



GOVERNMENT MOHINDRA COLLEGE PATIALA

(Affiliated to Punjabi University, Patiala)

NAAC ACCREDITED GRADE A+ CYCLE-I

NAAC REACCREDITED GRADE A (CGPA 3.86) CYCLE-II

AISHE CODE: C-22146

INTERNAL QUALITY ASSURANCE CELL (IQAC)

AMARJIT SINGH (PES-I)
Principal

LOVELEEN PARMAR
IQAC Coordinator

MOHAMMAD SOHAIL
IQAC Co-Coordinator

Contact:

Telephone: 0175-2321695

Website: <https://govtmohindracollege.in/>

email: gcmohindrapatiala@gmail.com



INTERNAL QUALITY ASSURANCE CELL

IQAC



**GOVERNMENT MOHINDRA
COLLEGE,
PATIALA**

Supporting Documents/Additional Information

3.3.1 Number of research papers published per teacher in the Journals notified on UGC website during the last five years

Table of Contents:

S.No.	Description	Page No.
Research papers in Journals		
2018	Current Eminence of Healthcare System with Prospects To E-Governance In India By Jasvinder Sidhu/Dr. Sanjay Tejasvee In International Journal For Research In Engineering Application And Management	7
	Comparison Of Numerical Techniques for The Solution of Boundary Value Problem by Nisu Jain and Shelly Arora in International Journal for Research In Engineering Application & Management	8
	Women Entrepreneurs: Problems and Challenges with Startup and Operational Business by Dr. Chitra Mishra In National Journal Of Multidisciplinary Research And Development	9
	Women Entrepreneurs: Local Support and Socio-Economic Barriers by Dr. Chitra Mishra in Research Review International Journal of Multidisciplinary	10-11
	Computational And Behavioral Analysis of A Parallel Set Of Fans Working As A Standby Unit For Power Plant System By Gunjan Sharma In International Journal For Research In Engineering Application & Management	12

	Semi-Markov Model for A Power Plant System Comprising of Three Low Pressure Boilers and Fans by Gunjan Sharma in International Journal of Research in Advent Technology	13
	Steady State Behavior of a Cold Standby System Consisting of Turbine, Boiler and Fans by Gunjan Sharma in IOSR Journal of Engineering	14
	Present Trends of Cyber Crimes Over E-Commerce and Their Solutions in India by Anupam Mishra in Journal of Emerging Technologies and Innovative Research	15
	A Study of a Parallel Fan Standby Redundant System Operating In A Power Plant By Gunjan Sharma In International Journal Of Advanced Scientific Research And Management	16
	Performance Analysis of A High-Pressure Boiler With Two Low Pressure Boilers: A Cold Standby System By Gunjan Sharma In International Journal Of Scientific Research And Reviews	17
	Dalit Literature: A Song of The Nightingale by SB Sharma In International Journal Of English Language, Literature In Humanities	18
	Spatial Patterns of Work Participation Among the Muslims in India: 2011 By Dr. Sukhpreet Singh In Scholarly Research Journal For Interdisciplinary Studies	19
	Social Media Changing Communication Patterns of Parents with Children by Jasleen Kaur Sethi And Nancy Devinder Kaur In Asian Resonance	20
	Social Media Changing Communication Patterns Of Parents With Children By Jasleen Kaur Sethi And Nancy Devinder Kaur In Asian Resonance	21
2019	First Record Of Astigmatid Mites (Acari: Sarcoptiformes) From Animal Carcasses Of Punjab (India) By Harwinder Kaur In JETIR	22
	Women Entrepreneurs: A Study Of Selected Districts Of Punjab By Dr. Chitra Mishra Journal Of Emerging Technologies And Innovative Research	23
	Trajectory Of Exploration Of Self In The Plays Of Eugene O Nell By SB Sharma In JETIR	24
	Impact Of EHR Technology Implementation on Physicians' Job Satisfaction By Navneet Kaur Bajwa/ Harjot Singh/ Kalyan Kumar In International Journal Of Applied Management And Technology	25-26
2020	Satisfaction Level Of Faculty Members Of State Run And Private Universities Of Punjab Related To Work Environment: A Comparative Study By Dr. Ramandeep Saini And Chanjyot Kaur In International Journal Of Mechanical And Production Engineering Research And Development (IJMPERD)	27-28

	Morphological And Cytogenetic Analysis of Different Cytotypes of Boerhaavia Diffusa L. And Their Evaluation for Biological Activity by Nisha Sharma in Advances In Traditional Medicine	29-30
	Morphological, Cytological, And Chemotypic Variation Of Essential Oils In Syzygium Cumini (L.) Skeels By Nisha Sharma In Analytical Chemistry Letters	31-32
	Studies Of Indoor Mite Fauna from Punjab (India) By Harwinder Kaur In Our Heritage	33
	Impact Of Numerical Technique On The Solution Of Boundary Value Problem By Nisu Jain In International Journal Of Scientific Research In Mathematical And Statistical Sciences	34-35
	Critical Success Factors in Electronic Health Records (EHR) Implementation: An Exploratory Study in North India by Dr. Navneet Kaur Gill, Dept. of Management	
	Interactive Parametric Approach for Quadratically Constrained Bi-Level Multi-Objective Quadratic Fractional Programming by Vandana Goyal In Journal Of Computational And Theoretical Nanoscience	36
2021	Exploring Resilience and Hardiness with Narrative Analysis Of Personal War Narratives Of War Heroes By Gurpreet Kaur Sandhu & Gurdarshan Singh Sandhu In Indian Journal Of Positive Psychology	37
	Nanoparticles Incorporating A Fluorescence Turn-On Reporter For Real-Time Drug Release Monitoring, A Chemoenhancer And A Stealth Agent: Poseidon's Trident Against Cancer By Taranpreet Kaur In Molecular Pharmaceutics	38
	Safety And Efficacy Of Pseudomonas Exopolymer In Sequestration Of Iron From Aqueous Environments By Taranpreet Kaur In Recent Advancements In Bioremediation Of Metal Contaminants	39
	A Literature Review Of Factors Affecting Employee Retention At Workplace By Taranpreet Kaur In The International Journal Of Analytical And Experimental Modal Analysis (IJAEMA)	40
	Parivarik Evem Stri Jiwan Ka Yatharth Tatha Maitrai Pushpa Ke Upnyas (पारिवारिक एवं स्त्री जीवन का यथार्थ तथा मैत्रीय पुष्पा के उपन्यास) By Dr. Sunita Arora In Bohal Shodh Manjusha (बोहल शोध मंजूषा)	41
	Determination Of the Volatile Composition In Essential Oil Of Azadirachta Indica A. Juss From Different Areas Of North Indian Plains By Gas Chromatography/Mass Spectrometry (GC/MS) By Nisha Sharma In Analytical Chemistry Letters	41

	Socio-Economic Profile of Women Entrepreneurs In The 21st Century By Dr. Chitra Mishra In International Journal Of All Research Education And Scientific Methods	42-43
	Trends And Pattern of Public Expenditure With Special Reference To Health Sector In Punjab By Anupam Mishra In International Journal Of All Research Education And Scientific Methods	44-45
	FGP Approach to Bi-Level Multi-Objective Quadratic Fractional Programming With Parametric Functions By Vandana Goyal In Advances In Mathematics: Scientific Journal	46
	Parametric Approach To Quadratically Constrained Multi-Level Multi-Objective Quadratic Fractional Programming By Vandana Goyal In OPSEARCH	47-48
	A Solution Procedure For Multi-Objective Fully Quadratic Fractional Optimization Model By Vandana Goyal In International Journal Of System Assurance Engineering And Management	49-50
	Algorithm For Bi-Level Multi-Objective Fully Quadratic Fractional Optimization Model with Fuzzy Parameters by Vandana Goyal In Journal Of Ambient Intelligence And Humanized Computing	51-52
	On Solving Bi-Level Multi-Objective Fully Quadratic Fractional Optimization Model with Fuzzy Demands by Vandana Goyal In International Journal Of Mathematical, Engineering And Management Sciences	53-54
2022	A Dialectical Perspective on Existential Crisis and Mental Health Crisis In Context Of Covid-19 Pandemic: A Phenomenological Study By Gurpreet Kaur Sandhu In International Journal Of Positive Existential Psychology	55-56
	Comparative Studies On Age And Growth Patterns Of Cultivated And Wild Catla Catla (Hamilton) By Lakhwinder Kaur And Onkar Singh Brraich In Indian Journal Of Experimental Biology	57-58
	Intra-Specific Variability in Anti-Diabetic Activity And UPLC Quantification Of Oleanolic Acid From Two Morphotypes And Three Cytotypes Of Achyranthes Aspera Nisha Sharma Journal Of Biologically Active Products From Nature	59
	Sangeet Mein Abhyas Ka Mhatva by Dr. Rai Bahadur Singh In Anhad Lok	60-61
	Status Of Women In Mathematics By Rachna Arora In Journal Of Emerging Technologies And Innovative Research	62
	Accuracy And Performance Enhancement Of Machine Learning System For IDS By Manju Bala And Dr Rajinder Singh Sodhi In Asian Journal Of Organic And Medicinal Chemistry	63

