



# CPMs

## CPM 1 Statistical distributions

A suitable estimation for a skew-symmetric density function

An Alternative Estimator for the Shape Parameter in the Negative Binomial Distribution

Bilateral Gamma Processes and Applications

Bimatrix variate Beta type IV distribution and its relation to the Wilks's statistic

Relative distribution of a pair of distinct pdfs with negligible difference between cumulant generating functions

Skewed Student's t Copula: Modeling of Asymmetric Dependence

## CPM 2 Statistics and the web

An innovative approach to web-based dissemination for statistical story tellers

Communicating Official Statistics On the Internet Using Data Visualizations: The Philippine Experience

Promoting Open Innovation for Data Visualization

Scale-space visualization tool for the comparison of time series

## CPM 3 Interactive methods in teaching

Evaluate Effectiveness of Interactive Videoconferencing System and WEB Aided Course Repetition in Medical Instruction



Interactive Exploration of Statistical and Probabilistic Concepts in Algorithms

Perform statistical and engineering analysis with the Excel Analysis ToolPak

The Effect of Using DVD in Teaching First-Year Calculus at a Distance: The Use of the Kolmogorov-Smirnov Test

Web materials for Statistics Education via CAUSEweb

#### **CPM 4 Discriminant Analysis**

A BCa method for the problem of regions

Generalizing the margin concept to arbitrary classifiers

On supervised learning of multivariate skew normal mixture models with missing information

Relative efficiency of non parametric error rate estimators in multi-group linear discriminant analysis

Selection of variables for discriminant analysis in a high-dimensional case

Test for Additional Information in Non-normal Discriminant Analysis by Two Approaches

#### **CPM 5 Bootstrap Methods**

A Bootstrap Approach to Intruder Detection Using a k-means like Algorithm

Bootstrapping for significance in multi-dimensional compact clustering models

Multidimensional Analysis of Poverty in Benin: Fuzzy Subset Approach A

On choosing a mixture model for clustering

Variable selection in a Model-Based Clustering for multilocus genotype data



## CPM 6 Stochastic processes

Analyse de la polyvalence: cas des machinistes (conducteurs d'autobus) de la société des transports abidjanais (SOTRA)

Le Bruit de Grenaille à Paramètres Aléatoires (Shot Noise with Random Parameters)

Normalite Asymptotique de l'Estimateur à Noyau mobile de l'Indice de Pauvreté

Strong Consistency of Nonparametric Regression functions in Competing Risks Model

Testing of homogeneity in the variance of wavelet coefficients

Un test d'homogénéité pour des données fonctionnelles

## CPM 7 Resampling methods

Comparison of Sampling Methods by using Bootstrap Method

Comparison of the Classical Methods with the Bootstrap Computer Intensive Techniques in Estimating Parameters of the Bivariate Poisson Distribution

New Bootstrap Methods for Complex Sampling Design in Finite Population

Regenerative Bootstrap for U-Statistics of Markov Chains

The Power of Bootstrap Tests of Co-integration Rank with Financial Time Series

## CPM 8 Statistical inference

Confidence Intervals for A Bounded Mean in Exponential Families

Double Misspecified Models and Local Model Uncertainties

Methodologies for Recurrent Event Data Under Competing Risks



Moment and CAN estimators for the expected number of customers and the expected service time per customer in the system of a tandem queue

On sufficient conditions for admissibility under LINEX loss

Some New Research about the Consistency Problem of Parameter Estimated of Linear Regression Model

#### **CPM 9 Measurement errors**

Comparative study of estimators of linear model in the presence of some least squares violations  
Estimation of Population Distribution Functions from Samples Contaminated by Measurement Errors

Instrumental Variable Estimation in Measurement Error Model under Exact Restrictions

Logistic Regression with Non-Precise Response

Measurement Error in Physical Activity Data

Regression quantiles with errors-in-variables

#### **CPM 10 Bayesian methods**

A Bayesian Inference Approach to the Content-Based Image Retrieval Problem

Bayesian Model Selection in Linear Mixed Effects Models with AR(1) Errors

Constrained Bayes Estimator in Elliptical Models

Empirical-type likelihoods: Role of data-dependent priors

Multivariate Beta Regression



### **CPM 11 Statistical Process and Quality Control**

- Controlling Process Means and Variances Using VSSI Cause Selecting Control Charts
- Cumulative-Sum and Exponentially Weighted Moving Average Control Charts using Single Median Ranked Set Samples
- Early Detection Statistics with Online Multivariate Data: The 4i Rule, Fisher Information and Average Detection Delay
- Follow up of respiratory diseases using Control charts with variables control limits
- Identification of Product and Process Variables that May Be Critical for Process Monitoring and Product Quality
- Inverse Cusum Chart and Its Application

