INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT



A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories Indexed & Listed at: Ulrich's Periodicals Directory ©, ProQuest, U.S.A., EBSCO Publishing, U.S.A., Cabell's Directories of Publishing Opportunities, U.S.A., Google Scholar,

Den J Gage, India Ticker of the same is duly available at infiltance of University Grants Commission (U.G.C.), Index Copernicus Publishers Panel, Poland with IC Value of 5.09 & number of libraries all around the world. Circulated all over the world & Google has verified that scholars of more than 5000 Cities in 187 countries/territories are visiting our journal on regular basis.

Ground Floor, Building No. 1041-C-1, Devi Bhawan Bazar, JAGADHRI – 135 003, Yamunanagar, Haryana, INDIA

http://ijrcm.org.in/

ii

CONTENTS

Sr.		Page
No.	TITLE & NAME OF THE AUTHOR (S)	No.
1.	AN ASSESSMENT OF THE LEVEL OF e-COMMERCE ADOPTION AND BENEFITS DERIVED BY SMALL AND	1
	MEDIUM ENTERPRISES (SMEs) IN ZIMBABWE	
	DR. B. NGWENYA & F. SINYOLO	
2 .	RETURNS DOMINATE THE MARKETING OF RISK COVERAGE IN POSTAL LIFE INSURANCE SECTOR: A	4
	STUDY WITH REFERENCE TO CHHATTISGARH POSTAL CIRCLE	
	ASHA RAMTEKE, SS KHANUJA & OP CHANDRAKAR	
3.	A STUDY ON FACTOR INFLUENCING OF THE CONSUMER BUYING BEHAVIOR OF TWO WHEELER	8
	MOTOR CYCLES - WITH REFERENCE TO CHITTOOR DISTRICT, ANDHRA PRADESH	
	DELLI KUMAR. KOTI & DR. P. BALAJI PRASAD	
4.	FACTORS INFLUENCING INVESTMENT IN MUTUAL FUND: A STUDY REGARDING INVESTORS	13
	BEHAVIOUR	
	DR. HITESH VYAS & AUM DAVE	
5.	CSR REPORTING IN THE LIGHT OF THE EUROPEAN UNION DIRECTIVES	16
	RYSZARD KAMIŃSKI	
6.	A STUDY ON THE INVESTORS AWARENESS TOWARDS HEALTH INSURANCE POLICY IN TAMILNADU	20
	DR. P. RAMAN	-
7.	WEATHER INDEX BASED CROP INSURANCE ASSESSMENT: TECHNOLOGICAL ADVANTAGES IN INDIA	27
	G. KOTRESHWAR & V.GURUSIDDARAJU	
8.	CRM IN RETAILING	32
•	DR. NARINDER TANWAR	
9.	LIBRARY AUTOMATION: AN OVERVIEW	36
	P. SEKAR & DR. K.C. ABDUL MAJEED	
10.	IMPACT OF STRESS ON MENTAL HEALTH OF SCHOOL TEACHERS IN RANCHI: A SOCIO -	39
_•·	PSYCHOLOGICAL STUDY	•••
	BINDA KUMARI	
11.	SMART CITIES – CHALLENGES AND IMPLEMENTATION APPROACHES: COMPARISON PERSPECTIVE IN	44
	INDIA, UAE AND SINGAPORE	
	RAMAMURTHY VENKATESH, CHINTAN VADGAMA & MADHAVI DAMLE	
12.	IMPACT OF TRAINING PROGRAMMES OF CENTRAL BOARD FOR WORKERS EDUCATION ON THE	53
12.	LABOUR FORCE OF KERALA	
	SHEEBA JOSEPH	
13.	ONLINE BUYING BEHAVIOUR AMONG TEENAGERS - AN INDIAN PERSPECTIVE	56
13.	ABHINAV GUPTA	50
14.	WEST BENGAL - A TOURIST DESTINATION: COMPARATIVE ANALYSIS OF BENGAL TOURISM BUSINESS	58
14.	MODEL WITH KERALA & GUJARAT	50
	SANJANA MONDAL	
15.	e-COMMERCE IN INDIA: A BOON OR BANE	63
15.	DR. GURINDER KAUR	05
10	CHALLENGES OF E-SERVICE ADOPTION AND IMPLEMENTATION IN ALLAHABAD	
16 .	DR. AARTI ARORA & AMIT KUMAR	66
47	EFFECTS OF TEACHING FACILITIES AND LEARNING RESOURCES ON THE PERFORMANCE OF SCIENCE IN	70
17.	PRIMARY SCHOOLS IN KENYA	73
	GRACE AKINYI OYUGI	
10	IMPACT OF LIBERALISATION ON WORKING OF APMC: A CASE STUDY OF DHARWAD DISTRICT	75
18 .		75
4.0	DR. VIJAYAKUMAR MANE	
19 .	A STUDY ON THE CUSTOMER PERCEPTION TOWARDS PASSENGER CARS WITH SPECIAL REFERENCE TO	78
	MALAPPURAM DISTRICT IN KERALA	
	SHAHIBA.EC	
20 .	COLLECTIVE BARGAINING: A GENERAL PERSPECTIVE	81
	BRAJESH KUMAR PARASHAR	_
	REQUEST FOR FEEDBACK & DISCLAIMER	85

