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This volumes presents the proceedings of ICIBEL 2015, organized by the Centre for Innovation in Medical Engineering (CIME) under Innovative Technology Research Cluster, University of Malaya. It was held in Kuala Lumpur, Malaysia, from 6-8 December 2015. The ICIBEL 2015 conference promotes the latest researches and developments related to the integration of the Engineering technology in medical fields and life sciences. This includes the latest innovations, research trends and concerns, challenges and adopted solution in the field of medical engineering and life sciences. This work on science in the 20th century represents work in America, Europe and Asia. It includes such topics as the countries that have made the most significant contributions, the relationship between science and industry and the importance of instrumentation. A keyword listing of serial titles currently received by the National Library of Medicine. Innovations and Advances in Computing, Informatics, Systems Sciences, Networking and Engineering This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Informatics, and Systems Sciences, and Engineering. It includes selected papers from the conference proceedings of the Eighth and some selected papers of the Ninth International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2012 & CISSE 2013). Coverage includes topics in: Industrial Electronics, Technology & Automation, Telecommunications and Networking, Systems, Computing Sciences and Software Engineering, Engineering Education, Instructional Technology, Assessment, and E-learning. · Provides the latest in a series of books growing out of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering; · Includes chapters in the most advanced areas of Computing, Informatics, Systems Sciences, and Engineering; · Accessible to a wide range of readership, including professors, researchers, practitioners and students. Innovations and Challenges: Women, Language and Sexism brings together an outstanding collection of essays from internationally recognised researchers to recontextualise some of the questions raised by feminist thinkers 40 years ago. By taking linguistically mediated violence as a central topic, this collection's main objective is to explore the different and subtle ways sexism and violence are materialised in discursive practices. In doing so, this book: Takes a multi-stranded investigation into the linguistic and semiotic representations of sexism in societies from an applied linguistic and semiotic perspective; Combines critical discourse analysis, multimodality, interactional sociolinguistics and corpus methodologies to look at language, visuals and semiotic resources in the context of consumerist culture; Examines the conflicted position of women and the discourses of discrimination that still exist in every strand of modern societies; Contextualises pervasive gender issues and reviews key gender and language topics that changed the ways we interpret interaction from the early 1970s until the present; Focuses on institutional discourses and the questions of how women are excluded or discriminated against in the workplace, the law and educational contexts. Innovations and Challenges: Women, Language and Sexism revisits the initial questions posed by the first feminist linguists – where, when and how are women discriminated against and why, in postmodern societies, is there so much sexism in all realms of social life? This book is essential reading for those studying and researching gender across a wide range of disciplines. Within the healthcare domain, big data is defined as any "high volume, high diversity biological, clinical, environmental, and lifestyle information collected from single individuals to large cohorts, in relation to their health and wellness status, at one or several time points." Such data is crucial because within it lies vast amounts of invaluable information that could potentially change a patient's life, opening doors to alternate therapies, drugs, and diagnostic tools. Signal Processing and Machine Learning for Biomedical Big Data thus discusses modalities; the numerous ways in which this data is captured via sensors; and various sample rates and dimensionalities. Capturing, analyzing, storing, and visualizing such massive data has required new shifts in signal processing paradigms and new ways of combining signal processing with machine learning tools. This book covers several of these aspects in two ways: firstly, through theoretical signal processing chapters where tools aimed at big data (be it biomedical or otherwise) are described; and, secondly, through application-driven chapters focusing on existing applications of signal processing and machine learning for big biomedical data. This text aimed at the curious researcher working in the field, as well as undergraduate and graduate students eager to learn how signal processing can help with big data analysis. It is the hope of Drs. Sejdic and Falk that this book will bring together signal processing and machine learning researchers to unlock existing bottlenecks within the healthcare field, thereby improving patient quality-of-life. Provides an overview of recent state-of-the-art signal processing and machine learning algorithms for biomedical big data, including applications in the neuroimaging, cardiac, retinal, genomic, sleep, patient outcome prediction, critical care, and rehabilitation domains. Provides contributed chapters from world leaders in the fields of big data and signal processing, covering topics such as data quality, data compression, statistical and graph signal processing techniques, and deep learning and their applications within the biomedical sphere. This book's material covers how expert domain knowledge can be used to advance signal processing and machine learning for biomedical big data applications. The Encyclopedia of the Neurological Sciences, Second Edition develops from the first edition, covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology, neurosurgery, psychiatry and other related areas of neuroscience. The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field. Entries are designed to be understandable