	Shaping Of Protagonist's Subjectivity In J.M Coetzee's Life and Times Of Michael K By Prof. Geeta In JETIR	64
	Sanjeev Ka Upneyas Sutardhaar: Dalit Samaaj Ka Yatharth by Dr. Davinder Kaur In The Journal Review Of Research (International Online Multidisciplinary Journal	65
	Public Service Delivery Through Sewa Kendras In Punjab: A Study Of Their Working In SAS Nagar District By Harmanpreet Singh In Bihar Journal Of Public Administration	66-67
2023	Relationship Between Good Governance and Right To Service By Harmanpreet Singh In Indian Journal Of Political Science	68-69
	Regulatory Governance In Higher Education In India: Challenges Before The Proposed Regulatory Framework Under NEP 2020 By Mohammad Sohail In University News- A Journal Of Association Of Indian Universities	70-71
	HRMAS-NMR And Simulation Study of The Self-Assembly Of Surfactants On Carbon Nanotubes By Raman Preet Singh And Taranpreet Kaur In Physical Chemistry Chemical Physics	72

2018

**Current Eminence of Healthcare System with prospects to e-Governance in India by
Jasvinder Sidhu/Dr. Sanjay Tejasvee in International Journal for Research in
Engineering application and Management**

Home Call For Paper Current Issue Editorial Board Contact us




Welcome to International Journal for Research in Engineering
Application & Management (IJREAM)

Received **Outstanding Journal Award 2022-23** instituted by the International Institute of organized Research (I2OR)



UGC Approved (2019) :: Peer-reviewed Journal :: An ISO 3297 : 2007 Certification :: ISSN : 2454-9150
Impact Factor 7.427



International Journal for Research in Engineering Application & Management (IJREAM)
ISSN : 2454-9150 Vol-04, Issue-07, Oct 2018

Current Eminence of Healthcare System with Prospects to e-Governance in India

**Jasvinder Sidhu, Research Scholar, Dept. of Engineering & Technology, Tanta University, Sri
Ganganagar (Raj.) - India, jassidhu_2000@yahoo.com**

**Dr. Sanjay Tejasvee, Assistant Professor, Dept. of Computer Applications, Govt. Engineering
College Bikaner (Raj.) - India, drsanjaytejasvee@gmail.com**

Abstract: As per the perception of e-Governance, today's condition of the healthcare system is very poor in India due to many reasons such as big geographical area, a huge population, less transportation, intake of non-nutritional food and variety of food habits etc. Overburdened and collapsing of healthcare services to citizen which are providing by Government Hospitals and healthcare centres are also the significant causes for the pitiable situation of healthcare system in current situation. In India, provision of low budget for healthcare improvement and less coordination of healthcare professionals also triggered a bad remark. India currently spends only a little over 1% of GDP on healthcare sector. By seeing the rapid growth of medical science and information and communication technologies (ICTs), there is burning requirement for propagation of knowledge and delivery of healthcare services by interoperability at small, intermediate and large healthcare centres by the application ICTs. This paper will try to explore the genuine current status of healthcare in India towards the prospects and constraints of e-Governance with depiction of some ongoing ventures as illustration those will be covering aspect of healthcare system and have the vision to provide better healthcare arrangements.

Keywords: e-Governance, GDP, Healthcare, ICTs, Interoperability, Propagation, and Ventures.

I. INTRODUCTION

Recently, the population growth is approximately 1.2% in India, which is a massive percentage. Healthcare field requires a large transformation to deliver high-quality medical and healthcare services to Indian citizens. However, 0.9% to 2-3% of GDP key initiative have been made by NRHM for designed appropriate of the rural healthcare system with respect of human resources availability, management, infrastructure at physical level, economical healthcare and participation of communities with the better use of ICTs. [1]

**Comparison Of Numerical Techniques For The Solution Of Boundary Value Problem
By Nisu Jain And Shelly Arora In International Journal For Research In Engineering
Application & Management**



Welcome to International Journal for Research in Engineering
Application & Management (IJREAM)



Received **Outstanding Journal Award 2022-23** instituted by the International Institute of organized Research (I2OR)



UGC APPROVED JOURNAL

UGC Approved (2019) :: Peer-reviewed Journal :: An ISO 3297 : 2007 Certification :: ISSN : 2454-9150
Impact Factor 7.427



International Journal for Research in Engineering Application & Management (IJREAM)

ISSN : 2454-9150 Vol-04, Issue-03, June 2018

**Comparison of Numerical Techniques for The
Solution of Boundary Value Problem**

Nisu Jain, Ph.D. Student, Department of Mathematics, Punjabi University Patiala, INDIA,
jainnisu@yahoo.co.in

Shelly Arora, Assistant Professor, Punjabi University Patiala, INDIA

Abstract: A comprehensive study of solution of boundary value problem is attempted in this study. The technique of orthogonal collocation method (OCM) and orthogonal collocation on finite elements (OCFE) are used to solve boundary value problem numerically and analytically using Laplace transformation. It has been concluded that to solve stiff boundary value problems analytically is very time consuming and difficult to solve. The results are obtained by MATLAB ODE 15s system solver software. Comparison is shown both in tabulated and graphical form for different values of parameter. Relative error is used to check the efficiency of the technique. 3-D graphs are used to specify the behaviour of solution for different values of parameter.

Keywords —Boundary value problems, collocation, Laplace, MATLAB ODE 15s, OCM, OCFE

I. INTRODUCTION

In the study of mathematical and scientific fields such as Geology (Modeling of Weather, Seismic wave detection), Astronomy (Celestial Mechanics), Physics (Fluid flow), Chemistry (Reaction rates), Biology (infectious diseases, genetic variation), ecology (population modeling, increase / decrease of population), economics (stock trends, interest rates, market equilibrium price changes) and various engineering applications (diffusion-dispersion, adsorption-desorption, Current Flow in Electric Circuits, Heat Dissipation in Solid Objects), the differential equations play a major role.

There are many types of differential equations such as

mathematical equations and mathematical techniques. A variety of mathematical models has been used for improvement of production, increase of profits and understanding of complicated processes by many industries.

Study of boundary value problems involves another important step that is the solution of the boundary value problem. Number of numerical techniques has been developed time to time to solve the different type of boundary value problems. Laplace transform [Cuomo et al. 2007; Davis 1985; Liao & Shiau 2000 and Zheng & gu 1996], Fourier transform [Jaiswal et al. 2011; Kumar et al. 2012 and Nur Muhammad et al. 2005], Homotopy perturbation method [He 2003 and Zheng 1996], Least

Women Entrepreneurs: Problems and Challenges with startup and operational business
by Dr. Chitra Mishra in National Journal of Multidisciplinary Research and
Development



National Journal of Multidisciplinary Research and Development

HOME EDITORIAL BOARD ARCHIVES INSTRUCTIONS INDEXING CONTACT US



[SUBMIT YOUR ARTICLE](#)
njmrd.research@gmail.com

ISSN: 2455-9040

Indexed Journal
Referred Journal
Peer Reviewed Journal

[Journal List](#)

[WhatsApp Enquiry](#)

CERTIFICATE

National Journal of Multidisciplinary Research and Development

National Journal of Multidisciplinary Research and Development
ISSN: 2455-9040

Impact Factor: RJIF 5.22
www.nationaljournals.com

Volume 3; Issue 1; January 2018; Page No. 1189-1193



Women entrepreneurs: Problems and challenges with startup and operational business

Chitra Sharma Mishra

Research Scholar, Department of Management, Punjab Technical University, Kapurthala, Punjab, India

Abstract

In the present time, Indian women are developed digitally and they are proving themselves as an astonishing character by their own nature, with this they are not only handling family and work together, but also by contributing to the economic growth of the nation. With the current enhanced level of education; they are replicating their strength in the startup and operational business circumstances. In a man subjugated world, now women entrepreneurs are blooming with their original and contemporary and resourceful proposals for booming startups and operational business to realizing their vision and ambitions. Women effectively dare the world and made their own individuality, even though numerous problems like family commitments and funding and subsidy matters, supervise the business activities etc. have to be faced. This study is an attempt to examine the involvement of women during startups and in between operational business economic progress, and to know the range of aspects accountable for promoting women to develop into entrepreneurs.

Keywords: women entrepreneurs, business start ups and during operational business problems and challenges

Introduction

Women characterized as a dominating human resource, today countries all through the world have recognized the strength of women which can be employed as a mediator of expansion and growth. So, with these women entrepreneurship is single way of accepting that. Women entrepreneurs not only generate innovative job prospects but also give society with various resolutions to organization, management and business problems. The enterprise fields is the witness of the ever increasing occurrence of women as entrepreneurs, over the last two decades has transformed the demographic features of trade and business and on the whole economic development in the nation. Though, the business or entrepreneurial world in our country like India is still subjugated by men. The main

continued existence of their ventures.

Women entrepreneurship in India is an emerging concept and very crucial for the economic growth of the country. Generally women have to bear lots of problems in starting and during the business, but major problem is the proper funding to their venture. However financial enclosure has been a key policy objective of India's financial structure since 2004 and ample of financial institutions offer assistance to women entrepreneurs for their original, pioneering and creative format of actions intended at skill development, so far as per the estimation to FICCI, just 26 per cent Indian women have a bank account and credit sanctioned to female accounts for only 7.3 per cent of the total credit in the Indian financial system. These minute figures propose a crying need for an

Women Entrepreneurs: Local Support and Socio-Economic Barriers by Dr. Chitra Mishra in Research Review International Journal of Multidisciplinary

RESEARCH REVIEW INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY

ABOUT ▾ CURRENT ARCHIVES FOR AUTHOR ▾ ABSTRACTING AND INDEXING PAST-ISSUES

About the Journal

RESEARCH REVIEW International Journal of Multidisciplinary (RRIJM) is an international Double-blind peer-reviewed [refereed] open access online journal. Too often a journal's decision to publish a paper is dominated by what the editor/s think is interesting and will gain greater readership-both of which are subjective judgments and lead to decisions which are frustrating and delay the publication of your work. RRIJM will rigorously peer-review your submissions and publish all papers that are judged to be technically sound. Judgments about the importance of any particular paper are then made after publication by the readership (who are the most qualified to determine what is of interest to them).