<u>CHIEF PATRON</u>

PROF. K. K. AGGARWAL

Chairman, Malaviya National Institute of Technology, Jaipur (An institute of National Importance & fully funded by Ministry of Human Resource Development, Government of India) Chancellor, K. R. Mangalam University, Gurgaon Chancellor, Lingaya's University, Faridabad Founder Vice-Chancellor (1998-2008), Guru Gobind Singh Indraprastha University, Delhi Ex. Pro Vice-Chancellor, Guru Jambheshwar University, Hisar

FOUNDER PATRON

LATE SH. RAM BHAJAN AGGARWAL

Former State Minister for Home & Tourism, Government of Haryana Former Vice-President, Dadri Education Society, Charkhi Dadri Former President, Chinar Syntex Ltd. (Textile Mills), Bhiwani

FORMER CO-ORDINATOR

DR. S. GARG Faculty, Shree Ram Institute of Business & Management, Urjani

<u>ADVISORS</u>

PROF. M. S. SENAM RAJU Director A. C. D., School of Management Studies, I.G.N.O.U., New Delhi PROF. S. L. MAHANDRU Principal (Retd.), Maharaja Agrasen College, Jagadhri

EDITOR

PROF. R. K. SHARMA Professor, Bharti Vidyapeeth University Institute of Management & Research, New Delhi

EDITORIAL ADVISORY BOARD

DR. RAJESH MODI Faculty, Yanbu Industrial College, Kingdom of Saudi Arabia PROF. PARVEEN KUMAR Director, M.C.A., Meerut Institute of Engineering & Technology, Meerut, U. P. PROF. H. R. SHARMA Director, Chhatarpati Shivaji Institute of Technology, Durg, C.G. PROF. MANOHAR LAL Director & Chairman, School of Information & Computer Sciences, I.G.N.O.U., New Delhi PROF. ANIL K. SAINI Chairperson (CRC), Guru Gobind Singh I. P. University, Delhi PROF. R. K. CHOUDHARY Director, Asia Pacific Institute of Information Technology, Panipat DR. ASHWANI KUSH Head, Computer Science, University College, Kurukshetra University, Kurukshetra

INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories http://ijrcm.org.in/ **DR. BHARAT BHUSHAN**

Head, Department of Computer Science & Applications, Guru Nanak Khalsa College, Yamunanagar

DR. VIJAYPAL SINGH DHAKA

Dean (Academics), Rajasthan Institute of Engineering & Technology, Jaipur

DR. SAMBHAVNA

Faculty, I.I.T.M., Delhi

DR. MOHINDER CHAND

Associate Professor, Kurukshetra University, Kurukshetra

DR. MOHENDER KUMAR GUPTA

Associate Professor, P. J. L. N. Government College, Faridabad

DR. SHIVAKUMAR DEENE

Asst. Professor, Dept. of Commerce, School of Business Studies, Central University of Karnataka, Gulbarga

DR. BHAVET

Faculty, Shree Ram Institute of Engineering & Technology, Urjani

ASSOCIATE EDITORS

PROF. ABHAY BANSAL Head, Department of Information Technology, Amity School of Engineering & Technology, Amity University, Noida PROF. NAWAB ALI KHAN Department of Commerce, Aligarh Muslim University, Aligarh, U.P. ASHISH CHOPRA Sr. Lecturer, Doon Valley Institute of Engineering & Technology, Karnal

FORMER TECHNICAL ADVISOR

AMITA Faculty, Government M. S., Mohali

FINANCIAL ADVISORS

DICKIN GOYAL Advocate & Tax Adviser, Panchkula NEENA Investment Consultant, Chambaghat, Solan, Himachal Pradesh

LEGAL ADVISORS

JITENDER S. CHAHAL Advocate, Punjab & Haryana High Court, Chandigarh U.T. CHANDER BHUSHAN SHARMA Advocate & Consultant, District Courts, Yamunanagar at Jagadhri