### **CPM 12 Statistical Education**

- Analysis of the Malaysian Certificate of Education Statistics and Probability Examination Questions
- Constructing Similar, but Different, Examinations
- Global certification exams integrated into graduate statistics courses
- Statistics' 'next top-models': testing changes in attitudes toward statistics
- The work in groups as a motivator in Statistics classes
- Using Assessments to Help Students Learn



### CPM 13 Aspects of distribution theory

Discrete Laplace distribution and Process

Implementation strategy of the CNAE 2.0

On a Quasi-Optimal Regularization Parameter for TLS Estimation Within an EIV-Model

Smooth Minimum Distance Estimation and Testing in Conditional Moment Restrictions Models: Uniform in Bandwidth Theory

The approximation to a percentage point of the distribution of the non-central t-statistic under non-normality

### CPM 14 Entropy

How to solve problems with Entropy? The case of Simulated Annealing

Maximum of Second-Order Taylor Approximation of Entropy with Given Marginals and Correlations

Rule-based Classification Using the Entropy Distribution

Shannon Entropy and Statistics

Shannon Entropy for Known and Unknown Bivariate Beta Distributions

Some characterizations using Shannon information properties of certain records

### CPM 15 Small area estimation

Estimation of poverty indicators at the small area level in Italy

Intercensal Small Area Poverty Estimation: The Philippine Experience

Small Area Estimation of the Ukrainian Unemployment Rate



Small Area Estimation of Unemployment for Cross Cutting Geographies in Great Britain  
The Trends of Poverty and Migration, and Changes in the Demographics of Household Structure in the Magisterial Districts of the North West Province (South Africa)

**CPM 16 Robust statistics**

Comparison of Robust Estimators in One-Way-Classification Experimental Design Model  
Estimation in Logistic Regression Models with Bivariate Stochastic Covariates  
Monte Carlo Procedure With Pseudo-Medians For Asymmetric Distributions  
Robust recursive methods in time series  
The BACON Approach for Rank-Deficient Data  
The Generalized Bootstrap and Robust Estimates for Mixed Models

**CPM 18 Experimental design**

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Efficiency Balanced Block Designs for Diallel Cross Experiments  
Locally D-optimal designs for a dose-response model with two explanatory variables  
On Circuits and Automorphism Groups for Discriminating Three Optimal (4x4)/4 Semi-Latin Square Designs  
Optimal Designs for Biomedical Research via the World Wide Web  
Trend-Free Designs in Blocked Factorial



### CPM 19 **Statistics in Genetics**

Estimating genetic models involving nonlinear constraints and IRT measurement models  
Galton revisited: detecting heritability  
Genome-wide association scans for common disease variants in multiethnic populations  
Heritability established, what next?  
How many different HLA genotypes exist in a population?  
Phyloclustering: New Phylogenetic Methods for Inferring Population Structure

### CPM 21 **Clinical Trials**

Data Monitoring Committees in Clinical Trials of Disease Prevention  
Exponential clinical trials: Sequential comparison under asymmetric penalty  
Multi-treatment optimal response-adaptive designs for phase III clinical trials  
On the need to combine failure time endpoints and the principle of sequentially adaptive designs for facilitating clinical cancer treatment trials in the future  
Phase I Profile Monitoring for Binary Response  
Statistical considerations to identify appropriate historical controls for rare disease therapies using information generated from the peer-reviewed scientific literature

### CPM 22 **Health statistics**

An Approach to Understand the Determinants of Unwanted Births in India - A Case Control Study  
Developing 'Rational Service Areas' to Assess the Adequacy of Primary Care Capacity





Reproductive health and Quality of life - Environmental linkages

Tobacco Use during Pregnancy: An Investigation from a National Household Survey

User needs for statistical information systems

Women's Employment Status and Postnatal Care Utilisation in Ghana

#### **CPM 24 Health workforce inequalities**

Bed Occupancy and Man Power Statistics, A Case Study at Tamale Teaching Hospital

Factors influence on happiness of Human resource Boromrajachonani Bangkok College of Nursing, Thailand

Health workforce inequalities problems in public health of the Republic of Uzbekistan, way and measures of their decision

Health workforce inequality in post conflict situation 'a case of Northern Uganda'

Occupational accidents among Brazilian primary health care workers: sex and occupation inequalities

Principal Components Analysis and cluster analysis to characterise workforce attrition for policy development