Most conventional journals publish papers from tightly defined subject areas, making it more difficult for readers from other disciplines to read them. RRIJM has no such barriers, which helps your research reach the entire scientific community.

- **Title:** RESEARCH REVIEW International Multidisciplinary Research Journal
- **ISSN:** 2455-3085 (Online)
- **Impact Factor:** 6.849
- **Crossref DOI:** [10.31305/rrijm](https://doi.org/10.31305/rrijm)
- **Frequency of Publication:** **Monthly** [12 issues per year]
- **Languages:** **English/Hindi/Gujarat** [Multiple Languages]
- **Accessibility:** **Open Access**
- **Peer Review Process:** Double Blind Peer Review Process
- **Subject:** Multidisciplinary
- **Plagiarism Checker:** Turnitin (License)
- **Publication Format:** Online
- **Contact No.:** +91- 99784 40833
- **Email:** editor@rrjournals.com
- **Old Website:** <https://old.rrjournals.com/>
- **New Website:** <https://rrjournals.com/>

Women Entrepreneurs: Locale Support and Socio Economic Barriers

^{*1}Chitra Sharma Mishra & ²Dr. Sukhmani Waraich

^{*1}Research Scholar, IKG-PTU, Kapurthala, Jalandhar (India)

²AP (Finance/HR) KCL-IMT, (Supervisor ID-11090101), IKG-PTU, Kapurthala, Jalandhar (India)

ARTICLE DETAILS

Article History

Published Online: 02 June 2018

Keywords

women entrepreneurs, involvement in entrepreneurship, socio economic support and barriers

*Corresponding Author

Email: mishrachitra76[at]gmail.com

ABSTRACT

Women are playing a vital role in the family, in society and in economy as well. They know actually how to balance the environment and work properly in the adverse situation. Only a push is required to justify their identity and sky is the limit. In this paper we go through the local and family support and the social economic conditions of women. We have taken the data of some working women who worked from their homes and have started their venture with little capital and successfully operating with proficiency with the adverse philosophy of the family and society and also facing different kind barriers and try to tackle accordingly.

1. Introduction

With the economic growth the place of women entrepreneur is also being identified and to endorse their role several steps are also being taken by government. Entrepreneurship in women is the recent phenomena and women are playing dual role as a home maker in the society and as an entrepreneur in the society. Women are encountered with particular problems like family accountability or so. Women have to overcome all these problems or barriers to enter in the business world and fetch the same openings like their counterpart. There is ever increasing participation of women in any business venture but conditionally the place of women is to be improved as working women and self employed women in the society. Nicholas and Victoria, (2010), for many grounds the position of women is to be reflected in the economic growth of any country. The particular research investigated enterprising movement along with scrutinized the inducements of women involvement in the

Syed Shah Alam, MohdFauziMohdJani, Nor Asiah Omar (May 2011) explored in Southern region in Malaysia the main issues that influence the achievement of women entrepreneurs. The outcome recommended that family assistance, societal knot and inner enthusiasm influence definitely and considerably to the positive outcome of women entrepreneurs in the tiny enterprises. It had also revealed that in the earlier period, women hardly ever endeavor into business undertaking not for the reason that of not having any interest however as the scarcity of openings. A review performed in the United Kingdom presumed that the space among men and women entrepreneurs in the area was finishing due to the broad openings that are being generated worldwide for women entrepreneurs to initiate fresh enterprises.

Not every women is thinking about to be a business women but still they depict a minority of all women entrepreneurs. Nicholas and Victoria, 2010; Nan and Maria, (2007). grouping of

Computational and behavioural analysis of a parallel set of fans working as a standby unit for power plant system by Gunjan Sharma in International Journal for Research in Engineering Application & Management



International Journal for Research in Engineering Application & Management (IJREAM)
ISSN : 2454-9150 Vol-04, Issue-03, June 2018

Computational and behavioural analysis of a parallel set of fans working as a standby unit for power plant system

Upasana Sharma, Associate Professor, Department of Statistics, Punjabi University, Patiala, usharma@pbi.ac.in

Gunjan Sharma, Research Scholar, Department of Statistics, Punjabi University, Patiala,

gunjansharma1816@yahoo.com

Abstract: The study deals with the power plant system which comprises one main boiler, two low pressure boilers acting as cold standby unit, one main set of fans: PA fan, ID fan and FD fan. In the original working plant, there is no provision of cold standby unit in case of failure occurs in the main set of fans. Considering the circumstance in accordance of making the system more efficient and economical, a parallel set of fans including one PA fan, one ID fan and one FD fan is provided to act as a cold standby unit for main set of fans. The computational analysis of this whole system with provision of parallel set of fans has been done in the present paper. It is being assumed that there is only single repairman available. Various measures of system effectiveness such as Mean time to system failure (MTSF), Expected Up-time of the system, Busy period of repairman, Expected No. of visits of repairman and Profit have been obtained using Semi Markov Process and Regenerative point Technique and are computed on the basis of real data. The graphical interpretation has also been done in order to bring out behavioural analysis of the system.

Keywords — Standby systems; semi Markov process; Regenerative point technique.

I. INTRODUCTION

The field of reliability engineering is growing at a fast pace in today's era. More and more reliable as well as efficient systems are needed in order to match up the requirement of the growing industries. Therefore, it is necessary to study and develop reliability models for the systems being used in any kind of firm or industry. The electricity plays as vital role in the growth of any industry. Any firm can take out its smooth manufacturing or functioning if and only if there is surplus amount of power supply to its machines or systems. The literature of reliability holds innumerable studies

become operative when failure occurs in the main boiler. Second, a parallel set of fans which work together whenever failure occurs in any of the main set of fans. When failure occurs in any of the main set of fans, the other two fans are also switched off and the parallel set of fans which is acting as a standby unit comes into operation. It is being assumed that there is single repairman facility available. The computational analysis of the model has been done by evaluating various measures of system effectiveness such as Mean time to system failure (MTSF), Expected uptime of the system, busy period of repairman

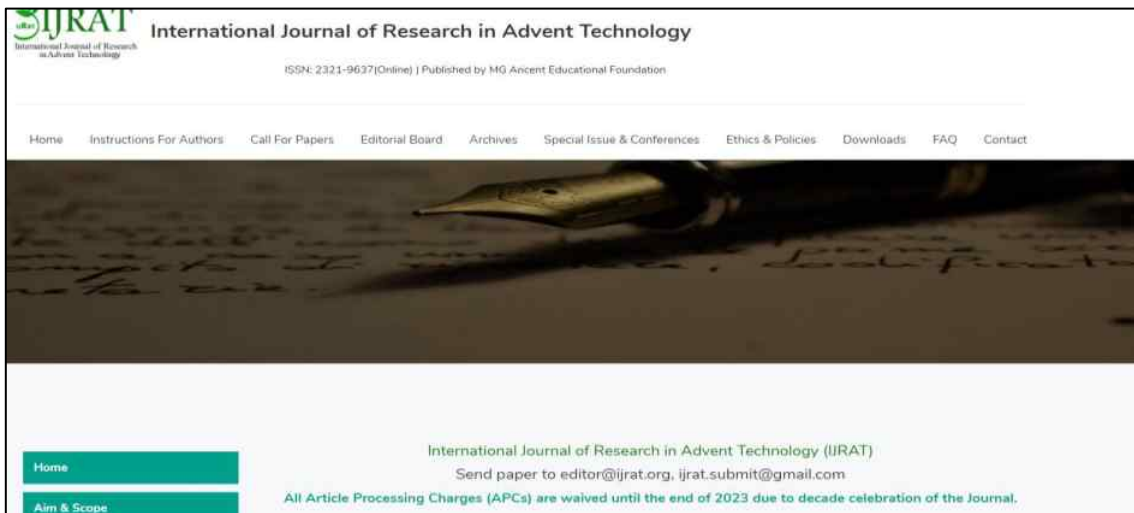
Home | Call For Paper | Current Issue | Editorial Board | Contact Us

>Welcome to International Journal for Research in Engineering Application & Management (IJREAM)

Received **Outstanding Journal Award 2022-23** instituted by the International Institute of organized Research (I2OR)

UGC Approved (2019) :: Peer-reviewed Journal :: An ISO 3297 : 2007 Certification :: ISSN : 2454-9150
Impact Factor 7.427

Semi-markov model for a power plant system comprising of three low pressure boilers and fans by Gunjan Sharma in International Journal of Research in Advent Technology



International Journal of Research in Advent Technology, Vol.6, No.7, July 2018

E-ISSN: 2321-9637

Available online at www.ijrat.org

Semi-markov model for a power plant system comprising of three low pressure boilers and fans

Upasana Sharma*¹, Gunjan Sharma*²

**Department of Statistics, Punjabi University, Patiala*

¹usharma@pbi.ac.in

²gunjansharma1816@yahoo.com

Abstract- A semi markov model has been developed in the present paper for a power plant system comprising of three low pressure boilers and fans. The present paper deals with the system involving one main boiler, a standby redundant unit of three low pressure and three primary fans: PA fan, FD fan and ID fan. The cold standby redundant system involves three low pressure boilers which operate together in order to keep whole system operating whenever failure occurs in the primary boiler. The ability of doing job of three low pressure boilers is equivalent to that of primary boiler. All low pressure boilers start their operation simultaneously whenever failure occurs in the primary boiler. The facility for repair is available based on FCFS (First-cum-First serve) and there is only one repairman available to do the desired job. The reliability and profit analysis has been done for the present model. Various parameters of system effectiveness for the model have been computed using Semi Markov process and Regenerative point technique. Graphical interpretation has also been done to bring out the analysis better.

