

Abstract Proceedings
on
International Conference on Recent Global Changes in
Multidisciplinary Concepts
ICRGCMC - 2021
16 & 17th April 2021

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Message

AERF aims to educate researchers for the future to build and maintain quality oriented research related to Engineering and other domains as well. We believe these researchers,, contribute to make a difference to their Colleges and Universities and to the world around them. In our endeavours, we draw upon reserves of goodwill among the quality oriented research, its reputation among researchers,, and a potential student, commitment is the key strength to AERF.

The future holds tremendous promise for our organization we look forward to being recognized as one of the premier research organization which meets the quality standards across the globe. To achieve this goal, the organization is following a three-pronged approach: connect, nurture, and grow. We will:

CONNECT proactively with the worlds of practice and policy, with academic work nationally and globally, with our research work, and with the local community.

NURTURE a high performance work environment by emphasizing and supporting a climate of autonomy, stretch, and team work.

GROW our capacity, but do so in a thoughtful and strategic manner, aiming to have an impact commensurate with our ambitions, and ensuring that we maintain and upgrade the quality of our people and our experience.

Dr. D. Sucharitha

Director – AERF

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Message

I hope this message finds you and your family in the best of health and spirits. It was nice to hear you have presented in National Conference. It was really a delight to hear that it has been fairing well in the field of Engineering Applications and Basic Sciences

International Conference on Recent Global Changes in Multidisciplinary Concepts addresses these issues through the seminar and exhibitions, bringing together representatives of all those involved at every fields of business, industry, academic, government and civil.

I must congratulate you on the attending and presenting research paper. The conference focuses on “**NATIONAL LEVEL CONFERENCE ON RECENT CHALLENGES IN ENGINEERING, SCIENCE AND TECHNOLOGY**”. This conference is going to address many issues. I wish all the delegates a successful techno career and take the privilege to welcome you all to this International Conference NCRCEST-2020. In this moment of celebration I congratulate one and all who involved in conference.

All the Best.

Dr. J.V. Rangeswara Reddy
Professor-KGRITM

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Message

“International Conference on Recent Global Changes in Multidisciplinary Concepts” addresses these issues through the seminar and presentations, bringing together representatives of all those involved at every fields of business, industry, academic, government and civil strata.

The national conference facilitates ideas, information and programs on a platform that encourages creative thinking and innovation in the fields mentioned in the theme of the program. The conference focuses on “**NATIONAL LEVEL CONFERENCE ON RECENT CHALLENGES IN ENGINEERING, SCIENCE AND TECHNOLOGY**” which is very relevant to the present day scenario. I congratulate the organizers, coordinators sponsoring members, participants of the National Conference on “**NATIONAL LEVEL CONFERENCE ON RECENT CHALLENGES IN ENGINEERING, SCIENCE AND TECHNOLOGY**” I am confident that the deliberations and the outcome of your efforts will raise public awareness about the role and value of the theme of the conference as a tool to promote economic, social and cultural development while addressing the complex issues on the agenda.

I wish all the members involved a successful program ahead

With best wishes.....

K.Govinda Reddy - Chairman
KGRITM

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Message

“Heights by great men reached and kept were not attained by a sudden flight, but they while their companions slept were toiling upward in the night”.

The meaning of the above stanza is self-evident, nothing comes from nothing, and nothing ever could. Success and achievements are commensurate with will power, hard work, grit, resourcefulness and single-minded approach.

KGR ITM understand the social relevance of research and its contribution in developing a body of knowledge and therefore gives immense importance to the research output. In order to encourage the researchers in various fields relating to Engineering KGR ITM is organising the national level conference in association with Anveshana Educational and Research Foundation with different contemporary themes on a regular basis. The focus here is on blend of academics & cutting edge research and innovation through inter-disciplinary activities.

A saying goes like this **“Ordinary things done in an extraordinary way make people great”.**

I hope that the deliberations in the Conference will help researchers from academia and industry and the Conference will provide a platform for initiating collaborative research projects.

I wish the Conference a fabulous success.