#### **CPM 25 Health workforce issues**

Dynamic and efficient database structures for health workforce data in developing countries

How many, who and where? – Using multiple sources of information to estimate the health workforce in India

Inequality in Distribution of Continuing Professional Education Opportunities among Health Workers in Ghana



Measuring regional health workforce inequalities

The Health Workforce Inadequacy in Georgia: the need to foster professional interaction

### **CPM 26 Aspects of National Statistical Systems**

Analysis of Statistical Managing Mechanism in China

Global Network towards developing the Official Statistics

Modifications récentes de la loi statistique en France - Recent Modifications of the French Statistical Law

New Statistical System for Official Statistics in Japan

Studies on the Making of China's Development Index

Toning up the Statistical System in India

### **CPM 27 Utilisation of national statistics systems**

Caractérisation du secteur informel à partir des enquêtes 123 des Etudes Ecoloc: le cas de Koudougou

La Representativite des Femmes dans les Organes Producteurs et Utilisateurs des Statistiques en Republique Democratique du Congo

Les Defis de L'utilisation des Statistiques Officielles en Republique Democratique du Congo

Les défis du système statistique national au Burkina Faso

Les Telecommunications au Benin: Bilan et Perspectives

Modélisation de l'offre des produits céréaliers au BURKINA FASO à partir de l'Enquête Permanente Agricole 2006-2007



### **CPM 28** Statistical methods in assessing development issues

A Research on Balancing Rural and Urban Development Based on Dual Sector Model  
Estimation of Development of Territories in Latvia

Role of statistics in planning and development in developing countries

The Contribution of Statistics to National Development: The Role of the Community

The Interrelation Between Population and Development in Uganda

Towards Measuring Progress of Societies: The Philline Happiness Index

### **CPM 29** New techniques in population and housing censuses

Geospatial Capture & Dissemination for Developing Countries

GPS and Digital Data Collection Technologies – Revolutionising the way surveys are being done at Statistics South Africa

Insights from the Moroccan 2004 census: optical data capture cost/benefit analysis and other issues

The emergence of GIS & GPS integrating with census data & its impact for the developing world

Use of GIS in demographic data analysis to basic population data of the village in Sudan (Sudan-census)

Web-based management of multi-channel, register-based census data collection



### CPM 30 Latent variable modeling

Approximating Hidden Semi-Markov Models by Hidden Markov Models

Hierarchical modeling of binary data with dependence between the design and outcome success probabilities

Item Response Theory and the development of a rating scale for nonverbal communication

Micro Evidence of Innovation on Competitiveness in 4 China Industrial Sectors: A SEM Model by Using Firm Data

Statistical Methods for Non-Linear Latent Variables Models: Issues of resource allocation for the development of human capital

The application of hidden Markov models to interval-censored time series

### CPM 31 Extreme value distributions

A Statistical Technique for Monoisotopic Peak Detection in a Mass Spectrum

Analysis of Wind-Generated Wave Fields from Light Transmission Data

Fitting the tail of multivariate extremal data: choice of a threshold radius vector when applying a Dirichlet mixture as the spectral density for measuring dependence

Kernel estimators for the second order parameter in extreme value statistics

On empirical estimation of ruin probabilities using integrated tail distributions

Spike train surrogates based on dithering in operational time



### CPM 32 **Mixed models**

A Generalized Linear Model for Gain Scores

Deletion diagnostics for the GLMM

On the Behavior of Marginal and Conditional Akaike Information Criteria in Linear Mixed Models

Selecting an Appropriate Transformation of Responses for Fitting a Linear or Additive Mixed Model

Simultaneous confidence bands for the mixed model representation of penalized spline estimators

The Semi-Mixed Effects Model Class

### CPM 33 **Spatial statistics**

A Simulation Study on Detection and Correction of Geometric Anisotropy for Geostatistical Data

Estimation of species richness applied to forest communities

Robust and Bayesian Methods in geostatistics: An application to precision farming

Some recent developments in Non-linear Spatio-Temporal Models

Space Pattern Analysis for Biological Data

The Use of Central Similarity Proximity Catch Digraphs for Testing Multivariate Spatial Patterns

### CPM 34 **Longitudinal data analysis**

A New Methodology for Mixed Models and Models for Longitudinal Data

Analysis of Continuous Multivariate Measurements under Informative Sampling with Application in Longitudinal Survey Data



Missing Data Problem in Longitudinal Addiction Research

Mixed Effects Models For Time Series Gene Expression Data

Sensitivity analysis of longitudinal data with non-random dropouts using semi-parametric models

