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दिल्ली विश्वविद्यालय / University of Delhi
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Customer Orientation and Loyalty: Opinionistic Survey of Executives

*Dr. Kanwal Jeet Singh

Abstract

The most important objective of business organization in modern era is to satisfy the customers. Therefore, all the activities of each and every department must be customer oriented. Once the customers are satisfied from a particular product or service, they become loyal to that particular brand. The present study proposes to assess the ways used by general insurance companies to achieve customer orientation and importance given to various factors to build customer loyalty. The statistical 't' test was employed on the responses of respondents, which included the opinions of executives with a well-structured questionnaire. The result of the study suggests that the customers' database, contact with customer and management of process to deliver services play an important role for customer orientation & complaint handling and clear point contact are the most important factors to build customer loyalty.

Keywords: Customer Loyalty, Customer Orientation and Customer Satisfaction

*Assistant Professor, Department of Commerce, Ramanujan College, Email: kanwaljeet89@gmail.com

Performance Appraisal of the Jogindra Central Co-operative Bank Limited of Himachal Pradesh

*Dr. Mohinder Paul

Abstract

Cooperatives play a significant role in the institutional credit structure. Co-operative credit institutions spread all over India and providing their services at the grass root level. District Central Co-operative Banks finance to the Primary Societies affiliated to them. They also supervise and guide the functioning of the member societies at the district level. Since District Central Co-operative Banks are the important segment of Cooperative credit system and also it is important to know the functioning of these banks. The purpose of this paper is to study the growth and performance of the Jogindra Central Co-operative Bank Limited functioning in the state of Himachal Pradesh. The study is based on secondary data drawn from the annual reports of Jogindra Central Co-operative Bank Limited.

Keywords: District Central Co-operative Bank; The Jogindra Central Co-operative Bank Limited Bank Limited

* Assistant Professor, Department of Commerce, Ramanujan College, Email: paulmhndr@gmail.com

Cashless Economy: Opportunities and Challenges in India

*Ms. Archana Chauhan

Abstract

India's black money, estimated by the World Bank in 2010 was about one fifth of official GDP. To curb the shadow economy, corruption and to push the country towards more transparent system, Indian government opted for demonetization and cashless economy drive. Is a country like India having banking penetration of just 53% (2014) and internet penetration of 34%, be able to go cashless. This paper deals with the concept of cashless system, various opportunities, challenges and problems of being cashless. This paper also suggests some recommendations for smooth implementation of cashless system and how this transformation will contribute to India in future. The objective of the paper is to observe the potentialities of a cashless economy, challenges faced and to suggest various ways to ease this process.

Keywords: Demonetization, Financial Inclusion, Cashless

* Assistant Professor, Department of Commerce, Ramanujan College, University of Delhi, Email: archu_jubilee@yahoo.co.in

Awareness of Consumer Rights: A Comparative Study

***Dr. Kanwal Jeet Singh**
****Dr. Minakshi Lehkar**
***** Ms. Suchi Patti**

Abstract

This study compares the awareness of consumer rights in a metropolitan city as against remote areas. The primary data has been analysed to examine the impact of geographical location and occupation on customer awareness.

The study covers five factors, i.e., Cash Memo, MRP, Standardization Mark, Expiry Date and Quantity Check, which were considered by the consumers while purchasing the goods or services. Awareness of consumer rights - to be informed, to choose, to safety, to be heard, to seek redress and to consumer education are examined under the study. Furthermore, five modes of generating consumer awareness are considered, i.e., Govt. advertising campaigns, NGO's, consumer organisations, workshops and public gatherings. The research was conducted through a survey of respondents using a structured questionnaire. The study points to the pressing need for empowerment of the rural consumer.

Keywords: Consumer Rights, Consumer Awareness, Consumer Organisations

*Assistant Professor, Department of Commerce, Ramanujan College, Email: kanwaljeet89@gmail.com

**Assistant Professor, Department of English, Ramanujan College, University of Delhi, Email: minakshilahkar@gmail.com

***Assistant Professor, Department of Commerce, Ramanujan College, University of Delhi, Email: suchipatti@gmail.com

Relationship Between Indian Banking Sector and Indian Stock Market- An Empirical Study

Ms Aanchal Singh*

ABSTRACT

Undoubtedly, it can be said that banking sector is one of the rapidly rising sectors among all the sectors in an economy with respect to today's era. Therefore, in this study, the relationship between some Banks and Stock Market is analyzed with respect to India. The study attempts to answer one critical question i.e. whether the development in banks and stock markets are positively related in India or not? and what is the cause and effect relationship between both? For the purpose of analysis, stock prices are taken from the official website of National Stock Exchange (NSE). Nifty 50 is taken as the measure of stock market indices and Nifty Bank index is taken as a measure of the performance of banking sector. The period of analysis is from April 1st 2007 to April 31st 2018. Unit-root test and granger causality test are used in order to arrive at the conclusions. The empirical results show that the two variables are non-stationary in nature and there exists a negative relationship between banks and stock markets in India. The results further suggest that banking sector acts as one of the cause for the developments in Stock Market in India.

Keywords: Stock Index; Granger-Causality Test; Unit-Root Test; Co-Integration Test; Nifty 50; Nifty Bank.

* Assistant Professor[1] and Research Scholar[2], 1. Department of Commerce, Ramanujan College, University of Delhi, Kalkaji, New Delhi. 2.University School of Management, Kurukshetra University, Kurukshetra, Haryana, India
E-mail: singhaanchal500@gmail.com

Testing the Applicability of CAPM in Selected Indian Industries

*Ms. Aanchal Singh

Abstract

The current study deals with the validity of Capital Asset Pricing Model in selected industries of India. The CAPM is being tested using Regression analysis with the help of Eviews 9.0 in seven industries for a period of 16 years ranging from January 2000 to April 2016 using monthly stock indices from BSE. The results prove that the model is applicable in many of the industries of Indian Stock Market for the period studied.

Keywords: Capital Asset Pricing Model, Stock Market, Stock Indices, BSE

*Assistant Professor, Ramanujan College, University of Delhi

Research Scholar, University School of Management, Kurukshetra University. E-mail: singhaanchal500@gmail.com

Earnings Persistence and Business Strategies: An Indian Analysis

*Dr. S P Aggarwal
**Dr. Sunita Gupta
***Ms. Anshika Agarwal

Abstract

Earnings of the firm are a vital tool for the evaluation of company's performance. Stakeholders as well as shareholders take decisions after analysing earnings and its growth prospects. This brings the concept of earnings persistence. If earnings are not steady, the returns of the firm in the future will decline and stakeholders as well as shareholders will lose out their money. This paper captures the earnings persistence of firms in India. This paper also captures the various business strategies adopted by firms to enhance their earnings. On the basis of various strategies, firms are classified into four groups. This paper has applied panel regression methodology.

Keywords: Earnings Persistence, Operating Earnings, Non-Operating Earnings, Panel Data

* Principal, Ramanujan College, University of Delhi. Email: spa15_dbce@yahoo.com
** Associate Professor, Kamala Nehru College, University of Delhi. Email: sunitagupta.knc@gmail.com
*** Assistant Professor, Department of Commerce, Ramanujan College, Email: agarwalanshika24@gmail.com (Corresponding Author).