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**STRATEGIC ISSUES IN PHARMACEUTICAL INDUSTRY SUPPLY CHAIN
MANAGEMENT- A REVIEW**

Paper ID - 1011

L.PADMA

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HYDERABAD

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ABSTRACT

In the present context of a health-conscious society, management of pharmaceutical supply chains has become more complex because it involves the life-saving interest of human being and requires the participation of different stakeholders such as pharmaceutical manufacturers, wholesalers, distributors, customers, Hospitals, information service providers and regulatory agencies. Limited research is available in the area of pharmaceutical supply chain Management. This paper aims to find the gaps in the literature by reviewing research papers on different strategic issues of supply chain management in the pharmaceutical sector. As Supply Chain Management becomes one of the important aspects from manufacturing to ultimate or end user of product. The product should reach the destination on or before time otherwise a complicated issue will arise and may lead to death of the end user. So formulation of procedures to supply product plays a vital role. It, therefore, becomes important to understand the lacunae in supply chain management through various researchers' views.

Keywords: health-conscious, chain Management, pharmaceutical manufacturers

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STUDY ON PERFORMANCE OF GLASS FIBER REINFORCED
GEPOLYMER CONCRETE WITH COARSE AGGREGATES BY QUARRY
DUST AND CERAM SITE

Paper ID -1012

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Abstract: Demand for concrete as construction material is on the increase and so is the production of cement. The production of one ton of cement liberates about one ton of CO₂ to atmosphere. In order to address environmental effects associated with Portland cement, there is need to develop alternative binders to make concrete. Recent years have seen a great development in new types of inorganic cement binders called “geo-polymeric cement” This prompted its use in concrete, which improves the greenness of ordinary concrete. Efforts have been made to replace the cement based binder in the current fibre reinforced cement concrete with “geo-polymeric” binder resulting in Fiber Reinforced Geo-polymer Composites (FRGCs). The present work deals with study of fresh properties, strength and durability of fly ash based fiber reinforced geo-polymer concrete.

Keywords : Geo-polymer Composites (FRGCs), geo-polymeric cement, geo-polymer, CO₂ to atmosphere

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CAMPUS RECRUITMENT PROCESS FOLLOWED BY THE ORGANIZATIONS
- A STUDY

Paper ID 1013

SANAGAPATI VENU

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Prof. J.V.Rangeswara Reddy

Professor, KGR Institute of Technology & Management

Rampally (V), Keesara (M), Medchal (Dist.)

ABSTRACT

Since 1991, the business environment in India has been dynamic and continuously changing. Business organizations have been growing at very rapid pace and globalizing. Consequently, organizations are now looking for globally competitive workforce. Strategic recruitment is of vital importance in recruitment planning now a day. It found the usefulness of Generation approach in identifying the differences between the old generation and the young new Generation and the different needs and attitudes of both the generations. This gives an idea that the old recruitment practices might not be enough in today's competitive environment. The Rank and Yank approach shows just how intense the competition is in the corporate world today and the fact that this approach is so successful is astounding. Although the benefits of Internet recruiting exceed its drawbacks but even then it found that Internet recruiting is still more useful for computer related business sector. It would also conclude that despite all other recruitment testing methods Interviews still stand out as one of the best ways to identify and recruit the right person for your organization. These changing expectations and requirements have compelled the Indian industrial management to introduce changes in every sphere of human resource activity, including recruitment and selection.

KEY WORDS: Recruitment, Internet, Generation, Interview, Strategic recruitment

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IMPACT OF COVID-19 ANNOUNCEMENTS ON NIFTY STOCKS

Paper ID - 1014

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ABSTRACT

Nifty is down about 31% from its recent record high of 12,430 hit on 20.01.2020, and more than 90% of the companies hit their 52-week low in March. As many as 45 companies out of Nifty50 have hit their multi-year low amid the volatility caused by the outbreak of COVID-19 virus across the countries. Foreign institutional investors (FIIs) have alone sold out more than Rs 60,000 cr from the cash segment of the Indian equity market in the month of March 2020. Most of the companies which are part of the index are blue-chip names and are leaders of their respective sectors. With the recent fall seen in the markets, many of the blue-chip names are trading at multi-year lows. This study analyses the impact of Covid 19 related announcements on NIFTY index stocks and finds out the effect of important announcements made by WHO and Indian Government on the prices of stocks.

