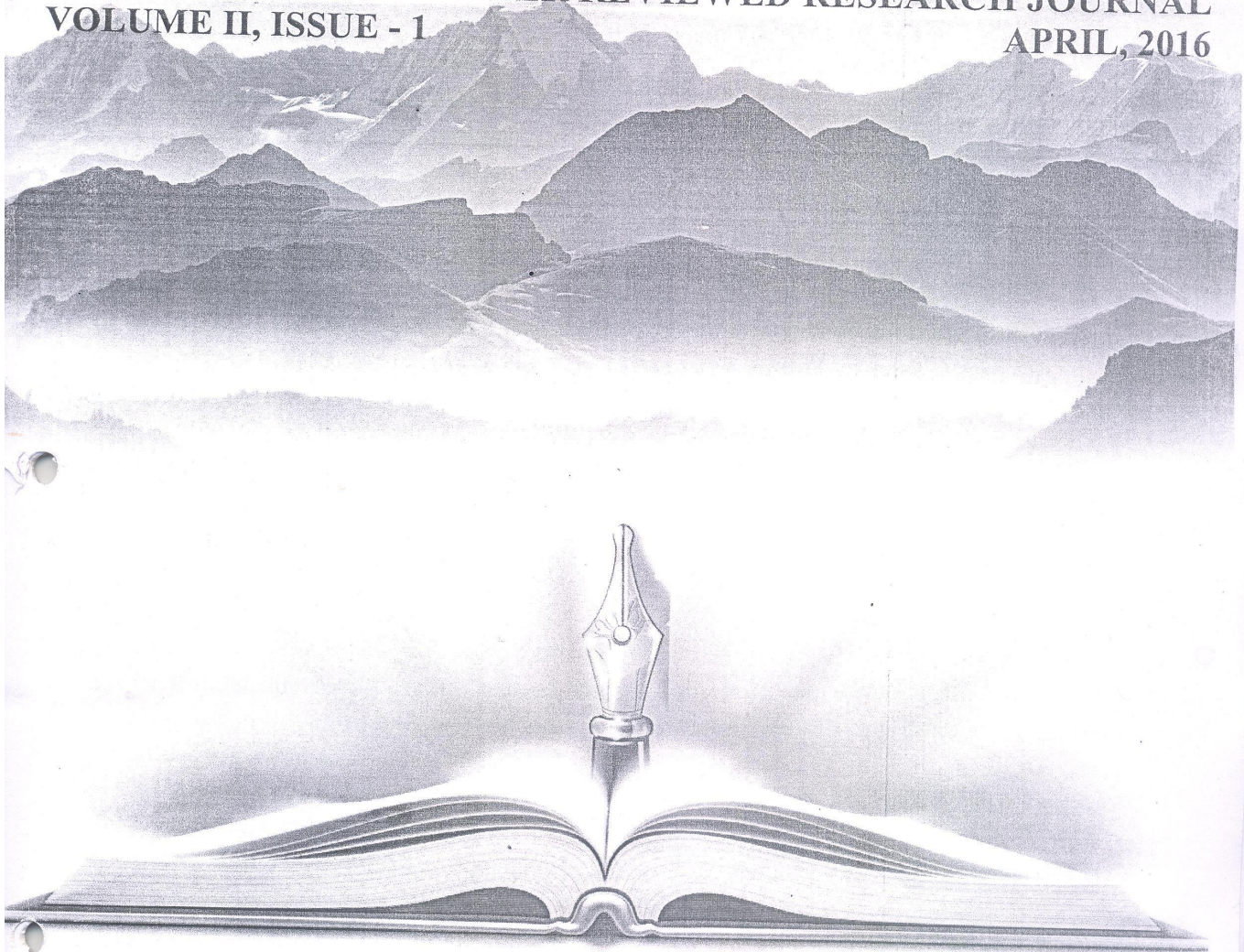


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APPLICABILITY OF SIX SIGMA PROJECTS IN SOCIAL SCIENCE WITH A CASE STUDY OF SOLID WASTE MANAGEMENT AT THE HOUSEHOLD LEVEL

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INTRODUCTION

Six Sigma is a problem- solving methodology that can be applied to any process to eliminate the root causes of defect (errors) and associated cost. Resource conservation and waste recycling are the accepted norms in the governance of cities all over the world. As all agrees there is nothing waste as such in the world, recycling is the only solution available for Solid Waste Management. Here, I like to equate the quality of waste management to the amount of waste that had been recycled. The first section of this paper gives a brief history of Six Sigma and explains different Six Sigma Methods. Section 2 deals with present scenario of SWM in urban area specially in Mumbai city, which is followed by section 3, in which we will examine the feasibility of Six Sigma methodology in SWM. Section 4 is a case study of DMAIC methodology in household SWM. This paper is expected to explain the steps in a brief manner.

1. SIX SIGMA

Motorola was the first large company to implement Six Sigma in 1986 to standardize the way the defects are counted. They developed much of the initial definition and also came up with a standard roadmap to use Six Sigma for problem solving to show a positive effect on bottom line improvement. Many large companies followed Motorola's lead. But, Jack Welch, CEO of GE was the man who finally pushed Six Sigma as a recognized process.