Interest Rate Volatility and Stock Returns: A GARCH (1,1) Model

*Dr. K. Latha
**Dr. Sunita Gupta
***Dr. Renu Ghosh

Abstract

The present study attempts to examine the dual impact of changes in interest rate and interest rate volatility on the mean and variance of portfolio stock returns. The study period is from 1st April 1996 to 30th August 2014 covering a total period of approximately 18 years. Sample used in the study consist of portfolio of financial and non-financial firms listed in the S& P CNX 500 equity index. The effect of interest rate changes and volatility on distribution of stock returns is analyzed using the GARCH (1,1) model.

The effect of interest rate changes is found to be higher for financial firms as compared to non-financial firms. Interest rate volatility is found to be the significant factor affecting mean and variance of non-financial firms stock returns. Overall, the effect of interest rate volatility on stock returns and conditional stock returns volatility is evident from the results. If interest rate becomes more volatile it would also increase the volatility of conditional stock returns. When the interest rate volatility is included in the variance equation it is found that in case of those firm's where interest rate sensitivity coefficient is not significant, coefficient of interest rate volatility is significant implying that if changes in interest rate are small then these firm's are able to hedge themselves but if volatility of interest rate increases beyond a limit, it would also make the conditional returns of these firms' more volatile.

Keywords: Stock returns, Interest rate, GARCH (1,1), Financial Sector and Non-Financial Sector

*Associate Professor, Department of Commerce, Ramanujan College, University of Delhi, Email: dr_k_latha@yahoo.co.in

**Associate Professor, Department of Commerce, Kamala Nehru College, University of Delhi, Email: sunitagupta.knc@gmail.com

***Assistant Professor, Department of Commerce, Rajdhani College, University of Delhi, Email: renu_20092009@yahoo.co.in (Corresponding Author)

Student Engagement: A Study of Ramanujan College

*Dr. Vibhash Kumar
**Ms. Deepali Arora

Abstract

"Student Engagement" has become a subject of importance and discussion in the academic domain. Much of the academic fraternity today is worried because of the lackluster approach of the students - taking classroom or academic institution's learning as a burden and formality which must be completed! This research paper defines the level of student engagement in Ramanujan College, University of Delhi.

Online survey of the students of Ramanujan College was taken to infer the level of student engagement in terms of - Spirituality and Alignment, Psychological meaningfulness, and Student-teacher relationship. In addition, various questions which lead to student engagement were also included. The survey was circulated among the students of the college and 240 responses were received, out of which 221 responses were deemed fit for analysis.

According to the findings of the study, the students of the college are satisfied with the system of education; they also realize and appreciate the education they are getting. The students believe that they get full support from the college in terms of resources and the faculty members of the college are helpful and trustworthy. The study has also underpinned certain factors which lead to student engagement, such as institution's role in personality development of the student, teaching pedagogy, infrastructural facilities, systematic examination procedures, and extra and co-curricular activities.

This paper would help Ramanujan College in particular and other educational institutions in general to study and understand the concept of student engagement. The paper also recommends ways to improve the level of engagement among students. This study would give a broad view of the student engagement in the current system of education. Scale of 'Student Engagement' could be further tested in other samples.

The researchers have studied the level of engagement in a particular college of the University of Delhi. The results of this study may not be generalized for all the educational institutions.

Keywords: Student Engagement, Spirituality and Alignment, Student Engagement Scale

*Assistant Professor, Ramanujan College, E-mail - vibhashkr06@gmail.com;
** Senior- Associate, ASA & Associates LLP, E-mail- deepaliarors@gmail.com

प्रोफेसर–प्राचार्य / Professor-Principal
रामानुजन कॉलेज / Ramanujan College
दिल्ली विश्वविद्यालय / University of Delhi
कालकाजी, नई दिल्ली-110019 / Kalkaji, New Delhi-110019

Ramanujan College Kalkaji New Delhi 110019 (University of Delhi)

Performance of Nifty and ESG Index: A Relative Approach to Non-financial Reporting

* Mr. Prakhar Wadhwa

Abstract

This paper tries to compare the performance of NIFTY and ESG Index and examines if the reporting of non-financial information by the firms in ESG Index affects the performance of ESG Index as compared to NIFTY Index in the pre-crisis, crisis and post-crisis period. Comparison is done by combining both the indices and forming a new index for which performance has been measured for different time periods. The results show that NIFTY Index has performed better in pre-crisis period but ESG Index have performed better in crisis and post-crisis period.

Keywords: Non-financial information, Nifty Index, ESG Index, Price Growth

*Assistant Professor, Department of Commerce, Ramanujan College, University of Delhi, E-mail: prakhar.wadhwa@gmail.com

Distributional Channel Strategy: A Case Study of Mussoorie

*Dr. K. Latha
**Ms. Isha Gupta
***Mr. Rakesh Kumar Singh

Abstract

This report is an initiative to analyse the behaviour of consumer on various distribution channel. A channel of distribution serves as the connecting link between the producer and consumers. It creates time and place utilities by bridging the gap between the time and place of production and those of consumption. This report addresses two topics: (1) channel wise analysis of consumer behavior. (2) Product wise analysis of consumer behavior. It is based on a consumer-oriented study in order to consider the various aspects that affect any given distribution channel. It also helps in generation of new business ideas /opportunities regarding the channel of distribution.

Keywords: Distribution Channel, Consumer Behaviour, Brick and Mortar, Online Channels

*Associate Professor, Ramanujan College, E-mail: dr_k_latha@yahoo.co.in

**Assistant Professor, Ramanujan College, E-mail: isha.gupta106@gmail.com

*** Assistant Professor, Ramanujan College, E-mail: rakeshsingh803@gmail.com (Corresponding Author)

Awareness of Consumer Rights: A Comparative Study

*Dr. Kanwal Jeet Singh
**Dr. Minakshi Lehkar
*** Ms. Suchi Patti

Abstract

This study compares the awareness of consumer rights in a metropolitan city as against remote areas. The primary data has been analysed to examine the impact of geographical location and occupation on customer awareness.

The study covers five factors, i.e., Cash Memo, MRP, Standardization Mark, Expiry Date and Quantity Check, which were considered by the consumers while purchasing the goods or services. Awareness of consumer rights - to be informed, to choose, to safety, to be heard, to seek redress and to consumer education are examined under the study. Furthermore, five modes of generating consumer awareness are considered, i.e., Govt. advertising campaigns, NGO's, consumer organisations, workshops and public gatherings. The research was conducted through a survey of respondents using a structured questionnaire. The study points to the pressing need for empowerment of the rural consumer.