Keywords: Covid-19, NIFTY, Indian Equity Market, Stock Return

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OVERVIEW ON PHARMACEUTICAL SUPPLY CHAIN: A STEP TOWARDS
QUALITY SUPPLY PRACTICES

Paper Id - 1015

L.PADMA

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ABSTRACT

Increasing global cooperation, forward integration and a focus on core activities have led to the notion that firms are links in a networked supply chain. This tactical viewpoint has formed the challenge of coordinating successfully the entire supply chain, from upstream to downstream performance. While supply chains have existed ever since businesses have been planned to transport products and services to customers, the notion of their competitive advantage, and consequently supply chain management, is a relatively recent thinking in management. Although research interests in and the importance of Supply Chain Management are growing, scholarly materials remain scattered and disjointed, and no research has been directed towards a systematic identification of the core initiatives and constructs involved in supply chain Management. The main concern in any health system is delivering of medicine as a strategic product. In the present context of a health-conscious society, management of pharmaceutical supply chains has become more complex because it involves the life-saving interest of human being and requires the participation of different stakeholders such as pharmaceutical manufacturers, wholesalers, distributors, customers, information service providers and regulatory agencies. Limited research is available in the

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area of pharmaceutical supply chains. Pharmaceutical companies, a most important player of the drug supply chain, are subject to many risks. These risks interrupt the quantity and quality of supply of medicine and their delivery to the accurate place and customers on time. Thus, the purpose of this study is to develop a research framework that improves understanding and stimulates and facilitates researchers to undertake both theoretical and empirical investigation on the critical constructs of Supply Chain Management, and the exploration of their impacts on supply chain performance.

Keywords: Supply Chain Management, competitive advantage, regulatory agencies, stakeholders

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A STUDY ON EFFECTIVENESS OF RECRUITMENT ORGANIZATIONAL
SUPPORT IN ITES

Paper ID - 1016

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ABSTRACT

This study is basically to understand the effectiveness of the recruitment and its process and organizational support for the betterment of the knowledge. The effectiveness of recruitment has become increasingly popular as a measure for identifying the process of recruitment in the organization and as a tool for developing recruitment process. There is little empirical research that substantiates the efficacy of recruitment in this organization. Here the researchers have taken individual factors upon growing up various variables and tried to find the relationship between the demographic factors and the individual factors. The researchers have applied some of the statistical tools like Percentage Analysis, Regression, and Correlation.

Keywords: Effectiveness, Recruitment, Support, Knowledge

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A STUDY ON THE IMPACT OF COVID-19 ON MUTUAL FUND INVESTOR
BEHAVIOUR

Paper ID - 1017

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ABSTRACT

Mutual Fund companies are financial intermediaries providing financial services to small investors through mobilization of funds, when the investors invest in a mutual fund, they are buying shares or units of the mutual fund and become a shareholder of the fund. Mutual funds are one of the best investments ever created because they are very cost efficient and very easy to invest in. The outbreak of the highly infectious COVID-19 significantly disrupted human life. Measures to fight the pandemic included social distancing, self-isolation, shutting down of institutions and establishments, restricting modes of transport, and nation-wide lockdowns. The main aim of the study is to understand how the COVID-19 pandemic has impacted investment and financial decisions of individuals. An online survey was conducted to determine the impact of COVID- 19 on individuals' financial transactions and steps taken by the government to fight the pandemic. The relationship between the COVID-19 pandemic and change in investment decisions of individuals with respect to SIPs was studied.

Keywords: Investment Behaviour, SIPs, Bank Deposits, Household Income, Financial Crisis, COVID 19.

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ROLE OF NGO IN RURAL DEVELOPMENT AND IN COMPARISON WITH SHG-
A STUDY

Paper ID - 1018

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Abstract

In India, the extent of improvement isn't limited however extremely wide, as it incorporates the monetary advancement as well as the development on friendly front, personal satisfaction, strengthening, ladies and kid advancement, training and attention to its residents. The general investigation of the review uncovers that NGOs are extremely conspicuous in viable execution of government programs towards manageable country improvement through the outsider exercises in schooling, wellbeing, agribusiness, local area advancement, energy, climate, and waste, moral up bringing, youth strengthening and neediness lightening. The fundamental motivation behind this study was to explore the jobs of non-legislative associations in provincial region improvement.

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A STUDY ON GROWTH OF AUTOMOBILE INDUSTRY IN TELANGANA WITH
RESPECT TO FOUR WHEELERS

Paper ID -1019

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Director, AERF, Hyderabad

DR. SHIVARAMAN BALAMURUGAN IYER

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Abstract:

The automobile industry is one of the most important drivers of economic growth of India and one with high participation in global value chains. The growth of this sector has been on the back of strong government support which has helped it carve a unique path among the manufacturing sectors of India. The automobiles produced in the country uniquely cater to the demands of low- and middle-income groups of population which makes this sector stand out among the other automobile-producing countries. This chapter analyzes the roles of government policy, infrastructure, and other enabling factors in the expansion of the automobile and automotive component sectors of India. In 2017, India became the world's fourth largest automobile market, and the demand for Indian vehicles continues to grow in the domestic and international markets. To meet the future needs of customers (including the electrical vehicles) and stay ahead of competition, manufacturers are now catching up on upgradation, digitization, and automation. The chapter also analyzes India's national policy in light of these developments.

