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probability and statistics theme is a component of encyclopedia of mathematical sciences in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the theme with contributions from distinguished experts in the field discusses probability and statistics probability is a standard mathematical concept to describe stochastic uncertainty probability and statistics can be considered as the two sides of a coin they consist of methods for modeling uncertainty and measuring real phenomena today many important political health and economic decisions are based on statistics this theme is structured in five main topics probability and statistics probability theory stochastic processes and random fields probabilistic models and methods foundations of

statistics which are then expanded into multiple subtopics each as a chapter these three volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

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j medhi is a familiar name in applied probability and stochastic processes he made important contributions to many aspects of stochastic processes as well as stochastic systems which were studied via their fundamental structures he stimulated others to study these aspects through his writings and his extremely well organised lucidly written text stochastic processes which has become a classic his other books recent developments in bulk queueing models and stochastic models in queueing theory have proved to be most useful as reference sources for research workers the present volume dedicated to medhi on the occasion of his 70th birthday contains papers by his friends admirers colleagues and students besides original work it

contains exhaustive expository surveys on some recently developed theories on stochastic processes and statistics the contributors are david d yao pranab kumar sen krishna b athreya t subba rao h c tijms j w hogenkamp u narayan bhat deepankar medhi d logothetis v mainkar k trivedi m l chaudhry u c gupta m mazumdar s w li f shih david tipper darren dawson grace w s chong s h sim j g c templeton danny i cho prakash l abad mahmut parlar a subramanian v anantharaman manju agarwal maitreyee chaudhuri kanwar sen ritu jam asit p basu and s p mukherjee the two editors a c borthakur and h choudhury are professors of statistics gauhati university india both of them have several publications in national and international journals

sir david cox s most important papers each the subject of a new commentary by professor cox

this text the second volume of wayne winston s successful operations research applications and algorithms fourth edition covers topics in probability models and addresses the substantial contribution of probability modeling in the last five years to the fields of financial engineering computational simulation and manufacturing the specific attention to probability models with the addition of recent practical breakthroughs makes this the first text to introduce these ideas together at an accessible level

this fifth volume on advances and applications of dsmt for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics and is available in open access the collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs unm edu dsmt book4 pdf or onera fr sites default files 297 2015 dsmt book4 pdf in international conferences seminars workshops and journals or they are new the contributions of each part of this volume are chronologically ordered first part of this book presents some theoretical advances on dsmt dealing

mainly with modified proportional conflict redistribution rules pcr of combination with degree of intersection coarsening techniques interval calculus for pcr thanks to set inversion via interval analysis sivia rough set classifiers canonical decomposition of dichotomous belief functions fast pcr fusion fast inter criteria analysis with pcr and improved pcr5 and pcr6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their matlab codes because more applications of dsmt have emerged in the past years since the apparition of the fourth book of dsmt in 2015 the second part of this volume is about selected applications of dsmt mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection gps systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines svm silx furtif rust code library for information fusion including pcr rules and network for ship classification finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 these contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques mixing deep learning with belief functions as well

hydrological systems modeling is a component of encyclopedia of water

sciences engineering and technology resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias this 2 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations it carries state of the art knowledge in the fields of hydrological systems modeling and is aimed by virtue of the several applications at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

the aim of this book is to provide a uniquely comprehensive source of information on the entire field of radiation therapy physics the very significant advances in imaging computational and accelerator technologies receive full consideration as do such topics as the dosimetry of radiolabeled antibodies and dose calculation models the scope of the book and the expertise of the authors make it essential reading for interested physicians and physicists and for radiation dosimetrists

probability models volume 51 in the handbook of statistics series highlights new advances in the field with this new volume presenting interesting chapters on stein s methods probabilities and thermodynamics third law random matrix theory general tools for understanding fluctuations of random variables an approximation scheme to compute the fisher rao distance between multivariate normal distributions probability models applied to reliability and availability engineering backward stochastic differential equation stochastic optimization theory and viscous solution of hjb equation and much more additional chapters cover probability models in machine learning the recursive stochastic algorithm randomized urn models and response adaptive randomization in clinical trials random matrix theory local laws and applications koo methods and their high dimensional consistencies in some multivariate models fourteen lectures on inference for stochastic

processes and a multivariate cumulative damage model and some applications provides the latest information on probability models offers outstanding and original reviews on a range of probability models research topics serves as an indispensable reference for researchers and students alike

three coherent parts form the material covered in this text portions of which have not been widely covered in traditional textbooks in this coverage the reader is quickly introduced to several different topics enriched with 175 exercises which focus on real world problems exercises range from the classics of probability theory to more exotic research oriented problems based on numerical simulations intended for graduate students in mathematics and applied sciences the text provides the tools and training needed to write and use programs for research purposes the first part of the text begins with a brief review of measure theory and revisits the main concepts of probability theory from random variables to the standard limit theorems the second part covers traditional material on stochastic processes including martingales discrete time markov chains poisson processes and continuous time markov chains the theory developed is illustrated by a variety of examples surrounding applications such as the gambler s ruin chain branching processes symmetric random walks and queueing systems the third more research oriented part of the text discusses special stochastic processes of interest in physics biology and sociology additional emphasis is placed on minimal models that have been used historically to develop new mathematical techniques in the field of stochastic processes the logistic growth process the wright fisher model kingman s coalescent percolation models the contact process and the voter model further treatment of the material explains how these special processes are connected to each other from a modeling perspective as well as their simulation capabilities in c and matlabtm

in june of 1990 a conference was held on probablity models and statisti cal analyses for ranking data under the joint auspices of the american mathematical society the institute for mathematical statistics and the society of industrial and applied mathematicians the conference took place at the university of massachusetts amherst and was attended by 36 participants including statisticians mathematicians psychologists and sociologists from the united states canada israel italy and the nether lands there were 18 presentations on a wide variety of topics involving ranking data this volume is a collection of 14 of these presentations as well as 5 miscellaneous papers that were contributed by conference participants we would like to thank carole kohanski summer program coordinator for the american mathematical society for her assistance in arranging the conference m steigerwald for preparing the manuscripts for publication martin gilchrist at springer verlag for editorial advice and persi diaconis for contributing the foreword special thanks go to the anonymous referees for their careful readings and constructive comments finally we thank the national science foundation for their sponsorship of the ams ims siam joint summer programs contents preface vii conference participants xiii foreword xvii 1 ranking models with item covariates 1 d e critchlow and m a fligner 1 1 introduction 1 1 2 basic ranking models and their parameters 2 1 3 ranking models with covariates 8 1 4 estimation 9 1 5 example 11 1 6 discussion 14 1 7 appendix 15 1 8 references

this paper provides empirical evidence on the relationship between trading volumes volatility and bid ask spreads in foreign exchange markets it uses a new data set that includes daily data on trading volumes for the dollar exchange rates of seven currencies from emerging market countries the sample period is 1 january 1998 to 30 june 1999 the results are broadly consistent with the findings of the literature that used futures volumes as proxies for total foreign exchange trading i find that in most cases unexpected trading volumes and volatility are positively correlated

suggesting that both are driven by the arrival of public information as predicted by the mixture of distributions hypothesis i also find that the correlation between trading volumes and volatility is positive during normal periods but turns negative when volatility increases sharply finally the results suggest that volatility and spreads are positively correlated as suggested by inventory cost models however contrary to the prediction of these models i do not find evidence of a significant impact of unexpected trading volumes on spreads

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Introduction

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