without detailed background knowledge in the subject matter, and cross-referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding. The easy-to-use 'encyclopedic-dictionary' format of the Encyclopedia of the Neurological Sciences, Second Edition features alphabetic entries, extensive cross-referencing, and a thorough index for quick reference. The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers, from undergraduate students to academic researchers. Provides comprehensive coverage of the field of neurological science in over 1,000 entries in 4 volumes "Encyclopedic-dictionary" format provides for concise, readable entries and easy searching Presents complete, up-to-date information on 32 separate areas of neurology Entries are supplemented with extensive cross-referencing, useful references to primary research articles, and an extensive index With over forty chapters, written by leading scholars, this comprehensive volume represents the best work in America, Europe, and Asia. Geographical diversity of the authors is reflected in the different perspectives devoted to the subject, and all major disciplinary developments are covered. There are also sections concerning the countries that have made the most significant contributions, the relationship between science and industry, the importance of instrumentation, and the cultural influence of scientific modes of thought. Students and professionals will come to appreciate how, and why, science has developed - as with any other human activity, it is subject to the dynamics of society and politics. This volume brings together selected contributed papers presented at the International Conference of Computational Methods in Science and Engineering (ICCMSE 2006), held in Chania, Greece, October 2006. The conference aims to bring together computational scientists from several disciplines in order to share methods and ideas. The ICCMSE is unique in its kind. It regroups original contributions from all fields of the traditional Sciences, Mathematics, Physics, Chemistry, Biology, Medicine and all branches of Engineering. It would be perhaps more appropriate to define the ICCMSE as a conference on computational science and its applications to science and engineering. Topics of general interest are: Computational Mathematics, Theoretical Physics and Theoretical Chemistry. Computational Engineering and Mechanics, Computational Biology and Medicine, Computational Geosciences and Meteorology, Computational Economics and Finance, Scientific Computation. High Performance Computing, Parallel and Distributed Computing, Visualization, Problem Solving Environments, Numerical Algorithms, Modelling and Simulation of Complex System, Web-based Simulation and Computing, Grid-based Simulation and Computing, Fuzzy Logic, Hybrid Computational Methods, Data Mining, Information Retrieval and Virtual Reality, Reliable Computing, Image Processing, Computational Science and Education etc. More than 800 extended abstracts have been submitted for consideration for presentation in ICCMSE 2005. From these 500 have been selected after international peer review by at least two independent reviewers. Semiotic engineering was originally proposed as a semiotic approach to designing user interface languages. Over the years, with research done at the Department of Informatics of the Pontifical Catholic University of Rio de Janeiro, it evolved into a semiotic theory of human-computer interaction (HCI). It views HCI as computer-mediated communication between designers and users at interaction time. The system speaks for its designers in various types of conversations specified at design time. These conversations communicate the designers' understanding of who the users are, what they know the users want or need to do, in which preferred ways, and why. The designers' message to users includes even the interactive language in which users will have to communicate back with the system in order to achieve their specific goals. Hence, the process is, in fact, one of communication about communication, or metacommunication. Semiotic engineering has two methods to evaluate the quality of metacommunication in HCI: the semiotic inspection method (SIM) and the communicability evaluation method (CEM). Up to now, they have been mainly used and discussed in technical contexts, focusing on how to detect problems and how to improve the metacommunication of specific systems. In this book, Clarisse de Souza and Carla Leitão discuss how SIM and CEM, which are both qualitative methods, can also be used in scientific contexts to generate new knowledge about HCI. The discussion goes into deep considerations about scientific methodology, calling the reader's attention to the essence of qualitative methods in research and the kinds of results they can produce. To illustrate their points, the authors present an extensive case study with a free open-source