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The 4th FTRA International Conference on Computer Science and its Applications (CSA-12) will be held in Jeju, Korea on November 22~25, 2012. CSA-12 will be the most comprehensive conference focused on the various aspects of advances in computer science and its applications. CSA-12 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of CSA. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in CSA. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. CSA-12 is the next event in a series of highly successful International Conference on Computer Science and its Applications, previously held as CSA-11 (3rd Edition: Jeju, December, 2011), CSA-09 (2nd Edition: Jeju, December, 2009), and CSA-08 (1st Edition: Australia, October, 2008). We develop a simple model that computes the probability that a strike at the output of a gate has an impact in any output by traversing the circuits backwards from the outputs and gaining information about the logical masking using signal probabilities. The model is validated with fault injection. Logic circuits are becoming increasingly susceptible to probabilistic behavior caused by external radiation and process variation. In addition, inherently probabilistic quantum- and nano-technologies are on the horizon as we approach the limits of CMOS scaling. Ensuring the reliability of such circuits despite the probabilistic behavior is a key challenge in IC design---one that necessitates a fundamental, probabilistic reformulation of synthesis and testing techniques. This monograph will present techniques for analyzing,

designing, and testing logic circuits with probabilistic behavior. "Comprising more than 500 entries, the Encyclopedia of Research Design explains how to make decisions about research design, undertake research projects in an ethical manner, interpret and draw valid inferences from data, and evaluate experiment design strategies and results. Two additional features carry this encyclopedia far above other works in the field: bibliographic entries devoted to significant articles in the history of research design and reviews of contemporary tools, such as software and statistical procedures, used to analyze results. It covers the spectrum of research design strategies, from material presented in introductory classes to topics necessary in graduate research; it addresses cross- and multidisciplinary research needs, with many examples drawn from the social and behavioral sciences, neurosciences, and biomedical and life sciences; it provides summaries of advantages and disadvantages of often-used strategies; and it uses hundreds of sample tables, figures, and equations based on real-life cases."--Publisher's description. Compliance with federal equal employment opportunity regulations, including civil rights laws and affirmative action requirements, requires collection and analysis of data on disparities in employment outcomes, often referred to as adverse impact. While most human resources (HR) practitioners are familiar with basic adverse impact analysis, the courts and regulatory agencies are increasingly relying on more sophisticated methods to assess disparities. Employment data are often complicated, and can include a broad array of employment actions (e.g., selection, pay, promotion, termination), as well as data that span multiple protected groups, settings, and points in time. In the era of "big data," the HR analyst often has access to larger and more complex data sets relevant to employment disparities. Consequently, an informed HR practitioner needs a richer understanding of the issues and methods for conducting disparity analyses. This book brings together the diverse literature on

disparity analysis, spanning work from statistics, industrial/organizational psychology, human resource management, labor economics, and law, to provide a comprehensive and integrated summary of current best practices in the field. Throughout, the description of methods is grounded in the legal context and current trends in employment litigation and the practices of federal regulatory agencies. The book provides guidance on all phases of disparity analysis, including: How to structure diverse and complex employment data for disparity analysis How to conduct both basic and advanced statistical analyses on employment outcomes related to employee selection, promotion, compensation, termination, and other employment outcomes How to interpret results in terms of both practical and statistical significance Common practical challenges and pitfalls in disparity analysis and strategies to deal with these issues "This multiple-volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers"--Provided by publisher. A guide to all aspects of experimental design and data analysis for fMRI experiments, completely revised and updated for the second edition. Functional magnetic resonance imaging (fMRI), which allows researchers to observe neural activity in the human brain noninvasively, has revolutionized the scientific study of the mind. An fMRI experiment produces massive amounts of highly complex data for researchers to analyze. This book describes all aspects of experimental design and data analysis for fMRI experiments, covering every step—from preprocessing to advanced methods for assessing functional connectivity—as well as the most popular multivariate approaches. The goal is not to describe which buttons to push in the popular software packages but to help researchers understand the basic underlying logic, the assumptions, the strengths and weaknesses, and the appropriateness of each method. The field of fMRI research