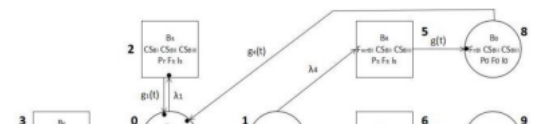
Keywords- Standby systems; Semi Markov process; Regenerative point technique.

1. INTRODUCTION

The aim of reliability is to make a system more efficient and operating as long as it can. The reliability of a system is defined as the capacity of a system to perform its function for a specified period of time under stated conditions. The literature of reliability is rich with studies consisting of primary unit with identical standby units [1-7] but it still lacks reliability models based on real life data for systems related to power plant. Singh and Taneja [6] have discussed reliability and cost-benefit analysis of a power plant comprising two gas and one steam turbine with

2. MODEL DESCRIPTION


A state transition diagram in fig. 1 shows various transitions of the system. The epochs of entry into states 0, 1, 8, 9 and 10 are regenerative points and thus these are regenerative states. The states 2, 3, 4, 5, 6 and 7 are failed states.



Steady State Behaviour of a Cold Standby System Consisting of Turbine, Boiler and Fans by Gunjan Sharma in IOSR Journal of Engineering

IOSR Journal of Engineering (IOSR-JEN)

About | List of Topics | Call For Paper | Global Statistics



Executive Editor	: Dr. Edward Thomas, USA
e-ISSN	: 2250-3021
p-ISSN	: 2278-8719
Publication Frequency	: 12 Issue per Year
Journal	: Peer reviewed Refereed
Publisher	: IOSR & IQSR Publisher
Paper Submission id	: jen@iosrmail.org



IOSR Journal of Engineering is published by the International organization of Scientific Research (IOSR) with 12 Issues per year. IOSR-JEN is online open access journal that provides rapid publication (monthly) of articles in all areas of the subject such as: civil, mechanical, chemical, electronic and computer engineering as well as production and information technology. The Journal welcomes the submission of manuscripts that meet the general criteria of significance and scientific excellence.

IOSR Journal of Engineering (IOSRJEN)
ISSN (e): 2250-3021, ISSN (p): 2278-8719
Vol. 08, Issue 8 (August. 2018), ||V (I) || 51-57

www.iosrjen.org

Steady State Behaviour of a Cold Standby System Consisting of Turbine, Boiler and Fans

Upasana Sharma*¹, Gunjan Sharma*²
* Department Of Statistics, Punjabi University, Patiala
Corresponding Author: Upasana Sharma*¹

Abstract: Electricity plays a vital role in any industrial engineering system. The power plant system in any industry serves as a backbone to it. The paper deals with the steady state behaviour of a cold standby system operating in a power plant system. The system comprises of a turbine, a high pressure boiler, a cold standby unit: three low pressure boilers and three fans: PA fan, FD fan and ID fan. A cold standby unit which comprises of three low pressure boilers acts as a redundant system for main high pressure boiler. The analysis has been done based on the real data. There is only one technician available to do the desired job of repair or replacement as per requirement of the failure. Various parameters for effectiveness of the system have been computed using Semi Markov process and regenerative point technique. Graphical study along with interpretation has also been done to study the behaviour of the reliability and cost benefit analysis of the present study.

Keywords: Standby systems; Semi Markov process; Regenerative point technique.

Date of Submission: 20-07-2018

Date of acceptance: 04-08-2018

I. INTRODUCTION

In Industrial engineering systems, electric supply plays a major role in keep the systems running. More and more industries are installing their own power plants within the firm as it is more economical and it makes the manufacturing process more efficient. Our study deals with the study of power plant installed at Bunge Pvt. Ltd., Rajpura (Punjab), India. The study is based on the real data provided by the system. The literature of reliability holds numerous studies regarding standby systems, identical units, dissimilar units, etc. under different circumstances. Researchers [1-7] have contributed much by studying reliability and various parameters of the industrial systems. Singh and Saini [5] discussed the computational analysis of parameters affecting economy of one gas and one steam turbine system with scheduled inspection. In it, they have developed a model considering variation in demand and power production capacity for a system comprising one gas and one stream turbine. But there is still lack of studies related reliability analysis of power plant engineering systems. Our aim is to fill this gap.

The study involves the reliability and profit evaluation of a power plant system. The units of a power plant system taken into consideration in the present paper are: Turbine, Main Boiler (high pressure boiler), three low pressure boilers acting as redundant system for main boiler, three fans: PA (Primary Air) fan, FD (Force Draught fan) and ID (Induced Draft) fan. Whenever failure occurs in high pressure boiler, all three low pressure boilers start operating altogether as the capacity of all low pressure boilers to bring out work is equivalent to the

Present Trends of Cyber Crimes over E-commerce and their solutions in India by Anupam Mishra in Journal of Emerging Technologies and Innovative Research

 JETIR.ORG

[Home](#) [About Jetir](#) [Editorial / RMS](#) [For Author](#) [Archive](#) [Contact Us](#)

[Submit Paper Online](#)

Journal of Emerging Technologies and Innovative Research | An International Open Access, Peer-reviewed, Refereed Journal | ISSN: 2349-5162 | Impact factor 7.95
Calculate by Google and Semantic Scholar | UGC Approved Journal No 63975 | ESTD Year : 2014 | Email: editor@jetir.org

About JETIR (Peer-Reviewed, Refereed, Open Access & Indexed)

Scholarly Open Access Research Journal, Peer-Reviewed, Refereed Journals, Impact Factor 7.95 (Calculate By Google Scholar and Semantic Scholar | AI-Powered Research Tool), Multidisciplinary, Monthly, Multilanguage, Indexing In All Major Database & Metadata, Citation Generator, Digital Object Identifier(DOI), UGC Approved Journal No 63975, Publication Guidelines : COPE Guidelines, Online and Print With Hard Copy ISSN Approved Journal, Low Publication fees 1500 INR for Indian author & 55\$ for Foreign International Author.

© 2018 JETIR December 2018, Volume 5, Issue 12

www.jetir.org (ISSN-2349-5162)

Present trends of Cyber Crimes over E-Commerce and their solutions in India

*Astt.Prof. Anupam Mishra, Dept.of Management, Govt.Mohindra College, Patiala, Pb.

**Ms.Chinky Dhiman, Student, Dept.of Commerce, Govt. Mohindra College, Patiala, Pb.

Abstract:

With the evolution of the Internet, along came another revolution of crime where the perpetrators commit acts of crime and wrongdoing on the World Wide Web. Internet crime takes many faces and is committed in diverse fashions. The number of users and their diversity in their makeup has exposed the Internet to everyone. Some criminals in the Internet have grown up understanding this superhighway of information, unlike the older generation of users. This is why Internet crime has now become a growing problem. Some crimes committed on the Internet have been exposed to the world and some remain a mystery up until they are perpetrated against someone or some company Cyber crime always involves some degree of infringement on the privacy of others or damage to computer-based property such as files, web pages or software. This paper is completely focused on cyber crime issue, trends and problem faced by Indian users and how cyber crimes can be minimized by formulating effective cyber crime laws in India. The paper also includes Indian cybercrime Statistics, cyber crime cells all over India and many more latest news. National level agencies can develop security guidelines and policy to prevent and safeguard of internet users from cyber crimes.

Keywords: E-commerce, Internet, Cyber world, Cyber crime, Cyber laws, Indian cybercrime Statistics, Cyber cells in India.

INTRODUCTION:

These days computer and internet becomes very common and necessary for our daily life. Back in 1990, less than 1,00,000 people were able access Internet worldwide. Now around 2,405,518,376 people are hooked up to surf the net around the globe. The present time of fast computing brings a new world known as

A study of a parallel fan standby redundant system operating in a power plant by Gunjan Sharma in International Journal of Advanced Scientific Research and Management



International Journal of Advanced Scientific Research and Management, Volume 3 Issue 8, Aug 2018

www.ijasrm.com

ISSN 2455-6378

A study of a parallel fan standby redundant system operating in a power plant

Upasana Sharma¹, Gunjan Sharma²

Department of Statistics, Punjabi University,
Patiala, Punjab, India

Abstract

The study deals with the reliability and profit evaluation of a two unit parallel fan standby redundant system operating in a power plant system. The present paper deals with a subsystem of a power plant system which consists of fans: PA (Primary Air) fan, FD (Forced Draft) fan and ID (Induced Draft) fan. A standby redundant parallel system of fans is provided to increase the efficiency of the power plant system. Whenever failure occurs in any of the primary set of fans, the standby redundant set of fans attached parallel comes into operation in order to pursue unhindered working of power plant system. There is a single repairman facility available. Various measures of system effectiveness such as MTSF, Availability, and Profit etc. have been computed for the model. Graphical study with their interpretation has also been done for the present study.

Keywords— Standby systems, Semi Markov process, Regenerative point technique.

1 Introduction

Redundancy is the technique of achieving higher reliability or it can be called as a backup system

set gets switched off and the cold standby unit comes into operation in order to continue the working of power plant system. The system completely shuts down when failure occurs in any of the fan in main as well as in any of the fan in cold standby unit. There is single repairman available to do the required job. The job is done on First-cum-First-serve (FCFS) basis. Various measures of system effectiveness have been computed considering the particular case. Also, the graphical study has been done for the model.