Uniform Weak convergence of non randomly weighted poverty measures for longitudinal data

**CPM 35 Time series analysis**

Data revision and its impact on seasonal adjustment of survey data

Decomposing annual time series data: A case for Pacific Island Nations

On Spectral Analysis of Time Series in the presence of Missing Data

Temporal disaggregation of the GDP with an indicator-revisited

**CPM 37 Theoretical statistics**

Banard convex sets as convex geometries

Exceptional tensors with three slices and the positivity of its determinant polynomial

Hellinger distance estimation of general bilinear time series models

Methods for the assessment of the assumption of normality of data

Shadowing of Statistical Average in Nonhyperbolic Chaotic Dynamical Systems

**CPM 38 Multivariate analysis**

LR Test for Additional Information in Multivariate Growth Curve Model

Matrix derivative and integral



On A Class of Bivariate Weibull and Exponential Distributions

On summary statistics for functional data

On the variables selection and distributions in principal canonical correlation analysis

The asymptotic expansion of the distribution of the canonical correlations with monotone incomplete multivariate normal data

### **CPM 39**    **Demography - contraceptive use**

Adolescent sexual behavior in Uganda in the face of HIV/AIDS: Evidence from the African Youth Alliance (AYA) survey 2006

Correlates of Contraceptive use in Southern Africa: Analysis of Lesotho Demographic and Health Survey (LDHS), 2004

Determinants of Youth Sexual Behavior in Ethiopia: Evidence from EDHS 2005

Dynamics of Abstinence and Condom Use Among Unmarried Youth Aged 15-24 in Sub-Saharan Africa, Case Study of Mukono and Kabale districts in Uganda

The influence of friends on use and choice of contraception among women aged 25 -44 years in Uganda

The New Face of HIV: What New Information Needs to be Given to Young People

### **CPM 40**    **Demography - child health**

An Analysis of Under-Five Nutritional Status in Lesotho: The role of parity order and other socio-demographic characteristics

Exploring a link between child labour and scholastic progression/retardation statistics

Factors associated with the survival status of last-born children aged under-one



Living conditions of orphans in South Africa

Orphans and vulnerable children (OVC) in Uganda; are orphans more malnourished?

The Impact of Child Support Grant on childhood well-being

#### **CPM 42 Gender based violence**

Does Gender-Based Violence contribute to Under-five Mortality in Africa?

Measures Required for Reducing Domestic Violence Against Women in India: A Statistical Analysis

Sexual and Gender-based Violence Against Women in Conflict Areas in Uganda: A Case of Kitgum District

Spousal Sexual Violence, Sexual Behavior and Sexually Transmitted Diseases among Ever-Married Women in Uganda: An Analysis of UDHS 2006

#### **CPM 44 Issues affecting women in society**

Analyse spatiale des disparités de genre dans l'éducation: implications de politiques pour des reformes sensibles au genre

Assessment of the burden of health expenditure on the living conditions in Mali

Education et déperdition scolaire des adolescentes en RDC à partir de l'EDS 2007 : Analyse causale

Fecondite et Enjeux de la Croissance Rapide de la Population du Burkina Faso

Impact of the political crisis in demand of Primary education in Ivory Coast from 2000 to 2006

Some methodological issues about the new sample designs for French household surveys





#### **CPM 45**    **Statistics in achieving the MDGs**

Assessing the Progress of MDG#4- Infant Mortality in Uganda

Assessing the Role of Statistics in the Progress of Achieving the 4th Millennium Development Goal, Cutting Under 5 Mortality by Two Thirds Between 1990 and 2015: A Case Study of Uganda

Challenges in the production of statistical data in Africa

Maternal health delivery in Zimbabwe during the period 1988 – 2005/6: its implications to achieving the MDG (5)

The Burkina Faso Medium Term Expenditure Framework centered on the MDGs

#### **CPM 46**    **Development issues**

Developing a Framework and Indicators to Measure Sustainable Development: the Statistics New Zealand approach

How to give value added to official statistics – specific experiences of a developing country

New trends in sustainability indicators - evaluation of environmental, social and governance performance

Planning without Data and the Political Dimensions of Official Statistics in Developing Countries: A case study of Imo State in Nigeria

Towards Key Sustainable Development Indicators: the Swiss Approach

Tracking Progress Towards Statistical Capacity Building Efforts: The African Statistical Development Index



#### **CPM 47 Integrated statistical systems**

Creating common statistical taxonomies in Europe: taxonomy of the financial modules of Structural Business Statistics (SBS)