SURENDER KUMAR POONIA

iv

CALL FOR MANUSCRIPTS

We invite unpublished novel, original, empirical and high quality research work pertaining to the recent developments & practices in the areas of Computer Science & Applications; Commerce; Business; Finance; Marketing; Human Resource Management; General Management; Banking; Economics; Tourism Administration & Management; Education; Law; Library & Information Science; Defence & Strategic Studies; Electronic Science; Corporate Governance; Industrial Relations; and emerging paradigms in allied subjects like Accounting; Accounting Information Systems; Accounting Theory & Practice; Auditing; Behavioral Accounting; Behavioral Economics; Corporate Finance; Cost Accounting; Econometrics; Economic Development; Economic History; Financial Institutions & Markets; Financial Services; Fiscal Policy; Government & Non Profit Accounting; Industrial Organization; International Economics & Trade; International Finance; Macro Economics; Micro Economics; Rural Economics; Co-operation; Demography: Development Planning; Development Studies; Applied Economics; Development Economics; Business Economics; Monetary Policy; Public Policy Economics; Real Estate; Regional Economics; Political Science; Continuing Education; Labour Welfare; Philosophy; Psychology; Sociology; Tax Accounting; Advertising & Promotion Management; Management Information Systems (MIS); Business Law; Public Responsibility & Ethics; Communication; Direct Marketing; E-Commerce; Global Business; Health Care Administration; Labour Relations & Human Resource Management; Marketing Research; Marketing Theory & Applications; Non-Profit Organizations; Office Administration/Management; Operations Research/Statistics; Organizational Behavior & Theory; Organizational Development; Production/Operations; International Relations; Human Rights & Duties; Public Administration; Population Studies; Purchasing/Materials Management; Retailing; Sales/Selling; Services; Small Business Entrepreneurship; Strategic Management Policy; Technology/Innovation; Tourism & Hospitality; Transportation Distribution; Algorithms; Artificial Intelligence; Compilers & Translation; Computer Aided Design (CAD); Computer Aided Manufacturing; Computer Graphics; Computer Organization & Architecture; Database Structures & Systems; Discrete Structures; Internet; Management Information Systems; Modeling & Simulation; Neural Systems/Neural Networks; Numerical Analysis/Scientific Computing; Object Oriented Programming; Operating Systems; Programming Languages; Robotics; Symbolic & Formal Logic; Web Design and emerging paradigms in allied subjects.

Anybody can submit the **soft copy** of unpublished novel; original; empirical and high quality **research work/manuscript anytime** in <u>M.S. Word format</u> after preparing the same as per our **GUIDELINES FOR SUBMISSION**; at our email address i.e. <u>infoijrcm@gmail.com</u> or online by clicking the link **online submission** as given on our website (*FOR ONLINE SUBMISSION, CLICK HERE*).

GUIDELINES FOR SUBMISSION OF MANUSCRIPT

	1.	COVERING LETTER FOR SUBMISSION	1
--	----	--------------------------------	---

DATED: _____

THE EDITOR

IJRCM

Subject: SUBMISSION OF MANUSCRIPT IN THE AREA OF

(e.g. Finance/Mkt./HRM/General Mgt./Engineering/Economics/Computer/IT/ Education/Psychology/Law/Math/other, please specify)

DEAR SIR/MADAM

Please find my submission of manuscript titled '______' for likely publication in one of your journals.

I hereby affirm that the contents of this manuscript are original. Furthermore, it has neither been published anywhere in any language fully or partly, nor it is under review for publication elsewhere.

I affirm that all the co-authors of this manuscript have seen the submitted version of the manuscript and have agreed to inclusion of their names as co-authors.

Also, if my/our manuscript is accepted, I agree to comply with the formalities as given on the website of the journal. The Journal has discretion to publish our contribution in any of its journals.

NAME OF CORRESPONDING AUTHOR	:
Designation/Post*	:
Institution/College/University with full address & Pin Code	:
Residential address with Pin Code	:
Mobile Number (s) with country ISD code	:
Is WhatsApp or Viber active on your above noted Mobile Number (Yes/No)	:
Landline Number (s) with country ISD code	:
E-mail Address	:
Alternate E-mail Address	:
Nationality	:

* i.e. Alumnus (Male Alumni), Alumna (Female Alumni), Student, Research Scholar (M. Phil), Research Scholar (Ph. D.), JRF, Research Assistant, Assistant Lecturer, Lecturer, Senior Lecturer, Junior Assistant Professor, Assistant Professor, Senior Assistant Professor, Co-ordinator, Reader, Associate Professor, Professor, Head, Vice-Principal, Dy. Director, Principal, Director, Dean, President, Vice Chancellor, Industry Designation etc. <u>The qualification of</u> <u>author is not acceptable for the purpose</u>.

NOTES:

- a) The whole manuscript has to be in **ONE MS WORD FILE** only, which will start from the covering letter, inside the manuscript. <u>**pdf.**</u> <u>**version**</u> is liable to be rejected without any consideration.
- b) The sender is required to mention the following in the SUBJECT COLUMN of the mail:

New Manuscript for Review in the area of (e.g. Finance/Marketing/HRM/General Mgt./Engineering/Economics/Computer/IT/ Education/Psychology/Law/Math/other, please specify)