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*Assistant Professor, Department of Commerce, Ramanujan College, Email: kanwaljeet89@gmail.com

**Assistant Professor, Department of English, Ramanujan College, University of Delhi, Email: minakshilahkar@gmail.com

***Assistant Professor, Department of Commerce, Ramanujan College, University of Delhi, Email: suchipatti@gmail.com

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ORIGINAL PAPER

Iterated local transitivity model for signed social networks

Deepa Sinha[1] · **Deepakshi Sharma**[1]

Received: 21 November 2016 / Revised: 9 March 2017 / Accepted: 19 June 2017

Abstract In this paper, we generalize the iterated local transitivity (ILT) model for online social networks for signed networks. Signed networks focus on the type of relations (friendship or enmity) between the vertices (members of online social networks). The ILT model for signed networks provide an insight into how networks react to the addition of clone vertex. In this model, at each time step t and for already existing vertex x, a new vertex (clone) x' is added which joins to x and neighbors of x. The sign of new edge yx', $y \in N[x]$ neighborhood of x is defined by calculating the number of positive and negative neighbors of x. We also discuss properties such as balance and clusterability, sign-compatibility and C-sign-compatibility.

Keywords Social network · Signed social network · Local transitivity model · Marked signed graph · Neighborhood · Balance · Sign-compatibility · Clusterability · Algorithm

Mathematics Subject Classification 05C22 · 05C76 · 05C85

1 Introduction

The study of *social networks* was initialized by social scientists and social psychologists, and it is the general belief that the term social networks was first coined by

✉ Deepa Sinha
deepa_sinha2001@yahoo.com

Deepakshi Sharma
deepakshi.sharma1990@gmail.com

[1] Department of Mathematics, South Asian University, Akbar Bhawan, Chanakyapuri, New Delhi 110021, India

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Transitivity Model on Signed Graphs

Deepa Sinha [1]

Department of Mathematics
South Asian University, Akbar Bhawan
Chanakyapuri, New Delhi-110021, India.

Deepakshi Sharma [2]

Department of Mathematics
South Asian University, Akbar Bhawan
Chanakyapuri, New Delhi-110021, India.

Abstract

In this paper, we generalize the already established iterated local transitivity model for online social networks in signed networks. In this model, at each time step t and for already existing vertex x, a new vertex(clone) x' is added which joins to the neighbors of x. The sign of new edge xx' is the marking on x. We also discuss the properties such as balance, clusterability, sign-compatibility and consistency. The signed networks focus on the type of relations (friendship and enmity) between the vertices(members of online social network). The ILT model for signed network gives an insight on how the network reacts to the addition of clone vertex. Also the properties like balance and clusterability helps establish a natural balance in society by providing a possible formation of group of vertices in society for a peaceful co-existence and smooth functioning of social system.

Keywords: social network, signed social network, local transitivity model, marked singed graph, neighborhood, balance, sign-compatibility, clusterability, algorithm.

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Signed Zero-Divisor Graph

Deepa Sinha [1] Deepakshi Sharma [2] Bableen Kaur [3]

Department of Mathematics
South Asian University
Akbar Bhawan, Chanakyapuri
New Delhi-110021, India

Abstract

Let R be a finite commutative ring with unity ($1 \neq 0$) and let $Z(R)^*$ be the set of non-zero zero-divisors of R. We associate a (simple) graph $\Gamma(R)$ to R with vertices as elements of R and for distinct x, $y \in R$, the vertices x and y are adjacent if and only if $xy = 0$. Further, its signed zero-divisor graph is an ordered pair $\Gamma_\Sigma(R) := (\Gamma(R), \sigma)$, where for an edge ab, $\sigma(ab)$ is '+' if $a \in Z(R)^*$ or $b \in Z(R)^*$ and '−' otherwise. This paper aims at gaining a deeper insight into signed zero-divisor graph by investigating properties like, balancing, clusterability, sign-compatibility and consistency.

Keywords: finite commutative ring, zero-divisors, signed graph, negation signed graph, balancing, clusterability, sign-compatible, consistent.

1 Introduction

The idea of a zero-divisor graph of a commutative ring R was introduced by I. Beck [1], where he was mainly interested in colorings of R. They let all

[1] Email: deepa_sinha2001@gmail.com
[2] Email: deepakshi.sharma1990@gmail.com
[3] Email: bableen1511@gmail.com

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Point-Set Domination in Graphs. VIII: Perfect and Efficient PSD Sets

Purnima Gupta[1], Alka[2(✉)], and Rajesh Singh[2]

[1] Department of Mathematics, Sri Venkateswara College, University of Delhi, New Delhi 110021, Delhi, India
purnimachandni1@gmail.com
[2] Department of Mathematics, University of Delhi, New Delhi 110007, Delhi, India
09alka01@gmail.com, singh_rajesh999@outlook.com

(Dedicated to Dr. B.D. Acharya on his 69^{th} birthday.)

Abstract. A perfect dominating set in a graph G is a dominating set D such that every vertex v in $V - D$ is adjacent to a unique vertex u in D. An efficient dominating set is a perfect dominating set D which is independent as well. A *point-set dominating set* (or, *psd*-set, in short) is a dominating set D for which every subset S of $V - D$ has a vertex $u \in D$ such that the induced subgraph $\langle S \cup \{u\}\rangle$ is connected. In this paper we determine necessary conditions for a graph to possess an efficient *psd*-set.

Keywords: Perfect dominating set · Efficient dominating set · Point-set dominating set

1 Introduction

For all terminology and notations in graph theory, we refer to West [12]. All graphs considered in this note are non-trivial simple graphs, in the sense that none of them contains a *self-loop* or a *multiple edge* and could be infinite unless mentioned otherwise.

Given any graph $G = (V, E)$, a subset D of V is called an *independent set* in G if no two vertices of D are adjacent in G, a *dominating set* if every vertex u of G is either in D or is adjacent to a vertex v in D, a *perfect dominating set* [6,7] (or, '*pd*-set' in short) if every vertex u of G is either in D or is adjacent to exactly one vertex v in D, an *efficient dominating set* [5] if it is a dominating set which is both independent and perfect; and a *point set dominating set* [1–4,10] (or '*psd*-set' in short) if for every subset S of $V - D$ there exists a vertex $u \in D$ such that the induced subgraph $\langle S \cup \{u\}\rangle$ is connected. For a detailed treatment

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S. Arumugam et al. (Eds.): ICTCSDM 2016, LNCS 10398, pp. 300–304, 2017.
DOI: 10.1007/978-3-319-64419-6_38

Graphoidal Length and Graphoidal Covering Number of a Graph

Purnima Gupta[1(✉)], Rajesh Singh[2], and S. Arumugam[3]

[1] Department of Mathematics, Sri Venkateswara College, University of Delhi, New Delhi 110021, Delhi, India
purnimachandni1@gmail.com
[2] Department of Mathematics, University of Delhi, New Delhi 110007, Delhi, India
singh_rajesh999@outlook.com
[3] Kalasalingam University, Anand Nagar, Krishnankoil 626126, Tamil Nadu, India
s.arumugam.klu@gmail.com

Abstract. Let $G = (V, E)$ be a finite graph. A graphoidal cover Ψ of G is a collection of paths (not necessary open) in G such that every vertex of G is an internal vertex of at most one path in Ψ and every edge of G is in exactly one path in Ψ. The graphoidal covering number η of G is the minimum cardinality of a graphoidal cover of G. The length $gl_\Psi(G)$ of a graphoidal cover Ψ of G is defined to be $\min\{l(P) : P \in \Psi\}$ where $l(P)$ is the length of the path P. The graphoidal length $gl(G)$ is defined to be $\max\{gl_\Psi(G) : \Psi$ is a graphoidal cover of $G\}$. In this paper we investigate the existence of graphs which admit a graphoidal cover Ψ with $|\Psi| = \eta(G)$ and $gl_\Psi(G) = gl(G)$.