Measuring the Health of a Federal Statistical System: Some Perspectives

Moving towards an integrated sample design approach for social surveys conducted by Statistics New Zealand

Quality Reporting in the European Statistical System

Seeking Unorthodox Sources of Funding for Statistical Activities in Africa

Towards a Generic Statistical Business Process Model

#### **CPM 48 Poverty studies**

Assets and Capabilities Poverty in South Africa

Income Inequality, Macroeconomic Indicators, and the Missing Link

Index of individual human poverty (IIHP)

Profiling South African Middle Class Households: 1998-2006

The determinants of poverty in Cape Verde: an econometric approach

#### **CPM 49 Modeling environmental data**

Accounting for seasonality in water quality measurements

Application of X2 processes for detection of changes in seasonal behavior of temperature

Inference for stochastic rainfall-runoff models



## Modeling Rainfall Data

Statistical Trend Analysis for Water Accounting and Assessment in Australia: Current Practice and recommendations

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Contemporaneous Disaggregation and Reconciliation Using State Space Models

Fusion and inference from multiple data sources

Record Linkage in German Official Statistics

Statistical Data Management and Dissemination with PROGNOZ

### **CPM 53** Outliers

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Testing for Inliers

### **CPM 54** Sampling theory

Coverage of the H-T estimator for small size of samples

Multivariate Stratified Sample Design

Properties of the Negative Binomial Sampling Scheme

Ratio estimators of co-efficient of variation in finite population

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### **CPM 56 Access to statistical information**

Confidentiality and Data Access in the Web2.0 World

Dissemination of Survey Results to the Public

Methodological aspects assuring remote access to German business microdata

On the time series variation of microdata disclosure risk

The Use of Web Analytics at StatsOnline

Use of Time Series Analysis as a Alternative Methodology in Estimating Values of Missing Data

### **CPM 58 Statistical management of health information**

An Investigation into the Humanitarian Logistics emanating from the distribution of the HIV virus in Zimbabwe

Application of Intervention Analysis of Incidence Cases of HIV Infection in Ghana

Case-mix adjustment of Hospital Standardized Mortality ratio

Structured Expert Elicitation and its uses in Rare, and Emerging Disease Modeling and Public Health Risk Assessments

Time Series Model for Estimating the Death Rate of Emerging and Re-emerging Disease

### **CPM 61 Statistics in Finance**

A Hybrid Multi-Risk Model for Asset Pricing using Regression Analysis: A Case Study

Expectations of Crude Oil Prices and Exchange Rate: Some Considerations

Idiosyncratic and Systematic Risk in Emerging Capital Markets: BRIC Evidence



Interpreting the CPIS data on the distribution of foreign portfolio assets when cross-border positions in mutual funds are sizeable. Evidence for the main euro-area countries

Measuring Dependence in Financial Markets: an Overview

### **CPM 63 Financial instruments**

A Median rank approach for stock selection in Portfolio construction

Innovative Models for Reselling of Options

Pricing a European exchange option driven by Merton's jump diffusion model using the Esscher transform

Pricing European and American basket Options through a Monte Carlo Simulation Engine

Statistical Models for Pricing Weather Derivatives for Major South African Cities

### **CPM 64 Financial risk assessment**

A case study on using generalized additive models to fit credit rating scores

A New Exploring: Definition and Measurement of Financial Risk-Based on Wavelet Analysis

Evaluation of the effect of debit cards on cash demand by propensity score regressions in a principal stratification model

Optimal Threshold from ROC and CAP Curves

The present banking and financial crisis reflected in the financial order of the real world

The probability of default: a survival scoring model



### CPM 69 Road traffic issues

Mobile Traffic Forecasting using power transformation GARCH model

Spatial Risk Assessment in Traffic Safety on Urban Roads

The Dependence of Indoor PAH Concentration on Outdoor PAH and Traffic Volume in an Urban Residential Environment

Transport accident deaths in South Africa, 2001-2006

Volume indicators in the road freight industry in South Africa

### CPM 72 Processes and their properties

On some population-dependent branching processes

On the characterization of life distributions via percentile residual lifetimes

Some Characterizations of the univariate Distributions based on Truncated Moments of Order Statistics

Strong law of large numbers for associated random variables and demimartingales

Trend and Random Components of the Levy Fractional Brownian Motion

Uniform convergence of wavelet expansions of Gaussian random processes

### CPM 73 Space and time issues

Combining Distance and Angle Judgments for Inference from Spatial Memory

Filtering problems in spatio-temporal point processes

Inner View of Spatial Autoregression Residuals with LADS and Join-Count Statistics: The Binary Context