- c) There is no need to give any text in the body of the mail, except the cases where the author wishes to give any **specific message** w.r.t. to the manuscript.
- d) The total size of the file containing the manuscript is expected to be below 1000 KB.
- e) Only the **Abstract will not be considered for review** and the author is required to submit the **complete manuscript** in the first instance.
- f) The journal gives acknowledgement w.r.t. the receipt of every email within twenty-four hours and in case of non-receipt of acknowledgment from the journal, w.r.t. the submission of the manuscript, within two days of its submission, the corresponding author is required to demand for the same by sending a separate mail to the journal.
- g) The author (s) name or details should not appear anywhere on the body of the manuscript, except on the covering letter and the cover page of the manuscript, in the manner as mentioned in the guidelines.
- 2. MANUSCRIPT TITLE: The title of the paper should be typed in **bold letters**, centered and fully capitalised.
- 3. AUTHOR NAME (S) & AFFILIATIONS: Author (s) name, designation, affiliation (s), address, mobile/landline number (s), and email/alternate email address should be given underneath the title.
- 4. ACKNOWLEDGMENTS: Acknowledgements can be given to reviewers, guides, funding institutions, etc., if any.
- 5. **ABSTRACT:** Abstract should be in **fully Italic printing**, ranging between **150** to **300 words**. The abstract must be informative and elucidating the background, aims, methods, results & conclusion in a **SINGLE PARA**. *Abbreviations must be mentioned in full*.
- 6. **KEYWORDS**: Abstract must be followed by a list of keywords, subject to the maximum of **five**. These should be arranged in alphabetic order separated by commas and full stop at the end. All words of the keywords, including the first one should be in small letters, except special words e.g. name of the Countries, abbreviations etc.
- 7. **JEL CODE**: Provide the appropriate Journal of Economic Literature Classification System code (s). JEL codes are available at www.aea-web.org/econlit/jelCodes.php. However, mentioning of JEL Code is not mandatory.
- 8. **MANUSCRIPT**: Manuscript must be in <u>BRITISH ENGLISH</u> prepared on a standard A4 size <u>PORTRAIT SETTING PAPER</u>. It should be free from any errors i.e. grammatical, spelling or punctuation. It must be thoroughly edited at your end.
- 9. HEADINGS: All the headings must be bold-faced, aligned left and fully capitalised. Leave a blank line before each heading.
- 10. **SUB-HEADINGS**: All the sub-headings must be bold-faced, aligned left and fully capitalised.
- 11. MAIN TEXT:

THE MAIN TEXT SHOULD FOLLOW THE FOLLOWING SEQUENCE:

INTRODUCTION REVIEW OF LITERATURE NEED/IMPORTANCE OF THE STUDY STATEMENT OF THE PROBLEM OBJECTIVES HYPOTHESIS (ES) RESEARCH METHODOLOGY RESULTS & DISCUSSION FINDINGS RECOMMENDATIONS/SUGGESTIONS CONCLUSIONS LIMITATIONS SCOPE FOR FURTHER RESEARCH REFERENCES APPENDIX/ANNEXURE

The manuscript should preferably be in 2000 to 5000 WORDS, But the limits can vary depending on the nature of the manuscript

- 12. **FIGURES & TABLES**: These should be simple, crystal **CLEAR**, **centered**, **separately numbered** & self-explained, and the **titles must be above the table/figure**. Sources of data should be mentioned below the table/figure. It should be ensured that the tables/figures are referred to from the main text.
- 13. **EQUATIONS/FORMULAE:** These should be consecutively numbered in parenthesis, left aligned with equation/formulae number placed at the right. The equation editor provided with standard versions of Microsoft Word may be utilised. If any other equation editor is utilised, author must confirm that these equations may be viewed and edited in versions of Microsoft Office that does not have the editor.
- 14. **ACRONYMS:** These should not be used in the abstract. The use of acronyms is elsewhere is acceptable. Acronyms should be defined on its first use in each section e.g. Reserve Bank of India (RBI). Acronyms should be redefined on first use in subsequent sections.
- 15. **REFERENCES:** The list of all references should be alphabetically arranged. *The author (s) should mention only the actually utilised references in the preparation of manuscript* and they may follow Harvard Style of Referencing. Also check to ensure that everything that you are including in the reference section is duly cited in the paper. The author (s) are supposed to follow the references as per the following:
- All works cited in the text (including sources for tables and figures) should be listed alphabetically.
- Use (ed.) for one editor, and (ed.s) for multiple editors.
- When listing two or more works by one author, use --- (20xx), such as after Kohl (1997), use --- (2001), etc., in chronologically ascending order.
- Indicate (opening and closing) page numbers for articles in journals and for chapters in books.
- The title of books and journals should be in italic printing. Double quotation marks are used for titles of journal articles, book chapters, dissertations, reports, working papers, unpublished material, etc.
- For titles in a language other than English, provide an English translation in parenthesis.
- *Headers, footers, endnotes* and *footnotes* should *not be used* in the document. However, you can mention short notes to elucidate some specific point, which may be placed in number orders before the references.

PLEASE USE THE FOLLOWING FOR STYLE AND PUNCTUATION IN REFERENCES:

BOOKS

- Bowersox, Donald J., Closs, David J., (1996), "Logistical Management." Tata McGraw, Hill, New Delhi.
- Hunker, H.L. and A.J. Wright (1963), "Factors of Industrial Location in Ohio" Ohio State University, Nigeria.