Keywords: Graphoidal cover · Graphoidal length · Graphoidal covering number

1 Introduction

Throughout this paper we consider only finite, undirected graphs with neither loops nor multiple edges. For graph theoretic terminology we refer to Chartrand and Lesniak [13].

A *graphoidal cover* of a graph G is a collection Ψ of non-trivial paths in G are not necessarily open, such that every vertex of G is an internal vertex of at most one path in Ψ and every edge of G is in exactly one path in Ψ.

The concept of graphoidal covers [4] was introduced by Acharya and Sampathkumar as a close variant of another emerging discrete structure called *semigraphs* [18]. Many interesting notions based on the concept of graphoidal covers such as graphoidal covering number [4], graphoidal labeling [17], graphoidal

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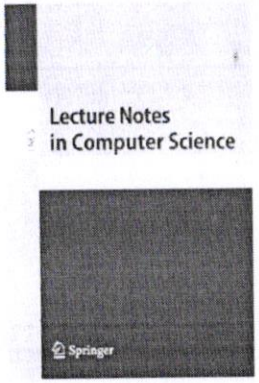

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On Graphs Whose Graphoidal Length Is Half of Its Size

Purnima Gupta[1] and Rajesh Singh[2(✉)]

[1] Department of Mathematics, Sri Venkateswara College, University of Delhi, New Delhi 110021, Delhi, India
purnimachandni1@gmail.com

[2] Department of Mathematics, University of Delhi, New Delhi 110007, Delhi, India
singh_rajesh999@outlook.com

Abstract. Let $G = (V, E)$ be a finite graph. A graphoidal cover Ψ of G is a collection of paths (not necessary open) in G such that every vertex of G is an internal vertex of at most one path in Ψ and every edge of G is in exactly one path in Ψ. The graphoidal covering number η of G is the minimum cardinality of a graphoidal cover of G. The length $gl_\Psi(G)$ of a graphoidal cover Ψ of G is defined to be $\min\{l(P) : P \in \Psi\}$ where $l(P)$ is the length of the path P. The graphoidal length $gl(G)$ is defined to be $\max\{gl_\Psi(G) : \Psi$ is a graphoidal cover of $G\}$. For any graph G of size q, $gl(G) \leq q$ and this bound is attained if and only if G is either a path or a cycle. Further if $gl(G) \neq q$, then $gl(G) \leq \lfloor q/2 \rfloor$. In this paper we characterize graphs having graphoidal length $\lfloor q/2 \rfloor$. In the process we obtain that there are exactly 12 non homomorphic graphs having graphoidal covering number two.

Keywords: Graphoidal length · Graphoidal covering number · Graphoidal cover

1 Introduction

We consider finite, connected, undirected graphs without loops and multiple edges. The order and size of a graph G are denoted by p and q respectively. For terminology we refer to Chartrand and Lesniak [12], unless explicitly defined otherwise.

A *graphoidal cover* of a graph G is a collection Ψ of non-trivial paths in G are not necessarily open, such that every vertex of G is an internal vertex of at most one path in Ψ and every edge of G is in exactly one path in Ψ.

The set E of its edges is a graphoidal cover of G, called trivial graphoidal cover of G. A graphoidal cover Ψ of a graph containing at least one path of length

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TRULY NONTRIVIAL GRAPHOIDAL COVERS-I

PURNIMA GUPTA AND RAJESH SINGH

ABSTRACT. A *graphoidal cover* of a graph G is a collection Ψ of nontrivial paths (not necessarily open) in G such that every vertex of G is an internal vertex of at most one path in Ψ and every edge of G is in exactly one path in Ψ. A graphoidal cover Ψ of G is a *truly nontrivial graphoidal cover (TNT graphoidal cover)* of G if every path in Ψ has length greater than 1. A graph G is a *truly nontrivial graph* (*TNT graph*) if it possesses a TNT graphoidal cover. In this paper we intend to answer the fundamental question "Does every graph possess a TNT graphoidal cover ?", raised by Fred Roberts in first author's thesis report. After exhibiting the fact that not every graph possesses a TNT graphoidal cover, we could obtain some forbidden structures for a graph to be a TNT graph. And in the quest to find graphs having a TNT graphoidal cover, we could identify certain classes of trees and unicyclic graphs which are TNT graphs.

2010 MATHEMATICS SUBJECT CLASSIFICATION: 05C70, 20D60.

KEYWORDS AND PHRASES: Graphoidal Cover, Graphoidally Covered Graph, Truly Nontrivial Graphoidal Cover.

1. INTRODUCTION

Throughout we consider only nontrivial, finite undirected graphs without loops and multiple edges. For graph theoretic terminology we refer to West [19].

A *graphoidal cover* of a graph G is a collection Ψ of nontrivial paths (not necessarily open) in G called Ψ-edges, such that **(GC1)** every vertex of G is an internal vertex of at most one path in Ψ and **(GC2)** every edge of G is in exactly one path in Ψ. The set of all graphoidal covers of a graph G is denoted by $\mathcal{G}_G$ and for a given $\Psi \in \mathcal{G}_G$, the ordered pair (G, Ψ) is called a *graphoidally covered graph*. The set $E := E(G)$ of edges of any graph G is trivially a graphoidal cover of G.

The concept of graphoidal covers [4] was first introduced by Acharya and Sampathkumar in 1987 as a close variant of another emerging discrete structure called *semigraphs* [17]. Many interesting notions based on the concept of graphoidal covers like graphoidal covering number [4], graphoidal labeling [16], graphoidal signed graphs [15] etc were introduced and are being studied extensively. In particular, notion of graphoidal covering number of a graph has attracted many researchers and numerous work is present in

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Domination in graphoidally covered graphs: Least-kernel graphoidal graphs-II

Purnima Gupta[a], Rajesh Singh[b,*]

[a] Department of Mathematics, Sri Venkateswara College, University of Delhi, Delhi, India
[b] Department of Mathematics, University of Delhi, Delhi, India

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Dedicated to sweet memories of Dr. B.D Acharya

Abstract

Given a graph $G = (V, E)$, not necessarily finite, a *graphoidal cover* of G means a collection Ψ of non-trivial paths in G called Ψ-edges, which are not necessarily open (not necessarily finite), such that every vertex of G is an internal vertex of at most one path in Ψ and every edge of G is in exactly one path in Ψ. The set of all graphoidal covers of a graph $G = (V, E)$ is denoted by $\mathcal{G}_G$ and for a given $\Psi \in \mathcal{G}_G$ the ordered pair (G, Ψ) is called a graphoidally covered graph.