2 Notations

λ_i	Constant failure rate of main PA/FD/ID fan ($i = 1,2,3$)
λ_j	Constant failure rate of cold standby PA/FD/ID fan ($j = 4,5,6$)
$g_i(t)/G_i(t)$	pdf/ cdf of repair time of main PA/FD/ID fan ($i = 1,2,3$)
$g_j(t)/G_j(t)$	pdf/ cdf of repair time of cold standby PA/FD/ID fan ($j = 4,5,6$)
$PA_0/ID_0/FD_0$	Main PA/ FD/ ID fan is in operative state
$CS_P/CS_F/CS_I$	PA/ FD/ ID fan is in cold standby state

Performance analysis of a High-Pressure boiler with two low pressure boilers: A cold standby system by Gunjan Sharma in International Journal of Scientific Research and Reviews

International Journal of Scientific Research and Reviews ISSN:2279-0543
Welcome to IJSRR, Volume 12, Issue 2, April-June 2023 P

- ▶ Home
- ▶ About IJSRR
- ▶ Indexing & Abstracting
- ▶ Editorial Board
- ▶ Become Reviewer
- ▶ Membership
- ▶ Submit Manuscript
- ▶ Instruction To Author
- ▶ Review Process
- ▶ Downloads
- ▶ Contact Us
- ▶ Current Issue
- ▶ Past Issues
- ▶ Conferences/ Issues

IJSRR is now member of CrossRef Content Registration (doi Prefix: 10.37794)
Volume 12, Issue 3, July-September 2023

International Journal of Scientific Research and Reviews (IJSRR) is an online Open Access Journal published by CENTRE OF SCIENTIFIC INNOVATION AND RESEARCH FOUNDATION and IJSRR is Open Peer Reviewed and Quarterly Published research journal that publishes articles in the field of **Science, Commerce & Arts**.

Our mission is to advance research by working to develop and maintain competence, ethics and integrity and the highest professional standards in the specialty for the benefit of the public. The Faculty seeks, through its activities, to bring about an improvement in research of the public.

IJSRR serves an intellectual audience that is interested in the latest research coming out of universities and industries around the world. The journal publishes research developments and disseminates them to an international audience.

The journal welcomes publications of high quality papers. Original research papers, reviews and high quality technical notes are invited for publications. All manuscripts are pre-reviewed by the editorial review committee. Contributions must be original, not previously or simultaneously published elsewhere, and are critically reviewed before they are published. Papers, which must be written in English, should have sound grammar and proper terminologies. The author will be solely responsible for plagiarism issue. Article will be removed from the publication if malpractice/Plagiarism is discovered at any time even after the publication.



Sharma Upasana et al, IJSRR 2018, 7(3), 694-703

Research article Available online www.ijsrr.org ISSN: 2279-0543

International Journal of Scientific Research and Reviews

Performance Analysis of a High Pressure Boiler with Two Low Pressure Boilers: A Cold Standby System

Sharma Upasana and Sharma Gunjan

Department of Statistics, Punjabi University, Patiala
Email; usharma@pbi.ac.in, gunjansharma1816@yahoo.com

ABSTRACT

Boiler is an important component of a power plant system. The present paper deals with the performance analysis of a high pressure boiler with two low pressure boilers which is a cold standby unit operating in a power plant system. The system comprises of one main high pressure boiler, two low pressure cold standby boilers, one PA fan, one FD fan and one ID fan. The cold standby unit consists of two low pressure boilers and their capacity to bring out job is equivalent to that of one main high pressure boiler. Both low pressure boilers start their function simultaneously whenever failure occurs in the main boiler. There is single repairman available to do the job. The repair is done instantaneous. System effectiveness measures are evaluated and the profit analysis using Semi Markov process and Regenerative point technique is done for the system in this paper. Graphical study has also been done for the system.

KEYWORDS: Standby systems; Semi Markov process; Regenerative point technique.

Dalit literature: A Song of the Nightingale by SB Sharma in International Journal of English Language, Literature in Humanities

SMART MOVES JOURNAL IJELLH

[About](#) ▾ [Archives](#) [Editorial Team](#) [For Authors](#) ▾ [Conference Proceedings](#) [Publish your Book](#) [Policy](#) ▾

About the Journal

SMART MOVES JOURNAL IJELLH is a distinguished peer-reviewed and open-access academic journal dedicated to the fields of English Language, Literature, and Linguistics. Renowned for its commitment to excellence, IJELLH offers a platform for scholars and researchers to disseminate their cutting-edge research to a global audience.

Key Information:

Peer-Reviewed and Open Access: SMART MOVES JOURNAL IJELLH upholds rigorous academic standards through a robust peer-review process. It provides free and open access to its scholarly content, ensuring that knowledge is easily accessible to all.

MLA Directory of Periodicals: IJELLH is indexed in the prestigious MLA (Modern Language Association) Directory of Periodicals, reaffirming its status as a reputable and recognized publication within the academic community.

New ISSN: We are pleased to announce that SMART MOVES JOURNAL IJELLH has been assigned a new Online ISSN: 2582-3574 and Print ISSN: 2582-4406, signifying our dedication to staying current with evolving standards in academic publishing.

Publisher: The journal is proudly published by SMART MOVES Publications, headquartered in Bhopal, India. Our commitment to promoting quality research and scholarship has been unwavering since our inception.

Transition from IJELLH: Previously, the journal held the ISSN 2321-7065 under the title International Journal of English Language, Literature in Humanities (IJELLH). This ISSN was valid from June 2013 until November 2019. As of November

Spatial Patterns of Work Participation Among the Muslims in India: 2011 by Dr. Sukhpreet Singh in Scholarly Research Journal for Interdisciplinary Studies

Scholarly Research Journal for Interdisciplinary Studies,
Online ISSN 2278-8808, SJIF 2016 = 6.17, www.srjis.com
UGC Approved Sr. No.49366, NOU:UGC 2017, Vol. 4/37
<http://doi.org/10.21922/srjis.v4i37.10690>



SPATIAL PATTERNS OF WORK PARTICIPATION AMONG THE MUSLIMS IN INDIA: 2011

Sukhpreet Singh

Assistant Prof. Government Mohindra College, Panala, Punjab.

Abstract

Work participation is a very crucial indicator for understanding the economic contribution of various sections and communities of the society. The work participation rate plays an important role in the eradication of poverty and unemployment. The present paper tries to explore the reasons behind the low work participation among the Muslims in India. The reason behind the low work participation among the Muslims, is the overall low status of Muslim women which also leads to low work participation among the Muslim females. In very sorry state of affair that more than three-fourth Muslim women are not participation in work which gives serious blow to the work participation of entire community.

Keywords: work participation, Muslims and religious minorities

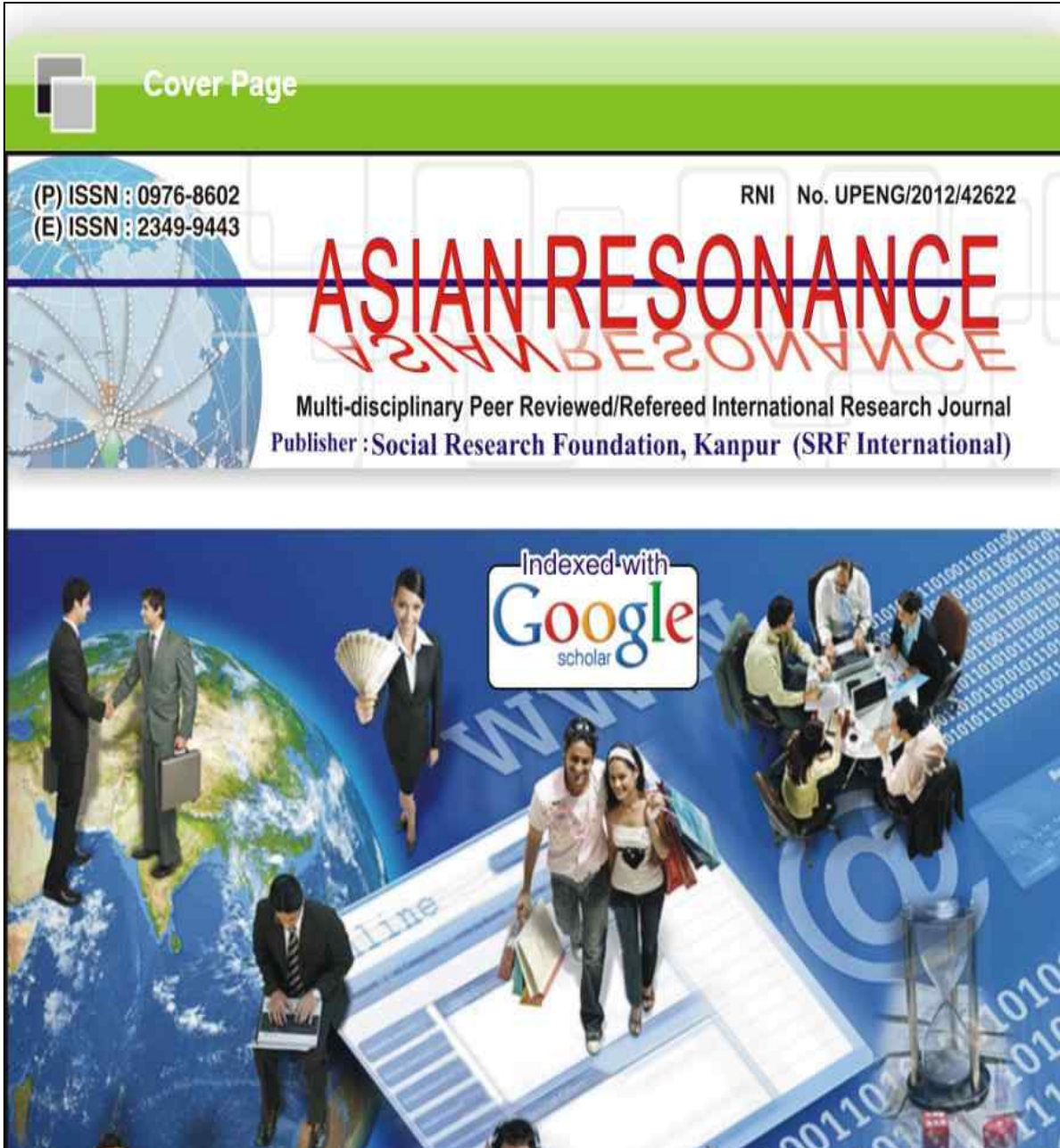


Scholarly Research Journal's is licensed Based on a work at www.srjis.com

Introduction:

According to Census of India, work participation rate is defined as the percentage of total workers, including main and marginal workers, to the total population. Census conveys that work involves not only actual work but also includes an effective supervision and direction of work. It also includes part-time help or unpaid work on farm, family enterprise or in any other economic activity. It also includes cultivation or milk production even solely for domestic consumption. Any person involving in such activities with some economic productivity, with or may be without wage or profit are called workers. The reference period for determining a person as worker and non-worker is one year preceding the date of enumeration. The census classifies workers into two groups namely, main workers and marginal workers. Main workers are those who worked and engaged in economically productive activity for major part of the year i.e. at least 6 months (183 days) and more in the reference period, whereas marginal workers are those who worked less than 6 months or may

Social media changing communication patterns of parents with children by Jasleen Kaur Sethi and Nancy Devinder Kaur in Asian Resonance



Social media changing communication patterns of parents with children by Jasleen Kaur Sethi and Nancy Devinder Kaur in Asian Resonance

P: ISSN No. 0976-8602

RNI No. UPENG/2012/42622

VOL.-7, ISSUE-3, July-2018

E: ISSN No. 2349-9443

Asian Resonance

Social Media Changing Communication Patterns of Parents with Children

Abstract

Social media is opening doors for the Baby Boom Generation and the Generation X to experience communication in a new way. It is removing the physical and time constraints, enabling people to interact anytime and anywhere. It helps parents to keep a track of their children's online life, be a part of it and also broaden their own social life. However, what is needed to figure out is that how this life of virtual reality on social media is affecting the relationship parents have with their children.

The effects of technological communication on in-person communication between parents and children in a household were studied by the researcher. As per the results gathered from the survey of 50 couples, the researcher concluded that parents feel that social media and the new ways to communicate has negatively affected their relationship with their children.

Keywords: Social Media, Parents and Children, Offline And Online Relationships, Parent- Children Relationships, Family Relationships.

Introduction

Bornstein & Sawyer and Parke & Buriel (2006) said that, "family, like the human body, is truly a whole consisting of interrelated parts, each of which affects and is affected by every other part, and each of which contributes to the functioning of the whole" (as cited in Sigelman and Rider, 2003, p. 480).

With the penetration of social media deep into the family, the relationships are bound to be affected. However, what is important is that the impact and type of affect of the various social media applications and sites must be studied. Perse (2001) stated "There is consensus, for the most part, among scholars that media do have some impact on various dimensions of social life and structure" (p.6).

The social media is simultaneously helping in bridging the gaps of physical boundaries and in helping the parents to keep a track of their children's online activities. One negative impact of social media as described by Chen (n.d.) in his paper is, "The more time people maintain their relationships online, the less chance people can have at face to face communication" (p. 6). Turkle (2015) said that, "the real emergency may be parents and children not having conversations or sharing a silence between them that gives each the time to bring up a funny story or a troubling thought" (p. 17). Thus, the communication pattern, with and without social media, is also studied by the researcher.



Nancy Devinder Kaur

Assistant Professor,
Deptt. of Journalism and Mass
Communication,
Punjabi University,
Patiala, Punjab, India

Jasleen Kaur Sethi

2019

First Record of Astigmatid mites (Acari: Sarcoptiformes) from animal carcasses of Punjab (India) by Harwinder Kaur in JETIR

 **JETIR.ORG** Home About Jetir Editorial / RMS For Author Archive Contact Us [Submit Paper Online](#)

Journal of Emerging Technologies and Innovative Research | An International Open Access, Peer-reviewed, Refereed Journal | ISSN: 2349-5162 | Impact factor 7.95
Calculate by Google and Semantic Scholar | UGC Approved Journal No 63975 | ESTD Year : 2014 | Email: editor@jetir.org

About JETIR (Peer-Reviewed, Refereed, Open Access & Indexed)

Scholarly Open Access Research Journal, Peer-Reviewed, Refereed Journals, Impact Factor 7.95 (Calculate By Google Scholar and Semantic Scholar | AI-Powered Research Tool), Multidisciplinary, Monthly, Multilanguage, Indexing In All Major Database & Metadata, Citation Generator, Digital Object Identifier(DOI), UGC Approved Journal No 63975, Publication Guidelines : COPE Guidelines, Online and Print With Hard Copy ISSN Approved Journal, Low Publication fees 1500 INR for Indian author & 55\$ for Foreign International Author.

© 2019 JETIR June 2019, Volume 6, Issue 6

www.jetir.org (ISSN-2349-5162)

First record of Astigmatid mites (Acari: Sarcoptiformes) from animal carcasses of Punjab(India)

Harwinder Kaur, Madhu Bala and Navpreet Kaur

Dept. of Zoology and Environment Science,

Punjabi University, Patiala – 147002 – Punjab, India.

Abstract : *This paper analyses the occurrence of mites of the infra order Astigmata in situations involving of forensic aspects. Species belonging to the families acaridae, glycyphagidae, histiostomatidae and lardoglyphidae encountered in cattle carcasses. Advance decomposition of animal remains allows mites for rapid dispersal and colonization of such unpredictable resources.*

Keywords : Forensic Acarology, Carcasses, Astigmata, animal carcasses.

Introduction

Mites of the infra order Astigmata (Order Acariformes, Suborder Sarcoptiformes) are able to exploit variable habitats like dead animal places by a specialized deutonymphal instar that typically disperses via phoresy on arthropod or vertebrate hosts (OConnor 1982; Houck and OConnor 1991). From apparently phoretic associations, astigmatid mites have also emitted generally as permanent parasites of birds and mammals. Because of short generation time, many species of these mites can build up large populations on intense resource spots. Astigmatid mites are the dominant constituent of the acarofauna of house dust and stored food products (Hughes 1976; Wharton 1976; Colloff and Stewart 1997).

Women Entrepreneurs: A study of selected districts of Punjab by Dr. Chitra Mishra
Journal of Emerging Technologies and Innovative Research



[Home](#) [About Jetir](#) [Editorial / RMS](#) [For Author](#) [Archive](#) [Contact Us](#)

[Submit Paper Online](#)

Journal of Emerging Technologies and Innovative Research | An International Open Access, Peer-reviewed, Refereed Journal | ISSN: 2349-5162 | Impact factor 7.95
Calculate by Google and Semantic Scholar | UGC Approved Journal No 63975 | ESTD Year: 2014 | Email: editor@jetir.org

About JETIR (Peer-Reviewed, Refereed, Open Access & Indexed)

Scholarly Open Access Research Journal, Peer-Reviewed, Refereed Journals, Impact Factor 7.95 (Calculate By Google Scholar and Semantic Scholar | AI-Powered Research Tool), Multidisciplinary, Monthly, Multilanguage, Indexing In All Major Database & Metadata, Citation Generator, Digital Object Identifier(DOI), UGC Approved Journal No 63975, Publication Guidelines : COPE Guidelines, Online and Print With Hard Copy ISSN Approved Journal, Low Publication fees 1500 INR for Indian author & 55\$ for Foreign International Author.

© 2019 JETIR January 2019, Volume 6, Issue 1

www.jetir.org (ISSN-2349-5162)

Women Entrepreneurs: A Study of Selected Districts of Punjab

*Chitra Sharma Mishra

**Dr. Sukhmani Waraich

***Dr. B S Bhatia

*Research Scholar (1309196) IKG-PTU, Kapurthala, Jalandhar (India)

**AP (Finance/HR) KCL-IMT, (Supervisor ID-11090101), IKG-PTU, Kapurthala, Jalandhar (India)

*** Pro Vice Chancellor, RIMT, Mandi Gobindgarh (Punjab), India

Abstract

The role of women entrepreneurs is very important to the economic development in most of the nations as women represent nearly half of the population of the nation. Growing rates of women's contribution have facilitated developed nations in ever-increasing their growth rate. As compared to male work participation rate in India women work participation rate is quite low. This paper attempts to find out trend and pattern of women work participation in Punjab. A snowball sampling technique is used for the selection of the units. Women working in the areas of manufacturing, trading or services which are owned and managed by them are covered in the study as women are self employed in tiny and micro ventures. Women involved in fashion boutiques, beauty parlors, tuition centers, tiffin services, small shops are approached to take data for collection and empirical investigation. The study managed to come up with two main policy recommendations that are envisioned to go a long way in improving the performance of women entrepreneurs in Punjab as well as in India.