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BIOMASS UTILIZATION FOR GAS TURBINES AND ANALYSIS OF
PERFORMANCE

Paper Id: 1020

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India

Dr. S Chakardhar Goud

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Abstract:

Biomass is one of the most significant options to generate electric power from distributed renewable sources. This may be of particular interest in countries like Italy, due to the relatively large abundance of wood, coming directly from both the agricultural sector or from wood-based industrial sectors, and for the strict dependence on foreign fossil sources. In such a context, the availability of economically sustainable technologies is the key issue, as the optimal size of a single power plant may result to be in the low power range (100-500 kW) mainly reflecting the impact of the fuel logistic chain on system economics. In this range the possibility of combining heat deployment to power production is instrumental as it allows for having maximum exploitation of the fuel potential. Furthermore, flexibility to fuel type may also represent a powerful feature as it allows the use of available local fuel quantities which may even derive from residues of other processes. In this paper a technology based on an externally fired gas turbine fed by woody biomass is presented in the 100 kW power range. The multifuel prototype power plant which has been realized and experimentally demonstrated at the University of Rome Tor Vergata is described.

Keywords: Gas turbine, bio mass,

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**INVESTIGATING LIVER DISEASES ANALYSIS BY DEVELOPING COMPUTER
DIAGNOSTIC SYSTEM**

Paper ID -1022

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Associate Professor, Shri JJT University
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ABSTRACT: Liver disease is also a risk factor among Indians. Liver function compliance at any time helps to organize the proper circulation. In India, one in five people has liver disease. It is clear that by 2025 India could be transformed into a ‘World Capital for Liver Disease’. In this study, we present the mapping of data mining in different sectors of Informatics Health. The assessment of data mining methodology could in like manner used for finding the kind of Liver Disease using indisputable signs. Conclusion of liver contamination at fundamental stage is significant for better treatment. The therapeutic space contains heterogeneous information as content, figures and pictures that can be reasonably expelled to give different valuable restorative data.

Keywords: liver, data mining, web mining

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A NEW K-NEAREST NEIGHBORS CLASSIFIER FOR N-DIMENSIONAL
DATASETS USING MAP REDUCE

Paper ID:-1022

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Abstract:

The K-nearest neighbors (KNN) machine learning algorithm is a well-known non-parametric classification method. However, like other traditional data mining methods, applying it on big data comes with computational challenges. Indeed, KNN determines the class of a new sample based on the class of its nearest neighbors; however, identifying the neighbors in a large amount of data imposes a large computational cost so that it is no longer applicable by a single computing machine. One of the proposed techniques to make classification methods applicable on large datasets is pruning. LC-KNN is an improved KNN method which first clusters the data into some smaller partitions using the K-means clustering method; and then applies the KNN for each new sample on the partition which its center is the nearest one. However, because the clusters have different shapes and densities, selection of the appropriate cluster is a challenge. In this paper, an approach has been proposed to improve the pruning phase of the LC-KNN method by taking into account these factors. The proposed approach helps to choose a more appropriate cluster of data for looking for the neighbors, thus, increasing the classification accuracy. This topic is known as big data classification, in

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which standard data mining techniques normally fail to tackle such volume of data. In this contribution we propose a Map Reducebased approach for k-Nearest neighbor classification.

Keywords: K-nearest neighbors; KNN; classifier, classification.

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GOOD TEACHING PRACTICES IN ENGINEERING EDUCATION IN
TELANGANA

Paper ID : 1023

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Dr.Satkala

Asst. Prof, Shri. J.J.T.U

ABSTRACT

The concept of good teaching practices is used in engineering education to explore the understanding complexities of effective teaching practice, a clear observation on student activities and behavior while receiving the information (subject) and answering or interacting with the teacher in the activities or sessions, which allows teachers to make decisions about what to do in order to teach well. It is a type of expertise that is specific to the discipline in which it is applied, but is distinct from either disciplinary content knowledge, or general knowledge of pedagogy. The nature is yet to be researched specifically for the engineering discipline. In engineering, the study of the discipline and the practice of it are very different, raising questions about how the make-up of engineering, and how it reflects the nature of best practice in engineering teaching. In this paper an attempt is made towards an analysis of good teaching practices in engineering studies. A productive period of time spent together in one place with idea and encouragement.