Two vertices u and v of G are *Ψ-adjacent* if they are the ends of an open Ψ-edge. A set D of vertices in (G, Ψ) is *Ψ-independent* if no two vertices in D are Ψ-adjacent and is said to be *Ψ-dominating* if every vertex of G is either in D or is Ψ-adjacent to a vertex in D; G is $\gamma_\Psi(G)$-definable ($\gamma_{i\,\Psi}(G)$-definable) if (G, Ψ) has a finite Ψ-dominating (Ψ-independent Ψ-dominating) set. Clearly, if G is $\gamma_{i\,\Psi}(G)$-definable, then G is $\gamma_\Psi(G)$-definable and $\gamma_\Psi(G) \leq \gamma_{i\,\Psi}(G)$. Further if for any graphoidal cover Ψ of G such that $\gamma_\Psi(G) = \gamma_{i\,\Psi}(G)$ then we call Ψ as a **least-kernel graphoidal cover** of G (in short, an **LKG cover** of G). A graph is said to be a **least kernel graphoidal graph** or simply an **LKG graph** if it possesses an LKG cover.

This paper is based on a conjecture by Dr. B.D Acharya, "Every graph possesses an LKG cover". After finding an example of a graph which does not possess an LKG cover, we obtain a necessary condition in the form of forbidden subgraph for a graph to be a least kernel graphoidal graph. We further prove that the condition is sufficient for a block graph with a unique nontrivial block. Thereafter we identify certain classes of graphs in which every graph possesses an LKG cover. Moreover, following our surmise that every graph with $\Delta \leq 6$ possesses an LKG cover, we were able to show that every finite graph with $\Delta \leq 3$ is indeed an LKG graph.

Keywords: Domination; Graphoidal cover; Least-kernel graphoidal cover

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* Corresponding author.
E-mail addresses: purnimachandni1@gmail.com (P. Gupta), singh.rajesh9999@outlook.com (R. Singh).

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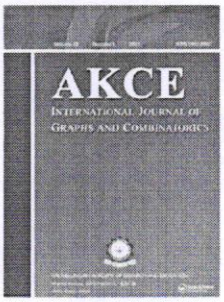

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Differential subordination and radius estimates for starlike functions associated with the Booth lemniscate

Nak Eun CHO[1], Sushil KUMAR[2], Virendra KUMAR[3,*], V. RAVICHANDRAN[3]

[1]Department of Applied Mathematics, Pukyong National University, Busan, South Korea
[2]Bharati Vidyapeeth's College of Engineering, Delhi, India
[3]Department of Mathematics, University of Delhi, Delhi, India

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Abstract: We obtain several inclusions between the class of functions with positive real part and the class of starlike univalent functions associated with the Booth lemniscate. These results are proved by applying the well-known theory of differential subordination developed by Miller and Mocanu and these inclusions give sufficient conditions for normalized analytic functions to belong to some subclasses of Ma–Minda starlike functions. In addition, by proving an associated technical lemma, we compute various radii constants such as the radius of starlikeness, radius of convexity, radius of starlikeness associated with the lemniscate of Bernoulli, and other radius estimates for functions in the class of functions associated with the Booth lemniscate. The results obtained are sharp.

Key words: Starlike function, convex function, Booth lemniscate, radius estimate, differential subordination

1. Introduction

Let $\mathcal{A}_n$ denote the general class of the normalized analytic functions defined on the unit disk $\mathbb{D} := \{z \in \mathbb{C} : |z| < 1\}$ and having the Taylor series expansion given by $f(z) = z + a_{n+1}z^{n+1} + a_{n+2}z^{n+2} + \cdots$. In particular, let $\mathcal{A} := \mathcal{A}_1$. The subclass of $\mathcal{A}$ containing univalent functions is denoted by $\mathcal{S}$. For the analytic functions f and g defined on $\mathbb{D}$, we say that f is subordinate to g, written as $f \prec g$, if there is an analytic function w defined on $\mathbb{D}$ with $w(0) = 0$ and $|w(z)| < 1$ such that $f(z) = g(w(z))$ for all $z \in \mathbb{D}$. In particular, if the function g is univalent, then $f \prec g$ if and only if $f(0) = g(0)$ and $f(\mathbb{D}) \subseteq g(\mathbb{D})$. Among the several subclasses of $\mathcal{S}$, the classes of starlike and convex functions are most studied. Various classes of starlike and convex functions are characterized by the quantities $zf'(z)/f(z)$ and $1+zf''(z)/f'(z)$, respectively, by using the concept of subordination and the Hadamard product. The class $\mathcal{S}_g^*(\varphi)$ of all $f \in \mathcal{A}$ satisfying $z(f(z) * g(z))'/(f(z) * g(z)) \prec \varphi(z)$, where $\varphi(z)$ is a convex function and $g(z)$ is a fixed function in $\mathcal{A}$, was studied by Shanmugam [31]. For the special case $g(z) = z/(1-z)^\alpha$, the class $\mathcal{S}_g^*(\varphi)$ was studied in [23]. For the choice of function $g(z) = z/(1-z), z/(1-z)^2$ and analytic function φ with the positive real part mapping $\mathbb{D}$ onto a domain symmetric with respect to real axis and starlike with respect to $\varphi(0) = 1$ and $\varphi'(0) > 0$, the class $\mathcal{S}_g^*(\varphi)$ reduces to classes $\mathcal{S}^*(\varphi)$ and $\mathcal{K}(\varphi)$, respectively, studied by Ma and Minda [17]. They proved distortion, covering, and growth theorems. For special choices of the function φ, the classes $\mathcal{S}^*(\varphi)$ and $\mathcal{K}(\varphi)$ reduce to many well-known classes. For $\varphi(z) = (1+Az)/(1+Bz)$ $(-1 \le B < A \le 1)$, these classes reduce respectively

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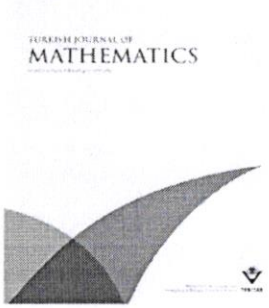

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ORIGINAL PAPER

Radius Estimates and Convolution Properties for Analytic Functions

Virendra Kumar[1] · Nak Eun Cho[1] · Oh Sang Kwon[2] · Young Jae Sim[2]

Received: 26 May 2018 / Accepted: 22 June 2018 / Published online: 6 July 2018

Abstract

For given real numbers α and β ($\alpha < 1 < \beta$), let $\mathcal{P}(\alpha, \beta)$ be the class of analytic functions p with $p(0) = 1$ satisfying $\alpha < \Re\{p(z)\} < \beta$ in the open unit disk $\mathbb{D} := \{z \in \mathbb{C} : |z| < 1\}$. For $|z| = r < 1$, the lower and upper bounds on the real and imaginary parts for the analytic functions $p \in \mathcal{P}(\alpha, \beta)$ are investigated. For such functions, the radii are found so that $p(z) + zp'(z)/p(z)$ and $p(z) + zp'(z)$ belong to the class $\mathcal{P}(\alpha, \beta)$. With the help of these estimates, the radius estimates of strongly, parabolic and lemniscate starlikeness for starlike functions associated with the vertical strip domain under consideration are obtained. Further, convolution and inclusion properties are also investigated. The results investigated in this paper extend and improve several existing results for starlike functions related to vertical strip domains.

Keywords Analytic functions · Starlike functions · Vertical strip domains · Radius estimates · Convolution properties · Subordination

Mathematics Subject Classification 30C45 · 30C80

Communicated by Ali Abkar.