CONTRIBUTIONS TO BOOKS

• Sharma T., Kwatra, G. (2008) Effectiveness of Social Advertising: A Study of Selected Campaigns, Corporate Social Responsibility, Edited by David Crowther & Nicholas Capaldi, Ashgate Research Companion to Corporate Social Responsibility, Chapter 15, pp 287-303.

JOURNAL AND OTHER ARTICLES

• Schemenner, R.W., Huber, J.C. and Cook, R.L. (1987), "Geographic Differences and the Location of New Manufacturing Facilities," Journal of Urban Economics, Vol. 21, No. 1, pp. 83-104.

CONFERENCE PAPERS

• Garg, Sambhav (2011): "Business Ethics" Paper presented at the Annual International Conference for the All India Management Association, New Delhi, India, 19–23

UNPUBLISHED DISSERTATIONS

• Kumar S. (2011): "Customer Value: A Comparative Study of Rural and Urban Customers," Thesis, Kurukshetra University, Kurukshetra.

ONLINE RESOURCES

• Always indicate the date that the source was accessed, as online resources are frequently updated or removed.

WEBSITES

Garg, Bhavet (2011): Towards a New Gas Policy, Political Weekly, Viewed on January 01, 2012 http://epw.in/user/viewabstract.jsp

AN ASSESSMENT OF THE LEVEL OF e-COMMERCE ADOPTION AND BENEFITS DERIVED BY SMALL AND MEDIUM ENTERPRISES (SMEs) IN ZIMBABWE

DR. B. NGWENYA DEAN FACULTY OF BUSINESS SOLUSI UNIVERSITY ZIMBABWE

F. SINYOLO STUDENT SOLUSI UNIVERSITY ZIMBABWE

ABSTRACT

The purpose of this study was to assess the extent and benefit of use of e-Commerce by SMEs in Zimbabwe. A group of SMEs were targeted out of whom; they gave their personal views on the extent and benefits of use of e-Commerce in their businesses. Data was collected by the use of a well- designed Likert scale questionnaire, which was administered to hundred and fifty (150) SMEs owners and management representatives. The questionnaire consisted of 71items questions covering e-Commerce factors such as technology and human interface, adequate computer systems, internet connectivity, information communication technology, information processing and online business transactions as independent variables. While reduced operational cost, improved customer service, increased sales and profitability reflected independent variables. A software package for Social Sciences (SPSS) version 16.0 was used to analyse the data through quantitative and descriptive methods. The results of the study were that SMEs in Zimbabwe are using e-Commerce in their operational cost, operational, distribution, communication, delivery, advertising, administrative and management. The findings also show that those SMEs who are using e-Commerce in their operations tend to have higher annual revenues than those that do not.

KEYWORDS

e-Commerce, SMEs, sales revenues, customer service, profitability, operational costs, internet connectivity.

INTRODUCTION

Internet has driven e-Commerce) has changed and is still changing the way business is conducted around the world. The Commercialization through internet has driven e-Commerce to become one of the most promising channels for inter-organizational business processes. It can be in the form of e-Advertising, e-Payment system, e-Marketing, e-Customer support services and e-Order and delivery (Sharma, 2002). The emergence of e-Commerce is redefining the way business is conducted. It offers organizations new ways to expand the markets, in which they compete, streamlines their corporate business processes to deliver products and services more efficiently, attracts and retains customers in new and innovative ways, and reduces costs of operations. E-commerce is transforming the way customers, employees, and suppliers are relating to one another. These changes are forcing organizations to craft new strategies and adopt new methods of implementation (Denning, 2012). Like in any other part of the world, many Small and Medium sized Enterprises (SMEs) in Zimbabwe are investing more and more in the internet communication platform. In order to survive in today's challenging and competitive environment, it is imperative that SMEs become competitive and resilient. The growth of e-Commerce in recent years has enabled organizations to trade globally. However, SMEs seem to be aware of environmental changes and the corresponding defensive measures but no significant growth is visible. Over a decade now, SMEs in Zimbabwe were formed following the creation of the Ministry of Small-to- Medium Enterprises and Co-operatives Development by the Government of Zimbabwe with the vision; 'to be the "nerve" centre for growth, empowerment and the development of SMEs in Zimbabwe'. On the other hand, financial institutions had been throwing their weight on these SMEs providing loans and the Small-to- Medium Enterprise Development Corporation (SEDCO) is still abundantly supporting qualifying SMEs, technically and financially.