has advanced dramatically in recent years, in both methodology and technology, and this second edition has been completely revised and updated. Six new chapters cover experimental design, functional connectivity analysis through the methods of psychophysiological interactions and beta-series regression, decoding using multi-voxel pattern analysis, dynamic causal modeling, and representational similarity analysis. Other chapters offer new material on recently discovered problems related to head movements, the multivariate GLM, meta-analysis, and other topics. All complex derivations now appear at the end of the relevant chapter to improve readability. A new appendix describes how to build a design matrix with effect coding for group analysis. As in the first edition, MATLAB code is provided with which readers can implement many of the methods described. This book is intended for readers who are interested in the design of robust and reliable electronic digital systems. The authors cover emerging trends in design of today's reliable electronic systems which are applicable to safety-critical applications, such as automotive or healthcare electronic systems. The emphasis is on modeling approaches and algorithms for analysis and mitigation of soft errors in nano-scale CMOS digital circuits, using techniques that are the cornerstone of Computer Aided Design (CAD) of reliable VLSI circuits. The authors introduce software tools for analysis and mitigation of soft errors in electronic systems, which can be integrated easily with design flows. In addition to discussing soft error aware analysis techniques for combinational logic, the authors also describe new soft error mitigation strategies targeting commercial digital circuits. Coverage includes novel Soft Error Rate (SER) analysis techniques such as process variation aware SER estimation and GPU accelerated SER analysis techniques, in addition to SER reduction methods such as gate sizing and logic restructuring based SER techniques. Affective brain circuits underpin our moods and emotions. Appetitive and aversive stimuli from our exteroceptive and interoceptive worlds

play a key role in the activity of these circuits, but we still do not know precisely how to characterize these so-called reward-related and aversion-related systems. Moreover, we do yet understand how they interact anatomically or functionally. The aim of the current project was to gather some translational evidence to help clarify the role of such circuits. A multi-dimensional problem in its own right, the book contains 14 works from authors exploring these questions at many levels, from the cellular to the cognitive-behavioural, and from both experimental and conceptual viewpoints. The editorial which introduces the book provides brief summaries of each perspective (Hayes, Northoff, Greenshaw, 2015). While questions of how to accurately define affect- and emotion-related concepts at the psychological level are far from answered, here we have attempted to provide some insight into the brain-based underpinnings of such processes. The near future will undoubtedly involve making new inroads and will require the joint efforts of behavioural, brain-based, and philosophical perspectives to do so. In recent years, Wireless Local Area Networks (WLANs) has become a promising and successful technology. It provides free wireless connectivity between two or more devices by using a wireless communication method. It offers an easy and viable access to the network. The initial version of WiMAX 802.16-2004 operated at high frequency range use certain type of antenna mounted on WiMAX base station and subscriber station to provide data in line of sight manner. To overcome these limitations we use scalable OFDMA with MIMO technology to support wide range of bandwidth by varying the size of FFT. In this book, MATLAB coding is used to calculate the bit error rate for different extensions of IEEE 802.11 and IEEE 802.16e system model that minimize the number of communication errors. Here we have used different modulation schemes and OFDM technique to obtain higher data rate and achieve best bit error rate. It represents simulation result of IEEE 802.11 extensions and 802.16e PHY layer model. This volume



presents the proceedings of the International COST 237 Workshop, held in Vienna in November 1994 in the framework of the CEC COST 237 Multimedia Telecommunications Services Projects. The 24 papers presented in revised version were selected from 46 submissions; they are organized in sections on teleservices, multimedia mail, archiving and retrieving; teleservice support; quality of service and synchronization; multipeer communication; broadband network transport issues; and variable bit rate video coding transport. This book presents the state of the art of biostatistical methods and their applications in clinical oncology. Many methodologies established today in biostatistics have been brought about through its applications to the design and analysis of oncology clinical studies. This field of oncology, now in the midst of evolution owing to rapid advances in biotechnologies and cancer genomics, is becoming one of the most promising disease fields in the shift toward personalized medicine. Modern developments of diagnosis and therapeutics of cancer have also been continuously fueled by recent progress in establishing the infrastructure for conducting more complex, large-scale clinical trials and observational studies. The field of cancer clinical studies therefore will continue to provide many new statistical challenges that warrant further progress in the methodology and practice of biostatistics. This book provides a systematic coverage of various stages of cancer clinical studies. Topics from modern cancer clinical trials include phase I clinical trials for combination therapies, exploratory phase II trials with multiple endpoints/treatments, and confirmative biomarker-based phase III trials with interim monitoring and adaptation. It also covers important areas of cancer screening, prognostic analysis, and the analysis of large-scale molecular data in the era of big data. The death of Professor K.C. Sreedharan Pillai on June 5, 1985 was a heavy loss to many statisticians all around the world. This volume is dedicated to his memory in recognition of his many contributions in multivariate statistical analysis. It brings