✉ Young Jae Sim
yjsim@ks.ac.kr

Virendra Kumar
vktmaths@yahoo.in

Nak Eun Cho
necho@pknu.ac.kr

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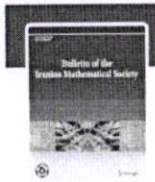
oskwon@ks.ac.kr

1 Department of Applied Mathematics, Pukyong National University, Busan 48513, South Korea

2 Department of Mathematics, Kyungsung University, Busan 48434, South Korea



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Sharp Coefficient Bounds for the Quotient of Analytic Functions

Ji Hyang Park, Virendra Kumar and Nak Eun Cho*
Department of Applied Mathematics, Pukyong National University, Busan 48513, Republic of Korea
e-mail : jihyang1022@naver.com, vktmaths@yahoo.in *and* necho@pknu.ac.kr

Abstract. We derive sharp upper bound on the initial coefficients and Hankel determinants for normalized analytic functions belonging to a class, introduced by Silverman, defined in terms of ratio of analytic representations of convex and starlike functions. A conjecture related to the coefficients for functions in this class is posed and verified for the first five coefficients.

1. Introduction

Let $\mathcal{S}$ be the class of univalent analytic functions of the form

$$f(z) = z + a_2 z^2 + a_3 z^3 + \cdots \tag{1.1}$$

defined in the unit disk $\mathbb{D} := \{z \in \mathbb{C} : |z| < 1\}$. It is well-known that the coefficient of the functions in the class $\mathcal{S}$ satisfy $|a_n| \leq n$. This result was put before, as a conjecture, by Bieberbach in 1916, and it took around 68 year to prove and was finally affirmatively settled by de Branges. In those 68 years many researchers tried to prove or disprove it which lead to explore many subclasses of the class $\mathcal{S}$. The class $\mathcal{S}^*$ of starlike functions is a collection of functions $f \in \mathcal{S}$ for which $\mathrm{Re}(zf'(z)/f(z)) > 0$ for all $z \in \mathbb{D}$. However, the class $\mathcal{K}$ of convex functions is a collection of all those functions $f \in \mathcal{S}$ for which $\mathrm{Re}(1 + zf''(z)/f'(z)) > 0$ for all $z \in \mathbb{D}$. These subclasses are among the most studied subclasses of $\mathcal{S}$. In 1997, Silverman [18] investigated a class of normalised analytic functions involving an expression of the quotient of the analytic representations of convex and starlike

* Corresponding Author.
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Gabriella D'Este, Derya Keskİn Tütüncü

Kyungpook Mathematical Journal 2021; 61: 213-222

In this paper we investigate the Baer-Kaplansky theorem for module classes on algebras of finite representation types over a field. To do this we construct finite dimensional quiver algebras over any field

Key Words: Baer-Kaplansky theorem, quivers and representations

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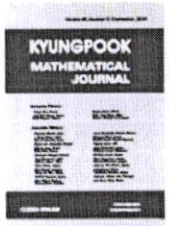

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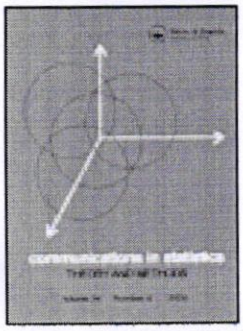

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Shashi Bhushan & Abhay Pratap Pandey

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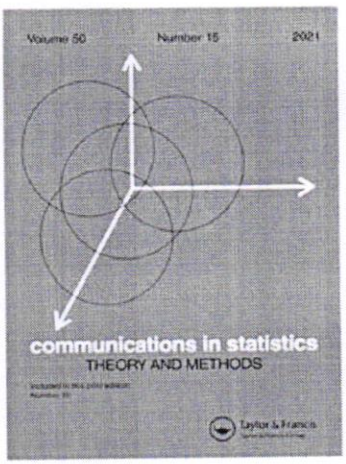

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Comparative evaluation of GeneXpert MTB/RIF and multiplex PCR targeting *mpb64* and *IS6110* for the diagnosis of pleural TB

Suman Sharma[1], Bhawna Dahiya[1], Vishnubhatla Sreenivas[2], Netrapal Singh[1], Ankush Raj[1], Abhishek Sheoran[3], Aparna Yadav[4], Krishna B Gupta[5] & Promod K Mehta*[,1]

[1]Centre for Biotechnology, Maharshi Dayanand University (MDU), Rohtak-124001 (Haryana), India

[2]Department of Biostatistics, All India Institute of Medical Sciences (AIIMS), New Delhi 110029, India

[3]Department of Statistics, Amity Institute of Applied Sciences, Amity University, Noida-201303, India

[4]Department of Microbiology, University of Health Sciences (UHS), Rohtak-124001, India

[5]Department of TB & Respiratory Medicine, UHS, Rohtak-124001, India

* Author for correspondence: Tel.: +91 989 650 4193; Fax: +91 126 227 4640; pkmehta3@hotmail.com

Aim: Diagnosis of pleural TB poses serious challenges due to paucibacillary nature of specimens and there is an urgent need to devise a reliable diagnostic test. **Methods:** We compared GeneXpert *Mycobacterium tuberculosis*/rifampin assay and the multiplex PCR (M-PCR) targeting *mpb64* (Rv1980c) and *IS6110* in pleural fluids (n = 78) of pleural TB patients and non-TB controls. **Results:** The sensitivities of 89.6 and 33.3%, and specificities of 96.7 and 100%, were observed with M-PCR and Xpert assay, respectively. **Conclusion:** M-PCR showed superiority over Xpert assay and may facilitate an efficient diagnosis of pleural TB.

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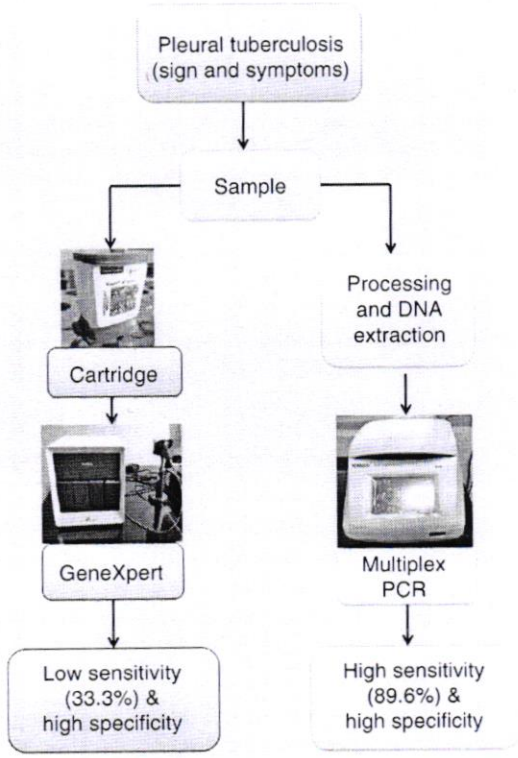

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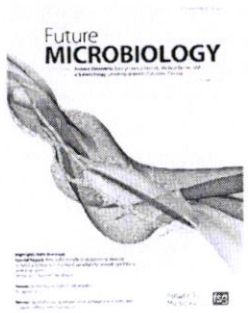