NEED FOR THE STUDY

According to MacEwan (2013), there are about 10 000 SMEs in Zimbabwe controlling about 65 percent of the total corporate purchasing power. Small and medium sized firms dominate both developed and developing economies in terms of employment and number of companies, yet their full potential remains untapped. The Zimbabwe National Association of Small-to- Medium Sized Enterprises (ZNASMEs) confirms this number as registered with the Association. These cover all the sectors of the industry (Green, 2007). In Zimbabwe SMEs are best identified by the number of employees, that is, of between 1 and 75 as suggested by (Green, 2007). However, many of these have since transformed in one way or the other and others severally. The purpose of a business is to grow and the SMEs continuously evolve as stimulus response to environmental changes. Regardless of strategic and material assistance given at national level, most of these still remain 'life-style' businesses to provide owner-manager with acceptable income at 'comfort-level' of activity (MacEwan, 2013) rather than aiming to grow. This perspective exposes SMEs to the view that they are traditionally businesses owned by an uneducated, unskilled poor immigrant with an ethnic background (Green, 2007) and who seeks upward social mobility. Regardless of the above benefits that they can derive from implementing e-Commerce in their operations, few SMEs seem to be keen to adopt it maybe it is because of lack of knowledge and resources. This study therefore sought to unroll the extent to which SMEs have adopted the use of e-Commerce in their business operation in Zimbabwe and also to find out the extent of benefits they can derive by using e-Commerce in their business operation in Zimbabwe and also to find out the extent of benefits they can derive by using e-Commerce in their business operation in Zimbabwe and also to find out the extent of benefits they can derive by using e-Commerce in their business operation.

STATEMENT OF THE PROBLEM

According to literature, there are so many benefits or advantages that the SMEs can derive by adopting e-Commerce in their operations, these include the reduced costs and improved customer service in addition to increased sales and profitability. These costs include transactional, operational, distribution, communication, delivery, advertising, administrative and management (Wilson and Abbel, 2002). According to the Ministry of Small and Medium Enterprises few SMEs in Zimbabwe have managed to adopt e-Commerce regardless of many advantages and benefits they can get from it. The study therefore sought to find out to what extent have SMEs in Zimbabwe adopted and benefited from the use of e-Commerce in their business operations.

OBJECTIVES OF THE STUDY

- 1. To assess the extent to which SMEs in Zimbabwe have adopted e-Commerce.
- 2. To determining whether there are any benefits that have accrued to SMEs in Zimbabwe from adopting use of e-Commerce in their businesses.

INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories http://ijrcm.org.in/

METHODOLOGY

The researchers used quantitative research design and administered a total of 150 questionnaires to collect data. Questionnaires were issued out to SMEs owners and SMEs managers of various SMEs industrial sectors. The questionnaires were distributed on door to door basis using judgmental sampling and random sampling techniques. The questionnaires were collected as soon as the respondents had completed them.

LITERATURE REVIEW

Small-to-Medium Sized Enterprises (SMEs): In Zimbabwe, the Ministry of SMEs (2000) defines a small enterprise as a business that employs not more than 50 people while operating as a registered entity and a medium sized enterprise is one that employees up to 75 to 100 people. The Small Enterprises Development Corporation (SEDCO) (2010) does not differentiate between the small and medium sized entities but defines a small and medium sized enterprise as a form that has not more than 100 employees and above.

E-commerce: Refers to a wide range of online business activities for products and services. It also pertains to any form of business transaction in which the parties interact electronically rather than by the physical exchange or direct physical contact. A more complete definition is that e-Commerce is the use of electronic communications and digital information processing technology in business transactions to create, transform, and redefine relationships for value creation between or among the organizations, and between organizations and individuals (Chang, 2002).

Technology and Infrastructure Support: The rapid changes taking place in technological environment brought about major changes in the way organisations operate. Porter (2008) suggests that infrastructure and technology of any organisation depends on the financial strengths of that organisation. It is a prerequisite for entrepreneurs to have proper budgets in order to take care of the infrastructure and technology requirements of an organization. Identification of sources of technologies appropriate to their specific activities and procurement of cost effective technology is very crucial for effective running of an enterprises. Often most of SMEs are always struggling to produce required documents whether by banks or government authorities, these documents may include simple financial statements, business plans, budgets or balance sheets, while a good system can assist them in this regard.

Benefits and Advantages of e-Commerce on SMEs: Using e-Commerce, organizations can expand their markets to national and international markets with minimum capital investments. An organization can easily locate more customers, best suppliers and suitable business partners across the globe. E-commerce helps organization to reduce the cost to create process, distribute, retrieve and manage the paper based information by digitalizing the information. E-commerce improves the brand image of the company and helps organization to provide better customer services. E-commerce offers numerous benefits including reduced costs and improved customer service. These costs include transactional cost, operational, distribution, communication, delivery, advertising, administrative and management (Wilson and Abbel, 2002).

Reduced Operational Costs: E-Commerce offers numerous benefits including reduced costs and improved customer service. These costs include transactional cost, operational, distribution, communication, delivery, advertising, administrative and management (Wilson and Abbel, 2002). E-Commerce is used as low cost product advertising and marketing tool, and the medium works well since it can overcome time and geographic limitations (Sharma, 2002). E-Commerce is significantly reshaping manufacturing organizations. It is changing manufacturing systems from mass production to demand-driven, possible just-in-time manufacturing systems. The internet as an enabling force for improved supply chain management, offers efficiency and cost reduction to business processes across industries and nations (Lancioni, 2003). By adopting e-Commerce, business growth can be achieved either by boosting top line or revenue of business with greater product sales or service income or by increasing bottom line or profitability of the operation by minimizing costs (Sharma, 2002).