together eminent statisticians Working in multivariate analysis from around the world. The research and expository papers cover a cross-section of recent developments in the field. This volume is especially useful to researchers and to those who want to keep abreast of the latest directions in multivariate statistical analysis. I am grateful to the authors from so many different countries and research institutions who contributed to this volume. I wish to express my appreciation to all those who have reviewed the papers. The list of people include Professors T.C. Chang, So-Hsiang Chou, Dipak K. Dey, Peter Hall, Yu-Sheng Hsu, J.D. Knoke, W.J. Krzanowski, Edsel Pena, Bimal K. Sinha, Dennis L. Young, Drs. K. Krishnamoorthy, D.K. Nagar, and Messrs. Alphonse Amey, Chi-Chin Chao and Samuel Ofori-Nyarko. I wish to thank Professors Shanti S. Gupta and James O. Berger for their keen interest and encouragement. Thanks are also due to Cynthia Patterson for her help and Reidel Publishing Company for their cooperation in bringing this volume out. Enables readers to start doing actual data analysis fast for a truly hands-on learning experience This concise and very easy-to-use primer introduces readers to a host of computational tools useful for making sense out of data, whether that data come from the social, behavioral, or natural sciences. The book places great emphasis on both data analysis and drawing conclusions from empirical observations. It also provides formulas where needed in many places, while always remaining focused on concepts rather than mathematical abstraction. SPSS Data Analysis for Univariate, Bivariate, and Multivariate Statistics offers a variety of popular statistical analyses and data management tasks using SPSS that readers can immediately apply as needed for their own research, and emphasizes many helpful computational tools used in the discovery of empirical patterns. The book begins with a review of essential statistical principles before introducing readers to SPSS. The book then goes on to offer chapters on: Exploratory Data Analysis, Basic Statistics, and Visual Displays; Data Management in

SPSS; Inferential Tests on Correlations, Counts, and Means; Power Analysis and Estimating Sample Size; Analysis of Variance – Fixed and Random Effects; Repeated Measures ANOVA; Simple and Multiple Linear Regression; Logistic Regression; Multivariate Analysis of Variance (MANOVA) and Discriminant Analysis; Principal Components Analysis; Exploratory Factor Analysis; and Non-Parametric Tests. This helpful resource allows readers to: Understand data analysis in practice rather than delving too deeply into abstract mathematical concepts Make use of computational tools used by data analysis professionals. Focus on real-world application to apply concepts from the book to actual research Assuming only minimal, prior knowledge of statistics, SPSS Data Analysis for Univariate, Bivariate, and Multivariate Statistics is an excellent “how-to” book for undergraduate and graduate students alike. This book is also a welcome resource for researchers and professionals who require a quick, go-to source for performing essential statistical analyses and data management tasks. This book constitutes the refereed proceedings of the 5th International Conference on Wired/Wireless Internet Communications, WWIC 2007, held in Coimbra, Portugal in May 2007. The 32 revised full papers cover transport layer issues, handover and QoS, traffic engineering, audio/video over IP, IEEE 802.11 WLANs, sensor networks, protocols for ad-hoc and mesh networks, as well as OFDM systems. Discover the tools for knowing the costs your company should cut, without impacting its ability to deliver goods and services New from Steve Bragg, this book provides the tools for determining which costs a company should cut, without impacting its ability to deliver goods and services. It explains how to use throughput analysis in order to locate bottleneck operations in a company, which in turn dictates where capital investments should (and should not) be made. Delves into process analysis, to determine where excess resources are being used in a business process Describes the total cost of ownership, showing how a single

purchasing decision actually snowballs into a variety of ancillary costs Shows how to create and use a spend management system to reduce procurement costs Shows how just-in-time systems can be used to eliminate inventory costs Cost Reduction Analysis: Tools and Strategies provides examples to show how much cost can potentially be eliminated to avoid drastic action later that can imperil your corporation's direction and future. Elucidating fundamental design principles by means of accurate trade-off analysis of relevant design options using suitable mathematical tools, this is the first book to provide a coherent treatment of transmission technologies essential to current and future wireless systems. Develop in-depth knowledge of the capabilities and limitations of wireless transmission technologies in supporting high-quality wireless transmission services, and foster a thorough understanding of various design trade-offs, to help identify an ideal choice for your own application requirements. Key technologies such as advanced diversity combining, multi-user scheduling, multi-user multi-antenna transmission, relay transmission, and cognitive radio are examined, making this an essential resource for senior graduate students, researchers, and engineers working in wireless communications.

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