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CLASSICAL AND BAYESIAN ANALYSIS OF A TWO IDENTICAL UNIT STANDBY SYSTEM WITH FAULT DETECTION, MINOR AND MAJOR REPAIRS UNDER GEOMETRIC DISTRIBUTIONS

Rakesh Gupta, Alka Chaudhary[1], Suman Jaiswal* and Bhupendra Singh

Department of Statistics, C. C. S. University, Meerut - 250 004, India.
[1]Department of Statistics, Meerut College, Meerut - 250 001, India.
*Department of Statistics, Ramanujan College, Kalkaji, New Delhi - 110 019, India.
E-mail : jaiswalsuman85@gmail.com

Abstract : The paper deals with the cost-benefit and reliability analysis of a two-identical unit cold standby system, assuming that a failed unit enters into the fault detection to identify whether the failed unit needs minor or major repair with fixed known probabilities. A single repairman is always available with the system to detect the fault into the failed unit and for minor as well as major repairs. The failure time, fault detection time, major and minor repair time distributions are taken as geometric with different parameters. A Bayesian approach is also adopted to evaluate various measures of system effectiveness by taking different priors. In the end, the comparative conclusions are drawn to judge the performances of the Maximum Likelihood (ML) and Bayes methods of estimation.

Key words : Transition probabilities, Mean sojourn time, MTSF, Availability, Expected busy period of repairman, Net expected

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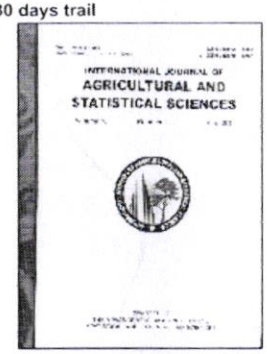

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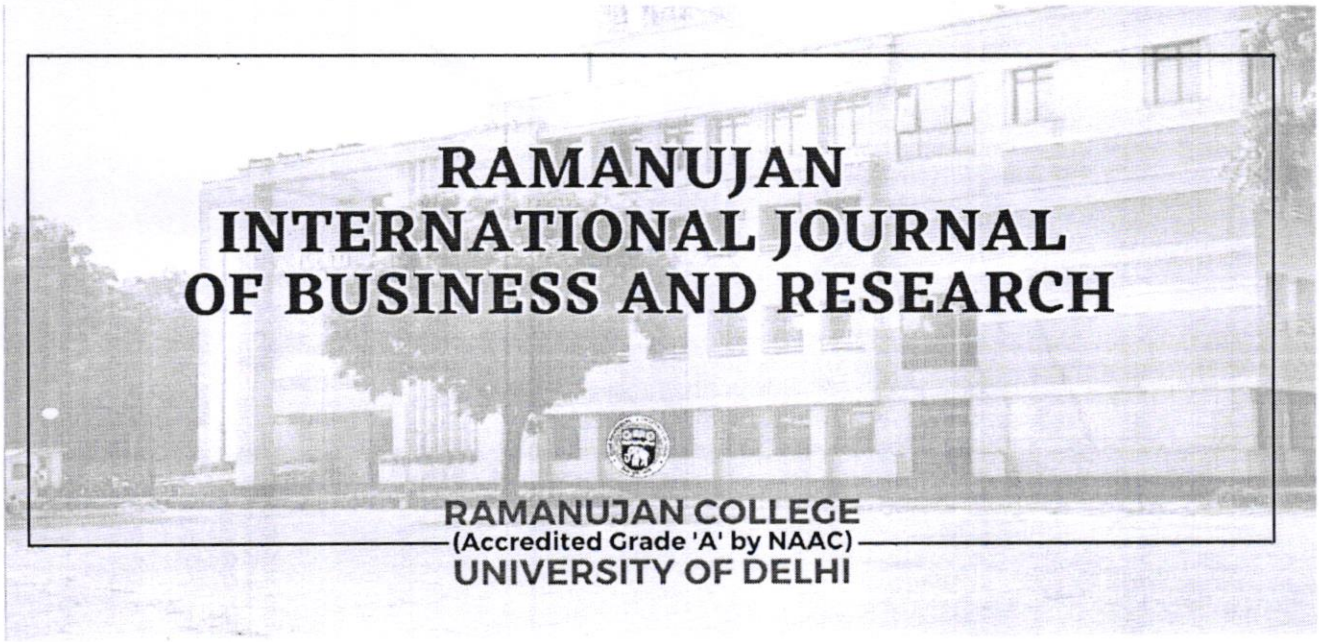

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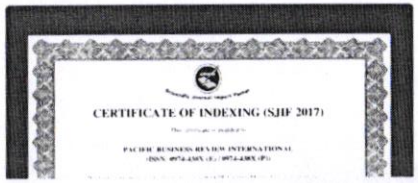

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INTERESTRATES AND STOCK MARKET IN INDIAN CONTEXT: AN ANALYSIS

AUTHOR

Ms. ANSHIKA AGARWAL

S.P.AGGARWAL,
Principal, Ramanujan College,
University of Delhi.

Assistant Professor,Ramanujan College ,Research Scholar
Department of Commerce,Delhi School of Economics
University of Delhi,India ,+919871373360
agarwalanshika24@gmail.com

ABSTRACT

In this paper, it is checked whether interest rates matter for stock markets or not by studying the nature of relationship and the causality between interest rates and stock market for the period ranging from January 2008 to December 2013 for Indian market. Augmented Dickey-Fuller Unit Root test is applied and it is found BSE 100 series and Call money rates series are non-stationary at level and at first difference these series are stationary. And then by applying Granger-Causality test, it is found that there is no causal relationship between interest rates and stock market in Indian context. They do not lead or lag each other. But, by applying Johansen co-integration test it is seen that interest rates and stock market move together in the long run and there is co-integration between them. The findings of this paper might help policy makers to change interest rates as part of monetary policy by considering its effects on stock prices.

Keywords: Interest Rate, Stock Market, Granger Causality, Johansen Co-integration.

JEL Classification: E43, E44, G10

1. INTRODUCTION

Stock market is one of the important barometers to assess the health of an economy. Any country's industry and commerce growth are

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Executive Summary

Before financial liberalization, interest rates were administered and exhibited near-zero volatility. The easing of financial repression in the 1990s generated experiences with interest rate volatility in India. Administrative restrictions on interest rates in India have been steadily eased since 1993. This has led to increased interest rate risk for financial firms. Most research studies have almost exclusively focused on the developed countries especially the banking sector of the United States. The present study attempts to examine the interest rate risk of non-banking financial institutions in India by using the methodology of panel regression and generalized autoregressive conditional heteroscedasticity (GARCH) (1, 1) model for the period from 1 April 1996 to 30 August 2014. The sample used in the study consists of all non-banking financial companies (NBFCs) listed in the S&P CNX 500 index which has continuous availability of share prices over the study period. The study also examines the impact of unanticipated changes in interest rate on stock returns of NBFCs. The Box–Jenkins methodology is applied to calculate unanticipated changes in interest rate variable, autoregressive integrated moving average (ARIMA) (24, 1, 0) model. The time series used in the present study is found to be stationary at the first logarithmic difference. Stock returns exhibit significant exposure with both market returns and interest rate changes. The interest rate sensitivity of large, medium, and small financial institutions is also found to be different. Estimation results for the variance equation in GARCH (1, 1) model suggest that the volatility for individual firm stock returns is time-variant. The ARCH and GARCH coefficients are found to be significant, providing evidence against using traditional model (ordinary least square (OLS)) that assumes time-invariant volatility. This implies that the market has a memory longer than one period and volatility is more sensitive to its own lagged values than it is to new surprises in the market. This study also investigates the possible determinants that account for cross-sectional variation in the interest rate sensitivity of NBFCs. It is found that the size of the firm is the preferred determinant that accounts for cross-sectional variation in the interest rate sensitivity of finance companies. When unanticipated changes in interest rate are used in lieu of actual interest rate changes, not much difference is observed in the significance coefficients. The only significant

