of interprofessional education (IPE) has been embraced around the world - particularly for its impact on learning - many in leadership positions have questioned how IPE affects patient, population, and health system outcomes. This question cannot be fully

answered without well-designed studies, and these studies cannot be conducted without an understanding of the methods and measurements needed to conduct such an analysis. This Institute of Medicine report examines ways to measure the impacts of IPE on collaborative practice and health and system outcomes. According to this report, it is possible to link the learning process with downstream person or population directed outcomes through thoughtful, well-designed

studies of the association between IPE and collaborative behavior. **Measuring the Impact of Interprofessional Education on Collaborative Practice and Patient Outcomes** describes the research needed to strengthen the evidence base for IPE outcomes. Additionally, this report presents a conceptual model for evaluating IPE that could be adapted to particular settings in which it is applied. **Measuring the Impact of Interprofessional Education on Collaborative Practice and Patient**

Outcomes addresses the current lack of broadly applicable measures of collaborative behavior and makes recommendations for resource commitments from interprofessional stakeholders, funders, and policy makers to advance the study of IPE.

The History of the Halden Man-Machine Laboratory

Academic Press
The 2020 UNODC Global Report on Trafficking in Persons is the fifth of its kind mandated by the General Assembly through the 2010 United Nations Global Plan of Action to Combat Trafficking in

Persons. It covers more than 130 countries and provides an overview of patterns and flows of trafficking in persons at global, regional and national levels, based primarily on trafficking cases detected between 2017 and 2019. As UNODC has been systematically collecting data on trafficking in persons for more than a decade, trend information is presented for a broad range of indicators.

Advances in Simulation and Digital Human Modeling McGraw-Hill

The Congress "Arsenic in the Environment" offers an international, multi-

and interdisciplinary discussion platform for research and innovation aimed towards a holistic solution to the problem posed by the environmental toxin arsenic, with considerable societal impact. The congress has focused on cutting edge and breakthrough research in physical, chemical, toxicological, medical, agricultural and other specific issues on arsenic across a broader environmental realm. The

Congress "Arsenic in the Environment" was first organized in Mexico City (As2006) followed by As2008 in Valencia, Spain, As2010 in Tainan, Taiwan, As2012 in Cairns, Australia and As2014 in Buenos Aires, Argentina. The 6th International Congress As2016 was held June 19-23, 2016 in Stockholm, Sweden and was entitled Arsenic Research and Global Sustainability. The Congress addressed the broader context of arsenic

research along the following themes: Theme 1: Arsenic in Environmental Matrices and Interactions (Air, Water, Soil and Biological Matrices) Theme 2: Arsenic in Food Chain Theme 3: Arsenic and Health Theme 4: Clean Water Technology for Control of Arsenic Theme 5: Societal issues, Policy Studies, Mitigation and Management Long term exposure to low-to-medium levels of arsenic via contaminated food and

drinking water can have a serious impact on human health and globally, more than 100 million people are at risk. Since the end of the 20th century, arsenic in drinking water (mainly groundwater) has emerged as a global health concern. In the past decade, the presence of arsenic in plant foods – especially rice – has gained increasing attention. In the Nordic countries in particular, the use of water-soluble inorganic arsenic chemicals (e.g. chromated copper arsenate, CCA) as wood preservatives and the mining of sulfidic ores have been flagged as health concern. The issue has been accentuated by discoveries of naturally occurring arsenic in groundwater, primarily in the private wells, in parts of the Fennoscandian Shield and in sedimentary formations, with potentially detrimental effects on public health. Sweden has been at the forefront of research on the health effects of arsenic, technological solutions for arsenic removal, and sustainable mitigation measures for developing countries. Hosting this Congress in Sweden was also relevant because historically Sweden has been one of the leading producer of As_2O_3 and its emission from the smelting industries in northern Sweden and has successfully implemented actions to reduce the industrial emissions of arsenic as well as

minimizing the use of materials and products containing arsenic in since 1977. The Congress has gathered professionals involved in different segments of interdisciplinary research in an open forum, and strengthened relations between academia, industry, research laboratories, government agencies and the private sector to share an optimal atmosphere for exchange of knowledge, discoveries and discussions about the

problem of arsenic in the environment and catalyze the knowledge generation and innovations at a policy context to achieve the goals for post 2015 Sustainable Development. *Tools for Policymakers and Public Health Workers* Springer
This timely and hugely practical work provides a score of examples from contemporary and historical scientific presentations to show clearly what makes an oral presentation effective.

It considers presentations made to persuade an audience to adopt some course of action (such as funding a proposal) as well as presentations made to communicate information, and it considers these from four perspectives: speech, structure, visual aids, and delivery. It also discusses computer-based projections and slide shows as well as overhead projections. In particular, it looks at ways of organizing graphics and text in projected images

and of using layout and design to present the information efficiently and effectively.

**A Guide to the Literature
An Annotated
Bibliography, Key Word
Index, and**

Microthesaurus Springer
How people judge humans and machines differently, in scenarios involving natural disasters, labor displacement, policing, privacy, algorithmic bias, and more. How would you feel about losing your job to a machine? How about a tsunami alert system that

fails? Would you react differently to acts of discrimination depending on whether they were carried out by a machine or by a human? What about public surveillance? How Humans Judge Machines compares people's reactions to actions performed by humans and machines. Using data collected in dozens of experiments, this book reveals the biases that permeate human-machine interactions. Are there conditions in which we judge machines unfairly? Is our judgment of machines

affected by the moral dimensions of a scenario? Is our judgment of machine correlated with demographic factors such as education or gender? César Hidalgo and colleagues use hard science to take on these pressing technological questions. Using randomized experiments, they create revealing counterfactuals and build statistical models to explain how people judge artificial intelligence and whether they do it fairly. Through original research, How Humans Judge Machines bring us one step

closer tounderstanding the
ethical consequences of AI.