Spatio-Temporal Gaussian Models and their level crossings distributions

**CPM 81**    **Improving Official Statistics**

“Count Us In” - A Re-Look at the Measurement of Disability in the South African Census

Issues on confidence of Official Statistics

Living Standard Measurement Study, Serbia, 2007

Research on Risk of Statistic Survey

So you think you can SEIFA? Advocating the good use of socio-economic indexes for area Weighting Quality Dimensions

**CPM 83**    **Design and Analysis of Surveys**

Determinants of Foreign Direct Investment in Burkina Faso

Nonparametric Methods with Survey Data

Penalized Calibration in Survey Sampling

Randomizations In Lesotho

Selection of Arsenic-affected Water Zones - An Application of Adaptive Sampling Procedure

The Internet survey design

**CPM 84**    **Statistics in Economics Analysis**

A Comparison of Productivity Level by Industry between Japan and South Korea

A Stochastic Function of the South African Exports



Determinants of Fiscal Deficits in Uganda (1990-2006)

Potential GDP Estimating Methods based on DEA, Its Comparison and Application in China

Role of Statistics in Economic Analysis

The Effects of Household Financial and Real Wealth on Consumption: New Evidence from OECD Countries

### **CPM 85 Biological and Medical Statistics**

Biostatistical approaches in understanding Vitamin D Receptor gene polymorphism(s) and breast cancer risk in north Indian population

Estimation of parameters of logistic regression

Finding the role of proteins using a systems biology approach

ICA or PCA? Which one is More Efficient Method for Artifact Identification in MEG Recordings

Kill the Queens

Negative Binomial, Zero Hurdle/Inflated Negative Binomial Models for Describing the Axillary Lymph Node Involvement in Breast Cancer Patients and their Applications

### **CPM 87 Finance and Banking**

Income and Expenditure Distribution in South Africa: The 2005/06 Income and Expenditure Survey

Measuring Stock-Market Efficiency: Evidence from the Uganda Securities Exchange (USE)

OLS and Simultaneous Equation Methods For Simple Keynesian Model on the Ethiopian Macroeconomic Data (1953-1995 E.C.)





Public Expenditure Composition and Economic Growth The Portuguese Case  
The interaction between the banking sector and the macro economy in Croatia  
The transformation of the Italian banking system: The legislative autonomy and Sicily case study

### **CPM 88**    **Statistical Education 1**

(In) Formal aspects of Independent Events  
Abuse of Use and Teaching of Statistics in Eastern Nigeria  
Analysis of Statistics content and results of the first national examination based on the South African National Curriculum Statement (NCS)  
Estimation of the Sensitivity and Specificity of Qualitative Diagnostic Test Under Normal Assumption  
Gap Analysis of Employers Expectation and Work Readiness of Graduating Mathematical Sciences Students  
The Challenges Faced in Statistics Education in African Countries

### **CPM 89**    **Statistical Education 2**

Changes in the Media Habits of College Students during the Last Five Years and the Implications for Education  
Influential Mathematicians: Where do they Come from and Where do they Go?  
On Measures for Resolving Student's Misconceptions in Statistics in University of Lagos, Nigeria  
Populations, Samples, Measurement, Variables and Data: Pedagogically Undervalued Foundation Slabs of Statistical Castles



## Statistical Education of Medical Students in Pavlov State Medical University

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A Dairy Production Prediction System for the Milk Industry

Comparison of macro models for middle term forecasting

E-Government and new professional figures in UE

Forecasting Sugarcane Yield in Hayana (India) - A Time Series Analysis

Ripple Effects' and Forecasting Home Prices in Los Angeles, Las Vegas, and Phoenix

The Blessing of Dimensionality in Forecasting Real House Price Growth in the Nine Census Divisions of the US

### **CPM 93 Multivariate data**

A Multivariate Change Point Model for Change in Mean vector and/or Covariance Structure. Application to Detection of Isolated Systolic Hypertension

Canonical Correlation Analysis of Rural Life Insurance Demand

Fuzzy Principal Component Analysis for Interval-Valued Data Considering Classification Structure of Objects in High Dimensional Space

Multivariate discrete models for HIV, TB and STDs co-infection

Principal components for multivariate functional data

Statistical Approaches for Classifying and Defining Areas in South Africa as 'urban' or 'rural'



#### **CPM 94 Business and markets**

A Markovian Approach for Market Sentiments of DCI of Botswana Stock Exchange

A Study on Relation between Capacity Index and Capital Stock in Korea

An experiment on feedback wording in a Delphi study on professional figures' representation

Generalized Efficiency Measure through Directional Distance Formulation of Data Envelopment Analysis

Test of independence between variables in the Business survey for the services sector – Some empirical evidence from Croatia

The Determinants of Cote D'Ivoire's International Competitiveness

#### **CPM 95 Modeling**

Development and Implications of e-diary

Election night forecasting in South Africa: Will a model based on 2004 results work for 2009?