KEY WORDS

ARIMA

Financial Sector

GARCH

Interest rate

Panel Regression

Stock Returns

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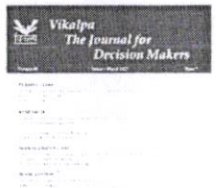

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A novel approach towards deriving vocabulary quotient

Nikhil Kumar Rajput and Bhavya Ahuja
Department of Computer Science, Ramanujan College (University of Delhi), New Delhi, India

Manoj Kumar Riyal
Government Postgraduate College, Kotdwar, Uttarakhand, India

Abstract

A Shannon's entropy-based measure for assessing a person's vocabulary strength has been proposed, which has been termed vocabulary quotient. The measure proposed has been made independent of the text size by normalization and determines the degree of uniqueness in the document. It takes into consideration the number of different words used and the frequency of their usage. The vocabulary quotient has been calculated for two cases: one over the original and the other on the text after the removal of function words. The value obtained in the second case serves as a more reasonable quantification, as content words give a more realistic view of a person's vocabulary. The measure, hence, computed can also be used to determine vocabulary growth of a person over time.

Correspondence:
Bhavya Ahuja, Department of Computer Science, Ramanujan College (University of Delhi), New Delhi, India.
E-mail:
b.ahuja@ramanujan.du.ac.in

1 Introduction

Word frequency distribution in written texts in several languages has been studied exhaustively. The laws which govern word frequency distribution are due to Zipf, Zipf–Mandelbrot, Yule–Simon, Waring–Herdan–Muller, and many others (Baayen, 2001). These laws give a brief idea about the pattern of words used in any document.

Another statistical measure that has been earnestly used in text analysis is attributed to Shannon. This measure has been employed to quantify the randomness in the text (Shannon, 1951). It has also been widely utilized in analyzing the word formation in any language.

Vocabulary growth from the psychological point of view has been profoundly researched (Huttenlocher *et al.*, 1991). It has also been reviewed for pedagogical vocabulary learning (Nation and Waring, 1997). Several attempts have been made to quantify vocabulary richness. A brief overview of the work done in this context is given in the following section. One of the major drawbacks in the existing vocabulary quantification methods is that they are affected by the document size.

In the present work, a Shannon's entropy-based measure for quantification of vocabulary has been proposed. The entropy has been normalized to make the measure independent of the document size. The quantification after removing functional words has also been carried out, and this gives a more appropriate measure of vocabulary richness. The measure derived has been termed as Vocabulary Quotient.

The next section presents a literature survey of the existing work done by various researchers in the area of vocabulary richness. The section that follows describes the approach proposed for deriving Vocabulary Quotient. Section IV details the results obtained on application of the described technique

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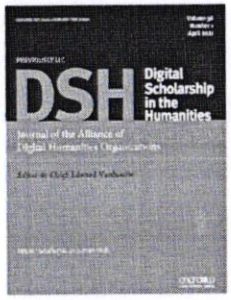

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Research Article

Characterization of 2-Path Product Signed Graphs with Its Properties

Deepa Sinha and Deepakshi Sharma

Department of Mathematics, South Asian University, Akbar Bhawan Chanakyapuri, New Delhi 110021, India

Correspondence should be addressed to Deepa Sinha; deepasinha2001@gmail.com

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A *signed graph* is a simple graph where each edge receives a sign positive or negative. Such graphs are mainly used in social sciences where individuals represent vertices friendly relation between them as a positive edge and enmity as a negative edge. In signed graphs, we define these relationships (edges) as of friendship ("+" edge) or hostility ("−" edge). A *2-path product signed graph* $S\tilde{\#}S$ of a signed graph S is defined as follows: the vertex set is the same as S and two vertices are adjacent if and only if there exists a path of length two between them in S. The sign of an edge is the product of marks of vertices in S where the mark of vertex u in S is the product of signs of all edges incident to the vertex. In this paper, we give a characterization of 2-path product signed graphs. Also, some other properties such as sign-compatibility and canonically-sign-compatibility of 2-path product signed graphs are discussed along with isomorphism and switching equivalence of this signed graph with 2-path signed graph.

1. Introduction

Signed graph forms one of the most vibrant areas of research in graph theory and network analysis due to its link with behavioural and social sciences. The earliest appearance of signed graphs can be traced back to Heider [1] and Cartwright [2]. From that time to recently, signed theory has evolved rapidly with signed graphs being linked to algebra [3–5], social networks [6, 7], other models [8, 9], and graph spectra [10] to name few. In graph theory, itself signed graphs have been used to define many properties and new concepts. In [11, 12] the signed graph of line signed graphs is discussed, whereas [13, 14] talks about common edge signed graphs. The work in [15, 16] generalises the (k, d)-graceful graphs to signed graphs. The colouring of signed graphs is reported in [17–19]. The connection between the intersection graphs of neighborhood and signed graphs has also been studied [20–24]. Recently a Coxeter spectral analysis and a Coxeter spectral classification of the class of edge-bipartite graphs (that is a class of signed (multi)graphs) is developed in the papers [25–27] in relation to Lie theory problems, quasi Cartan matrices, Dynkin diagrams, Hilbert's X Problem, combinatorics of Coxeter groups, and the Auslander-Reiten theory of module categories and their derived categories. In this paper, we were mainly driven to carry out work in the area of signed graphs derived from 2-path product operations, which primarily deals with the structural reconfiguration of the structure of dynamical systems under prescribed rules and the rules are designed to address a variety of interconnections among the elements of the system. We have obtained some theoretical results (some of which are presented in [28]) with a hope of building necessary conceptual resources for applications. For standard terminology and notation in graph theory one can refer to Harary [29] and West [30] and for signed graph literature one can read Zaslavsky [19, 31, 32]. Throughout the text, we consider finite, undirected graph with no loops or multiple edges.

A *signed graph* is an ordered pair $S = (\Sigma, \sigma)$, where Σ is a graph $\Sigma = (V, E)$, called the underlying graph of S and $\sigma : E \to \{+, -\}$ is a function from the edge set E of Σ into the set $\{+, -\}$, called the *signature* (or *sign* in short) of S. Alternatively, the signed graph can be written as $S = (V, E, \sigma)$, with V, E, and σ in the above sense. A signed graph is *all-positive* (resp., *all negative*) if all its edges are positive (negative);

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