Keywords :Engineering , English, Soft skills, teaching,

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STUDY AND REDUCING CRACK FORMATION IN SHEET METAL
COMPONENTS

Paper ID:-1024

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Professor, Department of Mechanical Engineering

Shri JYT University

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Abstract:

The punching of sheet metals is a significant industrial method for shaping mechanical components. Punching was meant as a remedy for the heavy industry for the development of holes on thick sheets. The correct choice of punch parameters influences the quality of the hole directly. Because the connexions between these process parameters are seldom analytical, the forming variable choice is based on a set of expensive test and error methods in a workshop floor. The numerical simulation is a valuable method for training engineers to assist with new and erratic procedures. This paper demonstrates the potential to use FE simulations to reduce the number of experiments required to facilitate an improved understanding of certain parameters of the punching processes. The objective is to research the clearance impact on the efficiency of the 8 mm LNE38 sheets. Clearances were analysed between punch and die from 0.2 % to 15% The impact of the gap-depression was also analysed on the propagation of crack and the findings were consistent with literature: good results for lacunae within the traditional ideal range and occurrence of burr for clearance of 15%. Keywords: Punching of thick sheet, Clearance, Finite element, Ductile damage

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THERMAL BARRIER COATINGS ON GAS TURBINE ENGINE BLADES AND
VANES

Paper ID:1025

RATHOD SUBASH

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Dr. S. CHAKRADHAR GOUD

Professor

Shri JJT University Rajasthan

Abstract:

In the thermal sections of the gas turbines, thermal barrier coatings are used to protect pales and vanes. It consists of a thick, porous layer of ceramic deposited on a metallic aluminium bonding coat in contact with the nickel-based superalloy substrate. They are intended to increase the life of components or the temperature and thus efficiency of the gas. In use, due to the sintering of the ceramic layer, binding coat oxidation and the inter diffusion processes with the substratum, the structure and composition of various layers create. As a result, the characteristics of each layer and the interfacial strength are affected. These evolutions in conjunction with the external stresses used may result in bonding, the formation of cracks at the bonding coat / ceramic interface and eventually the ceramic layer spreads. In addition to these endogenous modes of deterioration, environmental factors may exacerbate the degradation of the structure. This paper study previous studies and discusses future solutions by bringing current approaches into account.

Key words: Thermal barrier coatings, Materials used for barrier coatings, Efficiency of gas turbine.

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PHYSICAL EDUCATION ACTIVITIES

Paper ID -1027

Shankarappa.C

Physical education Director

sre manjunatha swamy frist gread college saraswathi nagara davanagere

Abstract :

In current occasions, Physical Education is quite possibly the most intriguing and dynamic subject. This subject has changed significantly during the most recent 50 years. It has extended in various regions from school to non-school setting and from school-matured kids to individuals, everything being equal. Prior, actual training was by and large comprehended as proactive tasks either in educational time table or some free hand works out, games, sports, dashing, swimming, and so on Assuming that we check out the Indian history of actual training after Independence, various plans were sent off by the Government of India for schools, where each understudy should partake in proactive tasks. We can observe the developing interest in games and sports exemplified by the wellness blast and the wellbeing development. Games get overall inclusion. In schools, understudies like games and different types of proactive tasks, which help to accomplish and keep up with their wellbeing and prosperity

Keywords : Physical Education, sports exemplified, fitness boom, wellness movement

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CONSUMERS' COMMITMENT FOR DIGITAL PAYMENTS: QUALITATIVE
ANALYSIS USING WORD CLOUD WITH R SOFTWARE

Paper Id - 1028

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Abstract

An initiative had been taken place to use data analytics for marketing research. Many research works have been using empirical tools for analyzing consumer behavior. In this study qualitative data collected through semi-structured interviews had been analyzed by using R software. Syuzhet and sentimentr packages have been used to analyze the qualitative data in this work. The results of the study show that consumers are having continuance intention towards digital payments but they are concerned about security of those transactions.

Keywords: Data analytics, consumer behavior, digital payments, marketing analytics, qualitative data.