On Epidemiological Models Using Zero Inflated Distributions: A Case Study of Cross Sectional Data from a Dental Setup

The Coverage Probability of Confidence Regions after Model Selection

#### **CPM 96 Health and medicine**

An Extended Age Period Cohort Model for Analyzing Breast Cancer Deaths Including Two Types of Multiplicative Terms Based on Underlying Theories of Cancer Biology

Extensions to some Multidimensional Ranking Techniques

In Search of Well-Maintained Essential Human Resources for Health Data in Indonesia



Organization, quality and e-Health in EU Countries: a comparison

The cause of Multi drug Resistant (MDR) TB in South Africa

The Integrated Health Interview Survey: A New Source of Integrated Health Information on U.S. AIDS Knowledge, Attitudes, and Testing

#### **CPM 97    Multivariate methods**

A Comparative Study for a Bandwidth Matrix Choice for Bivariate Kernel Density Estimates

Confidence regions in three-dimensional shape analysis

Detecting spurious jumps in high frequency data

Mixtures of Weighted Distance-Based Models for Ranking Data

On definitions of mean reflection shape

#### **CPM 98    Sampling issues**

A quantitative approach to Internet addiction in Greek University Students

Application of Permanent Random Numbers Technology in Sampling Survey

Estimation and Inference in Structural VAR Models with a Nearly Stationary process

Network Sampling for a Hidden Population: Analysis of Students in Tertiary Institutions in Nigeria Engaged in Health Risk Behavior

Preliminary estimates for a sub-period of reference in a continuous survey

The estimation process for welfare measures under complex sampling



### CPM 99 Processes and time series

- A novel algorithm for time synchronization in sensor networks
- Asymptotic goodness-of-fit tests for point processes based on second-order product densities
- Connectivity Measures in the Frequency Domain: An Information Theoretic Interpretation
- Discrete Model for the Bombings in Region XII, Mindanao, Philippines
- Multipower Variation for Brownian Semistationary Processes
- Periodically correlated- Locally stationary Processes

### CPM 103 Issues of risk

- A Pearson Curve to Approximate the Age Distribution of HIV/AIDS Infection in Botswana
- A Study on Risk Factors Associated with Mental Illness in Eastern Delhi, India: A Logistic Regression Approach
- Characteristics of self-rated health indicators examined by nation-wide sample surveys in Japan
- Indirect Estimation of Operational Risk Indicators for SMEs via Data Mining from Basel II Point of View
- Laboratory and Non-laboratory Based Risk Prediction Models for Secondary Prevention of Cardiovascular Disease: The LIPID Study
- Targeting households at nutritional risk: a finite mixture model

### CPM 105 Economics

- Analysing income distributions in the case of grouped data: The South African Census 2001
- Analysis of the Determinants of the Informal Sector Production Units Profitability in Burkina Faso:



A Study Case from Ouagadougou

Duration dependence and frailties: parametric versus nonparametric estimators

Informal sector a manifestation of disorder: A resolution strategy

Interpreting the huge gap in the labour productivity between developed and developing countries statistically

The challenges of industry and occupation coding in household labour market surveys (HLMS)

#### **CPM 106 Official statistics**

Metadata Management in Statistics South Africa: A New Approach

Statistical methods to describe innovative professional profiles through required competencies

Statistics: Our Past, Present and Future

Statistics: our past, present and future

The unity of social statistics and mathematical statistics

#### **CPM 107 Households and employment**

An Investigation into the Causes of University Graduate Unemployment in Harare (2001 to 2006)

Characteristics of Workless Households in South Africa

Determinants of female labour force participation in South Africa in 2008

Linking and Adjusting the Levels of Survey of Total Employment and Earnings Series to the Quarterly Employment Statistics Series to Create Comparability

Measuring Decent Work



The profiling of poor households for targeted intervention utilising digital data collection technology

**CPM 108 Demographic themes**

How real are synthetic populations?