Trajectory of exploration of self in the plays of Eugene O'Neill by SB Sharma in JETIR



[Home](#) [About Jetir](#) [Editorial / RMS](#) [For Author](#) [Archive](#) [Contact Us](#)

[Submit Paper Online](#)

Journal of Emerging Technologies and Innovative Research | An International Open Access, Peer-reviewed, Refereed Journal | ISSN: 2349-5162 | Impact factor 7.95
Calculate by Google and Semantic Scholar | UGC Approved Journal No 63975 | ESTD Year : 2014 | Email: editor@jetir.org

About JETIR (Peer-Reviewed, Refereed, Open Access & Indexed)

Scholarly Open Access Research Journal, Peer-Reviewed, Refereed Journals, Impact Factor 7.95 (Calculate By Google Scholar and Semantic Scholar | AI-Powered Research Tool), Multidisciplinary, Monthly, Multilanguage, Indexing In All Major Database & Metadata, Citation Generator, Digital Object Identifier(DOI), UGC Approved Journal No 63975, Publication Guidelines : COPE Guidelines, Online and Print With Hard Copy ISSN Approved Journal, Low Publication fees 1500 INR for Indian author & 55\$ for Foreign International Author.

© 2019 JETIR June 2019, Volume 6, Issue 6

www.jetir.org (ISSN-2349-5162)

Trajectory of exploration of self in the plays of Eugene O'Neill

Dr.S.B.Sharma
Assistant Professor
Department of English

Abstract

The modern American playwright Eugene O'Neill's plays present the modern man in his varied versions ranging from a romantic dreamer to a neurotic lost in the machinations of the machine age and the one having fluid personality always in the process of reinventing himself. The present paper having traversed all the major plays of O'Neill attempts to demonstrate not only quintessential trials and tribulations of the modern man in his quest for the exploration of his real self but, more than this, it seeks to delve deep into the contemporary American psyche as well through the subtle portrayal of different shades of 'self'. The paper brings to fore a general point that in the journey called life it is pride that imprisons the free spirit of a human being and becomes the cause of his undoing i.e. hamartia of the tragedy called life. Ironically it is in this tragedy only that he explores himself and finds himself in true sense through the process of looking inside instead of looking outside, a common mistake that one tends to make. He comes to realize that man is just a speck on the infinite canvas of cosmos without any control whatsoever over himself and his destiny. But still he is given ample amount freedom to opt for certain choices which might enable him to slug it out in the battlefield of life in order to understand the basics of life. Obviously this fight or quest is doomed to be a mere mirage for self fulfillment, nevertheless it is worth pursuing as it gives the individual some meaning and significance in the beauty of 'fighting, willing and living' of this tragedy called life. The fighter peels off the masks after

Impact of EHR Technology Implementation on Physicians' Job Satisfaction by Navneet Kaur Bajwa/ Harjot Singh/ Kalyan Kumar in International Journal of Applied Management and Technology



INTERNATIONAL JOURNAL OF
**APPLIED MANAGEMENT
& TECHNOLOGY**

About This Journal

Mission

The mission of the *International Journal of Applied Management and Technology (IJAMT)* is to encourage collaborative and multi-disciplinary examinations of important issues in business and technology management, and to engage scholars and scholar-practitioners in a dynamic and important dialogue. More information about the *IJAMT* can be found in [Aims and Scope](#).

Open Access

The *IJAMT* supports the open exchange of information and offers **Diamond Open Access**, which includes free access to peer-reviewed articles and content without charging article processing and publishing fees. Please see the [Policies](#) section for more information on authors' rights.

Publication Schedule

All manuscripts are peer reviewed and a first decision is provided to authors approximately 30 days after submission. Articles in the *IJAMT* are published on an **as-accepted basis** and appear online immediately upon completion of our production process.

Indexing and Abstracting

Impact of EHR Technology Implementation on Physicians' Job Satisfaction

Navneet Kaur Bajwa
Thapar University

Harjot Singh
Thapar University

Kalyan Kumar De
Amity University

The concept of an electronic health record (EHR) has been the solicitous subject of researchers' discussion in recent times. The impact that a successful implementation of EHRs can have on physicians cannot be overstated. Factors which are critical to successful implementation of EHR systems are commonly known as crucial technology implementation factors (CTIFs). The present study investigates the CTIFs of EHR systems and also their impact on physicians' job satisfaction and characteristics in North Indian multispecialty hospitals. The questionnaire has been distributed to physicians of 12 hospitals that have been using EHR technology. It has been concluded that five CTIFs—organizational support, training, software attributes, acceptance to change, and computer knowledge—play a more important role than that played by other factors. The factors have not been considered separately on the basis of preimplementation scenario and postimplementation phase. The study attempts to analyze the impact of EHR systems on job operational performance of physicians.

Keywords: *crucial technology implementation factors, EHR, job satisfaction, multispecialty hospitals, physicians, North India*

Introduction

The electronic health record (EHR) is an essential mechanism, even a competitive weapon that can

2020

SATISFACTION LEVEL OF FACULTY MEMBERS OF STATE RUN AND PRIVATE UNIVERSITIES OF PUNJAB RELATED TO WORK ENVIRONMENT: A COMPARATIVE STUDY by Dr. Ramandeep Saini and Chanjyot Kaur in International Journal of Mechanical And Production Engineering Research And Development (IJMPERD)

About - International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

ISSN(Print) : 2249-6890 ISSN(Online) : 2249-8001

Impact Factor(JCC) : 10.4684 IBI Factor : 3.2

International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) - is a scholarly, peer reviewed journal which offers prompt publication of articles covering experimental, numerical and theoretical investigations which give insight into the major areas of mechanical, thermal and fluid engineering. It publishes contributions in the fields of fluid mechanics, aerothermodynamics of internal flow, heat and mass transfer, multiphase flow, turbulence modeling, combustion, engineering thermodynamics, thermo physical properties of matter, measurement and visualization techniques. This journal publishes high level student texts, explanation and dissemination of technology and good practice, through to interesting and important research that is immediately relevant to industrial development or practice.

Types of paper

Research Articles: These should describe new, carefully confirmed findings, innovative & creative research ideas and experimental procedures should be given in sufficient detail for others to verify the work. The length of a full paper should be the minimum required to describe and interpret the work clearly. It also includes personalized review articles on the research work carried at the author(s)' laboratory, based on the published work of the author(s).

Short Communications: A short communication is suitable for recording the results of complete small investigations or giving details of new models or hypotheses, innovative methods, techniques, creative models etc., The style of main sections need not conform to that of full-length papers. Short communications are 2 to 4 printed pages (about 6 to 12 manuscript pages) in length.

Reviews Articles: Submissions of reviews and perspectives covering topics of current interest are welcome and encouraged. Reviews should be concise and no longer than 4-6 printed pages (about 12 to 18 manuscript pages). Review manuscripts are also peer-reviewed. It also focuses on current advancements in the given field.

Addendum: It includes article giving additional information on earlier published research paper of the author

Case Report: It includes case reports / studies in any sub-areas of the main field. A case report is generally considered a type of

SATISFACTION LEVEL OF FACULTY MEMBERS OF STATE RUN AND PRIVATE UNIVERSITIES OF PUNJAB RELATED TO WORK ENVIRONMENT: A COMPARATIVE STUDY

DR. RAMANDEEP SAINI¹ & MS. CHANJYOT KAUR²

Director Principal (officiating) Chandigarh Business School of Administration, Dean International Affairs, Chandigarh Group of Colleges (CGC), Landran, Mohali, Punjab, India

Research Scholar, IKG PTU, Kapurthala, Jalandhar, Punjab, india

ABSTRACT

In the contemporary world, organisations these days face lot of challenges because of the dynamic environment. The major challenge faced by an organisation today is to satisfy its human resources in order to retain them in the ever changing environment. Human resources are the most valuable assets of an organisation who have abundant job opportunities available to them. Increased productivity and effective results of any organisation is dependent on the satisfaction level of employees and the work environment in which an employee is working. The work environment is a significant factor that influences the satisfaction level of employees and in turn job satisfaction is a significant factor that influences the retention of employees in an organisation. Hence, in order to retain the productive employees of an organisation it is very essential to provide supportive work environment to the employees. So the main objective of the research is to study the satisfaction level of faculty members of State Run and Private Universities of Punjab related to work environment. Quantitative research is done in order to compare the satisfaction level of faculty members of State Run and Private Universities of Punjab. Descriptive analysis and multivariate statistical technique including mean, standard deviation and t-test has been applied for obtaining the results. The study concludes by proposing various suggestions that the educational managers need to apprehend the significance of supportive work environment to maximize the job satisfaction level among the faculty members.