Defects per million parts (DPM) is the common measurement of defect level in Six Sigma. The term sigma is used as a scale for level of goodness or quality. Six Sigma means 3.4 defects out of million items. It has a strong emphasis on statistical analysis in design and customer oriented activities. It is a measurable characteristic of the process or its output that is not within the acceptable customer limit. Readymade Sigma tables are available. These tables help us to find the sigma of a system by finding the number of defects or percentage of defects.

Six Sigma projects follow two projects methodologies DMAIC and DMADV. DMAIC is used for projects aimed at improving an existing process. DMADV is used for projects aimed at creating new product or process. Managing the waste at house hold level is a process and since we want to improve

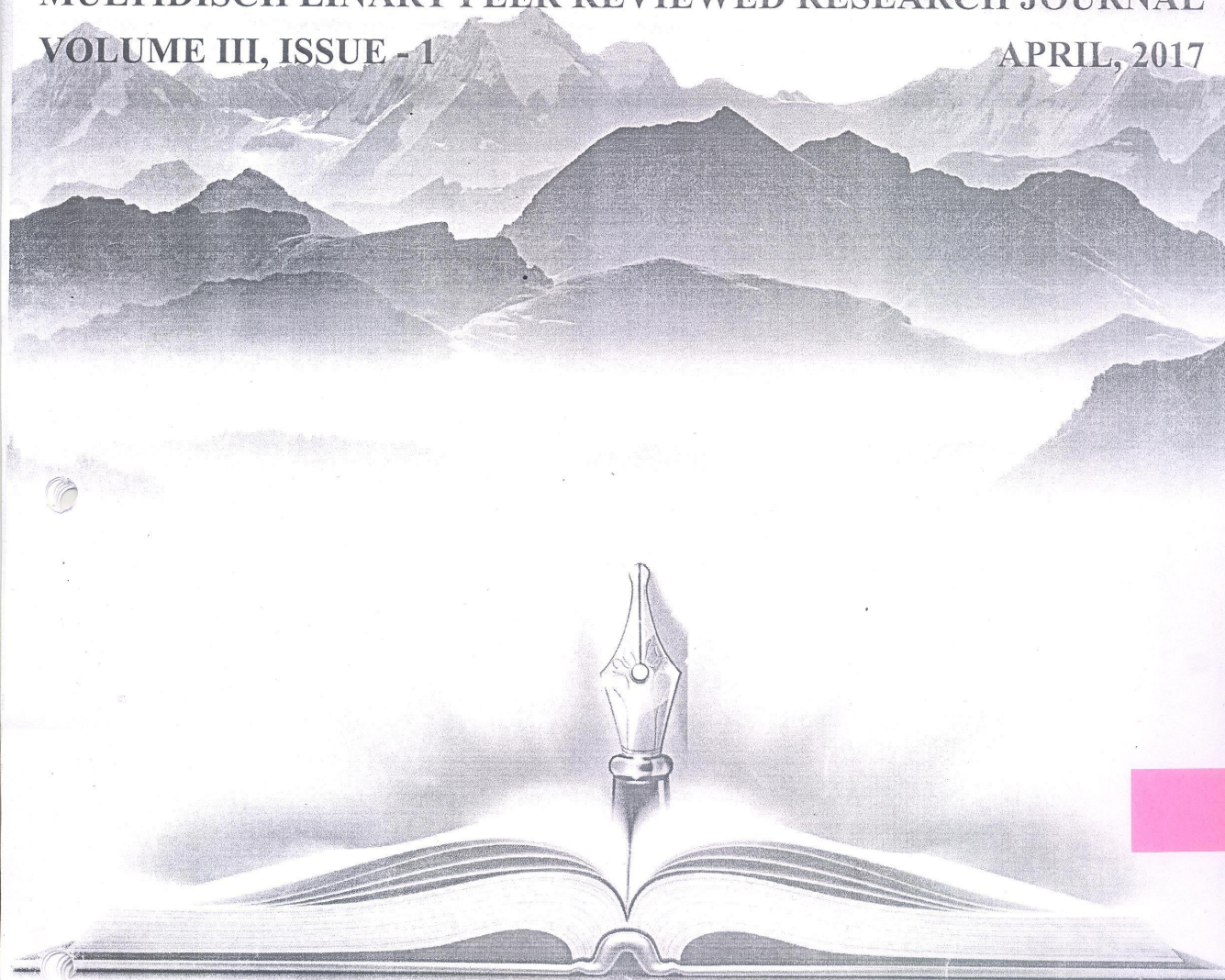
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INDIA'S PERCEPTION TOWARDS PRIVACY, SECURITY AND ONLINE TRANSACTIONS IN E-COMMERCE

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Introduction:

E-commerce or electronic commerce, deals with the buying and selling of goods and services, or the transmitting of funds or data, over an electronic platform, mainly the internet. The Web features that enhance the trustworthiness in e-commerce are (i) safeguard assurances (ii) marketer's reputation (iii) ease of navigation (iv) robust order of fulfillment (v) professionalism of website and (vi) use of state of art web pages design technology. First and most necessary step in establishing consumer trust is providing good security and privacy features. Privacy – the control over one's personal data – and security – the attempted access to data by unauthorized others – are two critical problems for both e-commerce consumers and sites alike. For consumers to visit or shop at a site or sites to function effectively both these features have to be considered. Security is very important in online shopping sites. Now a days, a huge amount is being purchased on the internet, because it's easier and more convenient. Almost anything can be bought online. The recent growth rate of e-commerce in India is far lagging behind than other developed countries. There are many big problems and challenges on the way of an online merchant. Factors like safety and security of online money transaction being the biggest problem along with others have curbed the smooth expansion of the online industry in the country. The home ministry has asked digital payment and e-commerce companies to beef up their cyber security mechanisms to prevent any attack from the virtual world in the wake of surge in digital payments triggered. Now, with India going towards a less-cash economy, major thrust for the government is to promote digital transactions, banking industry must make a robust infrastructure so that digital transactions are secured. E-commerce and online shopping in India is getting a noticeable growth as more usage of internet facilities, high educational standards, changing life style and economical growth of the country reasons in the demand of ecommerce techniques and tools. Versatile shopping experience and rapid development of transaction facilities is further boosting opportunities for the remaining market segments.

2. Literature Review

Many researches were conducted to investigate the relationship between trust indices like privacy and security and the marketer's trustworthiness. Various surveys were also held in order to examine the extent to which consumers are willing to provide personal information to electronic merchants. These surveys came to the conclusion that privacy and security concerns are the main impediment to shopping on the internet. The implications are that organizations those are successful must expend their resources and efforts to make sure that netizens concerns are adequately addressed.

3. Method of study

The purpose of this study was to find how serious the Indian consumers are about the privacy and security issues in online transactions. A 22-item questionnaire derived from privacy and security issues was developed. The survey was conducted on a crowd of working professionals who are netizens. The data used in the study came from 53 of 70 samples selected. The purpose of each question in the questionnaire was to give the online IT users the opportunity to express their concerns about security & privacy issues while performing online transactions.



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1

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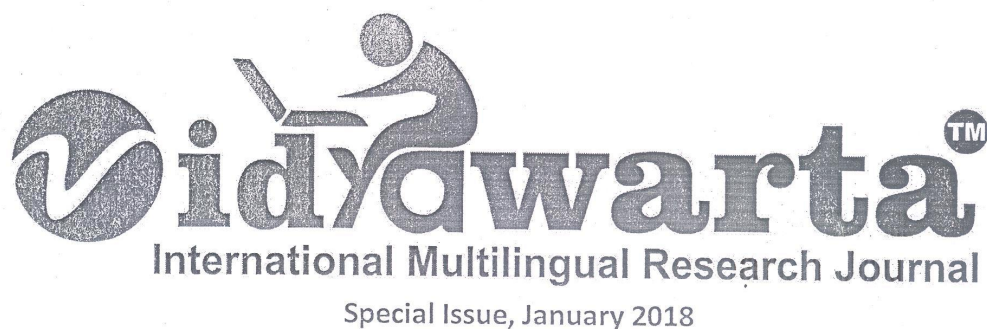
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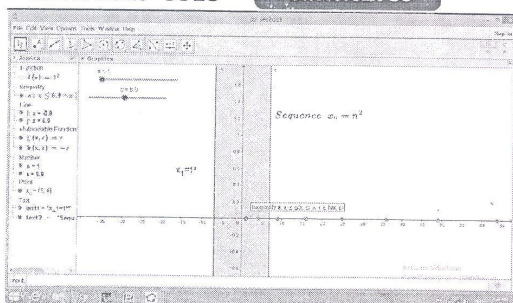


figure 2.2.2

3. Conclusion:

The subject like Mathematics is generally taught using chalk and talk method. But this method at times proves inadequate to visualize the abstract concepts of Mathematics. In such situations technology can be integrated to give the better insight in the subject. Computer Algebra System like GeoGebra can act as supplementary in classroom to make Mathematics more tangible to the students.

In the paper are presented interactive GeoGebra frames which can used to introduce the concept of Sequence in \mathbb{R} and convergence of the sequence. Though the convergence of a sequence is proved more vigorously in Mathematics but these GeoGebra frames will help students to get an intuitive idea about convergence of the sequence and hence help in better understanding of the $\varepsilon - n_0$ definition which students generally find it difficult to visualize and understand.

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Elementary Number Theory and Cryptography

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Abstract

In this paper, we discuss how Classical Elementary Number Theory is used in Cryptography. In the past, Number Theory was considered as purest of Mathematics. Results of Number Theory that were once considered as pure and merely intellectual have become essential because of the onset of computers. Also, Problems in Cryptography led to the questions, especially computational in Number Theory. This paper centers on this theme.

Key words: cryptanalysis, encryption, decryption, affine mapping, prime factorization, signature scheme, discrete logarithm.

Introduction

Cryptography is the study of sending messages in disguised form so that only the intended recipient can remove the disguise and read the message. A set up that is used for sending and receiving messages in disguised form is known as a cryptosystem. In this we illustrate how number theory is being used in