digital audio editor called Audacity. They show how the results obtained with a triangulation of SIM and CEM point at new research avenues not only for semiotic engineering and HCI but also for other areas of computer science such as software engineering and programming. Table of Contents: Introduction / Essence of Semiotic Engineering / Semiotic Engineering Methods / Case Study with Audacity / Lessons Learned with Semiotic Engineering Methods / The Near Future of Semiotic Engineering Die Komplexität in der Fahrzeugtechnik für Mobilitätsangebote wächst. Fahrzeugingenieurinnen und -ingenieure und Personen in allen Bereichen der Mobilität benötigen in der Praxis und Ausbildung den sicheren und raschen Zugriff auf Grundlagen und Details der Fahrzeugtechnik, der Vernetzung und deren dazugehörigen industriellen Prozessen. Diese Informationen sind in der aktuellen Auflage umfassend dargestellt. Neben der Berücksichtigung der aktuellen Fortschritte der Automobile wird besonders auf die rasante Entwicklung für Hybrid- und Elektrofahrzeuge eingegangen. Daneben beeinflusst die Vernetzung der Fahrzeuge untereinander und mit der äußeren Verkehrsinfrastruktur sowie das automatisierte Fahren sehr stark die Entwicklung auf dem Mobilitätssektor. In der 8. Auflage sind viele Neuerungen auf dem Gebiet Mobilität, Verbrennungsmotor, Hybrid- und Elektroantrieb, Brennstoffzelle, Fahrzeugsicherheit, Elektrik, Elektronik und Vernetzung eingearbeitet. Die Autoren sind exzellente Fachleute der Automobil- und Zuliefererindustrie sowie der Universitäten. Sie stellen sicher, dass Theorie und Praxis vernetzt dargestellt werden. With over forty chapters, written by leading scholars, this comprehensive volume represents the best work in America, Europe and Asia. Geographical diversity of the authors is reflected in the different perspectives devoted to the subject, and all major disciplinary developments are covered. There are also sections concerning the countries that have made the most significant contributions, the relationship between science and industry, the importance of instrumentation, and the cultural influence of scientific modes of thought. Students and professionals will come to appreciate how, and why, science has developed - as with any other human activity, it is subject to the dynamics of society and politics. Squamous cell cancers of the head and neck (SCCHN), also known as head and neck cancers (HNC) encompass malignancies of the oral cavity, larynx, nasopharynx and pharynx, and are diagnosed in over 500,000 patients worldwide each year, accounting for 5% of all malignancies. It is estimated that approximately 50,000 patients develop head and neck cancer annually in the United States, of whom approximately 50% succumb to this cancer. For most cases of SCCHN, treatment is multimodal, often combining surgery or irradiation with chemotherapy; even successfully treated patients frequently experience durable and severe side effects. Improving cure rates and reducing chronic morbidity are urgent clinical needs for head and neck cancer. However, in contrast to cancer types such as breast or prostate that have been much studied and have well-defined biology, until recently, relatively few researchers investigated the molecular basis of HNC, making it difficult to design targeted treatments with better efficacy and less debilitating side effects. This volume will provide an overview of the factors contributing to disease pathogenesis, including the recognition of discrete molecular subtypes with distinct etiology, prognosis, and treatment response. This volume will familiarize the reader with the critical signaling pathways and oncogenic drivers for HNC. It will outline the differences between HPV-positive and HPV-negative disease, and how these differences affect treatment choice and outcome. The book will emphasize developments in the past five years, including the growing understanding of the genomic and epigenomic features of the disease based on analysis of next generation sequencing (NGS) data, and timely topics such as the analysis of HNC stem cell populations, non-coding mRNAs, and inflammatory response. It will address exciting new therapeutic approaches such as the use of

immunotherapies to treat HNC patients. Overall, the book will provide the reader with current understanding of the biology and treatment of the disease, and describe timely questions that will guide future research aimed at controlling and curing this disease. This book explains the concepts of Ethical Business Practice (EBP) and Ethical Business Regulation (EBR), a new paradigm in compliance and enforcement based on behavioural science and ethics. EBR provides the basis for an effective relationship between a business and its regulators, resulting in better outcomes for both. EBR is attracting extensive attention from regulators and businesses around the world. The UK Government's 2017 Regulatory Futures Review draws on EBR as the foundation for its policy of 'regulatory self-assurance'. EBR draws on findings from behavioural science, responsive regulation, safety and business and integrity management to create a practical and holistic approach. Examples include the open culture that is essential for civil aviation safety, the Primary Authority agreements between regulators and national businesses, and feedback mechanisms provided by market vigilance systems and sectoral consumer ombudsmen. This book provides an essential blueprint for sustainable business and effective future regulation.

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