Improved Customer Service: E-Commerce improves the flow of organizational information. It is especially useful at gathering intelligence on customers, competitors, and potential markets. It increases the organization's ability to sense and respond to the market needs by collecting and disseminating market information throughout the organization. Strategic flexibility enables an organization to provide customers with personalized products while returning the economic advantages of mass production. With the information, the organization could accurately assess or stimulate market demand and search for new markets (Chang, 2002).

Increased Sales: E-Commerce allows organizations to quickly respond to customer needs through reduction of the time to the market, the time to produce, the time to deliver and the time to service, and this will result in the organization providing excellent customer service that meets the customers' needs and expectations, the customers will then recommend your products and services to others which will increase your sales (Riely, 2006).

Profitability: The use of e-Commerce can assist the business to operate profitably. Instead of business making several trips and shopping around for raw materials, a few mouse clicks can assist the business in identifying the suitable supplier while in the office. This will save the costs of travelling and time spent. Reduced operational costs will therefore increase the profitability of the SMEs.

ANALYSIS OF THE STUDY

TABLE 1: EXTENT TO WHICH SMEs USE E-COMMERCE IN THEIR BUSINESS

Variables	Ν	Minimum	Maximum	Mean	Standard Deviation
Technology and Human Interface	150	1.00	5.00	3.2800	1.24605
Adequate Computer Systems	150	1.00	5.00	3.1600	1.20136
Internet Connectivity	150	1.00	5.00	3.3400	0.98167
Information Communication Technology Skills	150	1.00	5.00	3.4400	1.01338
Information Processing and Online Business Transactions	150	1.00	5.00	3.5600	0.99304

Table1 above depicts the responses to the question on use of e-Commerce by SMEs. The statistics reflects an indifferent attitude by SMEs on the issue of technology and Human Interface, with an overall mean score of 3.2800 and the standard deviation of 1.24605; adequate computer systems, with an overall mean score of 3.1600 and standard deviation of 1.20136; internet connectivity, with an overall mean score of 3.3400 and standard deviation of 0.98167; information communication technology skills, with an overall mean score of 3.4400 and standard deviation of 1.01338, and information processing and online business transactions, with an overall mean score of 3.5600 and standard deviation of 0.99304. E-Commerce adoption by SMEs is at its early and infant stages; however the more systems they have the more they have institutionalised e-Commerce in their operations. The SMEs with highly skilled ICT personnel are better placed in dealing with ever changing technological environment. This facilitates the use of e-Commerce in the business operations of the SMEs. The statistics reflects strong evidence of information processing and online business transactions being processed online. This reflects the level of adoption, institutionalisation and diffusion of e-Commerce in the business operations of SMEs in Zimbabwe.

TABLE 2: THE EXTENT OF BENEFIT FROM USE OF e-COMMERCE

Variables	N	Minimum	Maximum	Mean	Standard Deviation	
Reduced Operational Costs	150	1.00	5.00	3.6400	1.04511	
Improved Customer Service	150	1.00	5.00	3.7800	0.99571	
Increased Sales	150	1.00	5.00	3.6800	1.03884	
Profitability	150	1.00	5.00	4.1000	1.14731	

Table 2 above shows the statistical results on the positive attitude of the respondents towards the benefits derived from use of e-Commerce. The respondents acknowledged that the following benefits accrue to SMEs as result of using e-Commerce in their business operations: reduction of operational costs (mean score, 3.6400, standard deviation 1.04511; improved customer service (mean score, 3.7800, standard deviation 0.99571; increased sales (mean score, 3.6800, standard deviation 1.03884 and profitability (mean score, 4.1000, standard deviation 1.14731. The operational costs include transactional cost, distribution, communication, delivery, advertising, administrative and management (Wilson and Abbel, 2002).

TABLE 3: DESCRIPTIVE STATISTICS					
Variables	Ν	Mean	Standard Deviation		
Increased Sales	50	3.6533	.87017		
Technology and Human Interface	50	3.3267	.95829		
Computer Systems	50	3.3533	.92192		
Improved Customer Service	50	3.4267	.86515		
Information Communication Technology	50	3.2867	.84652		
Improved Perceived Profits	50	3.4800	.73179		

Table 3 above depicts the descriptive statistics indicating the respondents' positive perceptions of increased sales; improved profits, reduced operational costs and improved customer service as a result of e-Commerce adoption (technology and human interface, computer systems and information communication technology). The statistics significantly affirms the perceived relationship amongst the variables of the phenomenon under study.

TABLE 4: DESCRIPTIVE STATISTICS							
Variables	Ν	Mean	Standard Deviation				
Perceived Profits	50	3.9467	.92915				
Technology and Human Interface	50	3.3267	.95829				
Computer Systems	50	3.3533	.92192				
Improved Customer Service	50	3.4267	.86515				
Information Communication Technology	50	3.2867	.84652				
Information Processing	50	3.4800	.73179				

Table 4 above depicts the descriptive statistics indicating the respondents' positive perceptions of improved profits, improved customer service as a result of e-Commerce adoption (technology and human interface, computer systems, information communication technology and information processing). The statistics significantly affirms the perceived relationship amongst the variables of the phenomenon under study.