Population Projections for Rapidly Changing Korea

Statistical Human Resource Development: The Case of Bukidnon State University, Philippines

Study on Statistics of Minority Nationality Population in China

The socio-economic status of the South African elderly population: 2001-2007

**CPM 109 Survey quality**

A model for quality assurance in digital data collection for household surveys

Methodological Approaches to Estimate Quality of Services at the Municipal Level

Non response weighting adjustment using response estimated via kernel regression methods

Non-coverage in telephone surveys and mental health estimates in 19 European countries

Survey Research Ethics in International Projects: Challenges, Use, and Abuse

The dynamics of fieldwork: experiences during survey publicity

**CPM 110 Issues in Official Statistics**

Capacity Building in Official Statistics: The Challenges of Official Statisticians in South Africa

Census microdata processing via Internet, using the REDATAMWeb Server



Comparative Analysis of different sources of Revenue in local government budgets: a case study of Bugiri district in Uganda

Regional Integration – A Convergence Criteria Scrutiny: The Case of WAEMU

Statistics in Diversity management: Ethical Issues

The Causes and Consequences of the “Perceived” Non-Availability of Economic Statistics for Local Economic Development in South Africa: A KwaZulu-Natal Case Study

#### **CPM 111 Theory and practice**

A Flexible Software Reliability Model with Generalised Weibull Test Effort Function

An Alternative Approach to the Westlake Confidence Interval Method for Bioequivalence Trials

Application of the mixed effects regression models in measuring the carry-over effects of TV advertising

Hierarchical Distances in Corrosion Phases

Influence analysis in QTL detection

Profit Analysis Of Reliability Models With Inspection At Different levels Of Damages Subject To Weather Conditions and Degradation

#### **CPM 112 Finance**

A Dissimilarity Approach to Detecting Out-of-Language Documents

Dynamic micro-estimation of individual behaviours facing changes in population parameters: case study of income distributions and applications

Empirical Likelihood Ratio Test for Testing Mean of a Normal Distribution





Modelling the Convergence of Long-Term Bond Yields in the European Monetary Union  
Modified Time Series Paired Comparisons Model applied to exchange rate data  
Variance estimation of the Quintile Share Ratio

**CPM 113 Statistics for public good**

Measuring Human Development through Directional Distance Formulation of Data Envelopment Analysis

Paradigm Shift in Human Resource Induction in Public Systems of an Indian State

Performance Monitoring Plan (PMP) and Strategic Objective (SO) as tools for Improving Quality Service Delivery in Organisations

Simulation of the impact of the increase in food commodity prices on households in Burkina Faso

Some Interesting Patterns in the Adverse Event Reporting Systems of the food and Drug Administration

The Modeling of the Turkish Catastrophe Insurance Pool data between 2000-2008 by using Extreme Value Theory

**CPM 114 Software, e-statistics and consulting**

Ad Hoc Statistical Consulting within a large Research Organisation

Determining Optimum Strata Boundaries for Skewed Population

Effectiveness of filter trading as an intraday trading rule

GenStat Discovery, free sophisticated first world menu-driven analysis tools available to the developing world, and in particular, Africa



Implementing the Probability Density Function Calculation of the Stable Paretian Distribution in R  
Intensity Estimation of S-shaped Software Reliability Growth Models

**CPM 116 Non and semiparametrics**

Detecting Semi-Parametric Changes of General Casual Models

Discrete-Time Scale Invariant Markov Processes

Distributions of LULU smoothers on multi-dimensional arrays

Functional instrumental regression

Parameter estimation and Iterative Algorithms in intraclass model

Reparametrization of the Least Favorable Submodel in Semi-Parametric Multi-Sample Models

**CPM 117 Official statistics in Africa**

Analysis of the Instability of International Raw Material Prices on Economic Growth: A Case of Cote D'Ivoire

Impact of Fiscal Policy in Economic Activity in Core D'Ivoire

Measurement of Clothing in the CPI

Public expenditure's sector-based breakdown and economic growth in Ivory Coast

Tax Pressure Determinants in Cote D'Ivoire



## CPM 118 Social Statistics 2

### Factors associated with women unemployment in South Africa

Is there a mortality differential by marital status among women in South Africa? A study on a rural sub-district of Mpumalanga province in the north-east South Africa

Sample Design for the South African Labour Force Survey

Statistical Data Management and Dissemination with PROGNOZ

Using a multi-purpose household sample survey to investigate tobacco smoking – the Brazilian case

## CPM 119 Miscellaneous Applications

A Statistical Study of Air Pollutants in Iran

Factor Analysis of the Metabolic Syndrome identifies two Factors with Different Survival Patterns in the Elderly

Performance of the empirical Bayes estimator for the difference of fixed parameters

Price Monitoring Survey by Bank Indonesia

Synchronized Rebasings of Price Indices in the Philippines

Use of classification for determining grammatical case in linguistics