FINDINGS AND SUGGESTIONS

The above results indicate that SMEs in Zimbabwe are using e-Commerce in their operations and they are benefitting in terms of reduced operational costs. These costs include transactional cost, operational, distribution, communication, delivery, advertising, administrative and management. They are also realising significant increases in sales revenues.

Suggestion 1: The research findings show that SMEs were positive about the use of e-commerce in their operations in Zimbabwe. This was shown by the mean score of 3.2800 on Technology and Human Interface, 3.1600 on Adequate Computer System, 3.3400 on Internet Connectivity and 3.4400 on Information Communication Technology Skills.

Suggestion 2: The research findings also showed that SMEs were benefiting in terms of reduced operational costs with a mean score of 3.6400, improved customer service 3.7800, increased sales 3.6800 and perceived profits with 4.1000. This meant that the SMEs were positive on the above as benefits of use of e-commerce. Suggestion 3: The findings also show that there is significant relationship between adoption of e-commerce and reduced operational costs, improved customer service, increased sales and improved profits.

REFERENCES

- 1. Chang, K. (2002). E-commerce and Corporate Strategy: An Executive Perspective, Information and Management, New Dehli: Prentice Hall.
- 2. Denning, B. (2012). E-commerce and Business use of Internet. M2 Presswire. M2 Communication Ltd.
- 3. Green, J. (2007). How to Grow Your Small Business Rapidly Online, How to books.
- 4. Johnson, G. (2006). Exploring Corporate Strategy, Seventh Enhanced Media Edition published 2006.
- 5. Lancioni, R. (2003). Internet Impact on Supply Chain Management, Industrial Marketing Management, Houghton Mifflin Company.
- 6. MacEwan, T. (2013). Alternative Paths for the Growth of e-commerce. Singapore College Publishing.
- 7. Porter M.E. (2008). Competitive Advantage: Creating and Sustaining Super Performance, (1st ed), Prentice Hall.
- 8. Riley, B. R. (2006). Change and Crisis Management: Teach Yourself in association with The Telegraph Business Club.
- 9. Sharma, A. (2002). Trends in internet-based business to business marketing, Industrial Marketing Management, Houghton Mifflin Company.
- 10. Wilson, S & Abbel, Y. (2002). So You Want to Get Involved in e-commerce: Industrial Marketing Management, Houghton Mifflin Company.

REQUEST FOR FEEDBACK

Dear Readers

At the very outset, International Journal of Research in Computer Application & Management (IJRCM) acknowledges & appreciates your efforts in showing interest in our present issue under your kind perusal.

I would like to request you to supply your critical comments and suggestions about the material published in this issue, as well as on the journal as a whole, on our e-mail **infoijrcm@gmail.com** for further improvements in the interest of research.

If you have any queries, please feel free to contact us on our e-mail infoijrcm@gmail.com.

I am sure that your feedback and deliberations would make future issues better – a result of our joint effort.

Looking forward to an appropriate consideration.

With sincere regards

Thanking you profoundly

Academically yours

Sd/-Co-ordinator

DISCLAIMER

The information and opinions presented in the Journal reflect the views of the authors and not of the Journal or its Editorial Board or the Publishers/Editors. Publication does not constitute endorsement by the journal. Neither the Journal nor its publishers/Editors/Editorial Board nor anyone else involved in creating, producing or delivering the journal or the materials contained therein, assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information provided in the journal, nor shall they be liable for any direct, indirect, incidental, special, consequential or punitive damages arising out of the use of information/material contained in the journal. The journal, neither its publishers/Editors/ Editorial Board, nor any other party involved in the preparation of material contained in the journal represents or warrants that the information contained herein is in every respect accurate or complete, and they are not responsible for any errors or omissions or for the results obtained from the use of such material. Readers are encouraged to confirm the information contained herein with other sources. The responsibility of the contents and the opinions expressed in this journal are exclusively of the author (s) concerned.

4

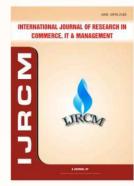
ABOUT THE JOURNAL

In this age of Commerce, Economics, Computer, I.T. & Management and cut throat competition, a group of intellectuals felt the need to have some platform, where young and budding managers and academicians could express their views and discuss the problems among their peers. This journal was conceived with this noble intention in view. This journal has been introduced to give an opportunity for expressing refined and innovative ideas in this field. It is our humble endeavour to provide a springboard to the upcoming specialists and give a chance to know about the latest in the sphere of research and knowledge. We have taken a small step and we hope that with the active cooperation of like-minded scholars, we shall be able to serve the society with our humble efforts.

Our Other Fournals

ARTIONAL JOURNAL OF RESEARCH Commerce & Management





INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories http://ijrcm.org.in/