KEYWORDS: *Dynamic Environment, Challenge, Satisfaction, Work Environment, Retention*

Received: Jun 08, 2020; **Accepted:** Jun 28, 2020; **Published:** Aug 31, 2020; **Paper Id.:** IJMPERDJUN2020982

Morphological and Cytogenetic Analysis of Different Cytotypes of Boerhaavia Diffusa L. and their evaluation for biological activity by Nisha Sharma in Advances in Traditional Medicine



Advances in Traditional Medicine

[Editorial board](#) [Aims & scope](#) [Journal updates](#)

- 100% of authors who answered a survey reported that they would definitely publish or probably publish in the journal again
- Title change: Oriental Pharmacy and Experimental Medicine continued as Advances in Traditional Medicine (Adv. Tradit. Med.) from 2020

Editor-in-Chief

Hyunsu Bae

Publishing model

Hybrid (Transformative Journal). [How to publish with us, including Open Access](#)

2.0 (2022)

Impact factor

21 days

Submission to first decision

88,196 (2022)

Downloads

Morphological and cytogenetic analysis of different cytotypes of *Boerhaavia diffusa* L. and their evaluation for biological activity

[Nisha Sharma](#), [Bikram Singh](#), [Aruna Bhatia](#), [Raghubir Chand Gupta](#) & [Mohammad Saleem Wani](#) 

[Advances in Traditional Medicine](#) **21**, 791–803 (2021) | [Cite this article](#)

187 Accesses | **2** Citations | [Metrics](#)

Abstract

Boerhaavia diffusa is an herbaceous plant of the family Nyctaginaceae. It is mentioned to have anti-aging, disease prevention, and life-enhancing activities that hold enormous influence on disease burden and affordability/availability of healthcare in the world. In the present study, various populations of this plant species were characterized using morphological markers, cytogenetic and phytochemical analyses. Besides, biological activity was also studied for anti-diabetic and anti-bacterial effects using rats and bacterial systems respectively. For the three cytotypes i.e. diploid, tetraploid and octaploid, twelve morphological traits were studied. HPLC system was used for the identification of bioactive compounds present in extracts. The in vivo anti-hyperglycemic effects of the extract in alloxan-induced diabetes were determined using Swiss albino rats. Rats with fasting plasma glucose vary ≥ 300 – 315 mg/dl were treated to be diabetic and utilized for the examination. Anti-bacterial activities of three cytotypes of *B.*

Morphological, Cytological, and Chemotypic Variation of Essential Oils in Syzygium cumini (L.) Skeels by Nisha Sharma in Analytical Chemistry Letters

The screenshot shows the website for *Analytical Chemistry Letters*. The header is dark blue with the journal title in white. A search bar is located in the top right corner. Below the header, there are navigation links: 'Submit an article', 'About this journal', 'Browse all articles & issues', and 'Alerts & RSS feed'. The main content area is white. On the left, there is a sidebar with links for 'Ready to submit?', 'Submission information', and 'Editing services'. The main content area features the title 'Aims and scope' in a large, bold font. Below the title, there is a paragraph describing the journal as a multidisciplinary, peer-reviewed, international journal publishing original research articles, short communications, and review articles across all areas of analytical chemistry including supportive analysis of:

- Modern Analytical and Bioanalytical Chemistry (with multidisciplinary approaches)
- Spectroscopy including Atomic Spectroscopy, Ultraviolet and Visible Spectroscopy, Infrared Spectroscopy, Raman Spectroscopy, Nuclear Magnetic Resonance and X-Ray Spectroscopy among others
- Electrochemistry and Instrumentation
- Genomics and Proteomics
- Medicinal, Computational Chemistry and Drug Discovery

Morphological, Cytological, and Chemotypic Variation of Essential Oils in *Syzygium cumini* (L.) Skeels

Nisha Sharma, Bikram Singh, Mohammad Saleem Wani ✉, Raghbir Chand Gupta & Talaat H. Habeeb

Pages 609-619 | Received 23 Sep 2020, Accepted 05 Dec 2020, Published online: 23 Dec 2020

🗨️ Cite this article <https://doi.org/10.1080/22297928.2020.1862703>



📖 References

🗨️ Citations

📊 Metrics

🖨️ Reprints & Permissions

Read this article

Abstract

Syzygium cumini, is a medicinally important plant and exhibits a wide range of cytomorphological diversity. The present attempt was made to study the detailed meiotic course in five different populations from North India. The meiotic analysis depicts the presence of three cytotypes with $2n = 22, 44,$ and 66 . These cytotypes were further subjected to the chemical analysis of the content and composition of leaf essential oil by GC-MS. All three-leaf samples (SLS-1, SLS-2, and SLS-3) collected from the same study area (Patiala, Punjab) were reported to be different in the content and composition of their essential oil components. The extraction yields of oils from leaves were 0.37% (SLS-1), 0.42% (SLS-2), and 0.39% (SLS-3), respectively. The essential oil constituents identified were 38, 39, and 39 out of total 40 constituents for each oil sample representing 99.08% , 99.52% , and 99.39% of the compositions, respectively. The major constituents of leaf essential oil of sample SLS-1 were: Iso-dihydrocarveol (14.61%); (Z)- β -ocimene (12.02%). From sample SLS-2 were (Z)- β -

Related

People
read

Intra-sp
Activity
Acid from
Cytotype

Nisha S
Journal o
Published

Chemica
Skeels L
Uses from



Studies of Indoor mite fauna from Punjab (India) by Harwinder Kaur in Our Heritage


Our Heritage [Current](#) [Archives](#) [About](#) [Login](#)


[Home](#) / [Archives](#) / [Vol. 68 No. 1 \(2020\): Vol-68-Issue-1-January-2020](#) / [Articles](#)


Section Articles

Studies of Indoor Mite Fauna From Punjab (India)

 Harwinder Kaur  Madhu Bala

 Navpreet Kaur


 Download



Abstract

This paper analyses the indoor mite fauna of Punjab. A total 663 dust samples were collected from the homes of different locations. From these, 397 dust samples i.e. 59.88% were found to be positive for mites and 266 dust samples i.e. 40.12 were negative for mites. Dominant mite were Blomiatropicalis and Tarsonemusgranarius were in least number. A total 24 species belonging to 14 genera, 08 families and 03 orders have been identified. The collected mites belonged to order Sarcoptiformes (astigmata), Trombidiformes(prostigmata)and Mesostigmata.

Impact Of Numerical Technique On The Solution Of Boundary Value Problem By Nisu Jain In International Journal Of Scientific Research In Mathematical And Statistical Sciences




International Journal of Scientific Research in Mathematical and Statistical Sciences

Scholarly, Peer-Reviewed, and Academic Research Journal

Home
About Us
Aim & Scope
Editorial Board
For Author
Publication Ethics
Volume 6

...e from the authors as per the scope of the journal.

Int. J. of Scientific Research in
Mathematical and
Statistical Sciences



www.isroset.org

Int. J. of Sci. Research in Mathematical and Statistical Sciences

ISSN (Online)	: 2348-4519
Language	: English
Frequency	: 6 Issues per year
Focus Subject	: Mathematical Sciences(all), and Statistical Sciences(all)
DOI	: 10.26438/ijstrmss
OCLC No (WorldCat)	: 1127456381
Review Process	: Double blind peer-review by referees
Time to 1 st Decision	: 2 to 8 weeks from date of submission
Time to Acceptance	: 4 to 15 weeks, depending upon the required revision cycles
Time to Publication	: 2 to 3 weeks from date of final submission in the forthcoming issue
Editor-in-chief	: Dr. Chandra K Jaggi

International Journal of Scientific Research in Mathematical and Statistical Sciences (IJSRMSS) is an international peer-reviewed and academic research journal. It is dedicated to publish and disseminate the high quality scientific research work in the broad field of mathematical and statistical sciences. It aims to publish peer reviewed original research, theoretical and practical advances in mathematical and statistical sciences. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new finding and developments in different areas of mathematical and statistical sciences.

Call for Papers: Authors are cordially invited to submit their original research papers, based on theoretical or experimental works for publication in the journal.

Publication of papers in IJSRMSS is **FREE OF COST (Free Submission and Publication)**. We do not charge any publication fee from the authors for the papers to be published in IJSRMSS.



Impact of Numerical Technique on the Solution of Boundary Value Problem

Nisu Jain

Department of Mathematics, Govt. Mohindra College Patiala-147001, Punjab, India

Author's Mail id: jainnisu@yahoo.in Tel.: +91-98768-62938

Available online at: www.isroset.org

Received: 28/May/2020, Accepted: 10/June/2020, Online: 30/June/2020

Abstract—A comparison of orthogonal collocation method (OCM) and orthogonal collocation on finite elements (OCFE) is done to solve boundary value problem numerically and analytically. Both numerical techniques are applied on dimensionless form of the model, then equations are discretized using numerical techniques. The results are obtained by MATLAB ODE 15s system solver software. Comparison is shown both in tabulated and graphical form. Relative error is used to check the efficiency of the technique. 3-D graphs are used to specify solution variation for different values of parameter.

Keywords— OCM; OCFE; Boundary Value Problems; Laplace Transformation

I. INTRODUCTION

Boundary value problems are used in science and engineering for several years, yet they remain very active and interesting research area because of their application in various fields of science and engineering. There are many types of differential equations such as diffusion equation, advection-diffusion equation, Burgers-Huxley equation, Burger-Fisher equation, Fisher-Kolmogorov equation, Fitzhugh-Nagumo equation, Kuramoto-Sivashinsky equation, Kawahara equation etc., which describes the various physical problems.

Differential equations play a vital role in the field of Mathematics, especially in modeling and simulation. The

techniques which are followed to solve the linear boundary value problems. However, finite difference method and collocation techniques are from the family of numerical techniques. The main difference between analytic and numerical techniques is that former solves the equation on an abstract set whereas later discretize the problem on a given set of points.

Collocation techniques are one of the weighted residual methods. In such type of techniques, the solution of the given problem is replaced by an approximating function. This approximating function is adjusted to the differential equation and the boundary conditions as well. The residual is set equal to zero at the collocation points. As the collocation techniques have easy adaptability to the

Critical Success Factors in Electronic Health Records (EHR) Implementation: An Exploratory Study in North India by Dr. Navneet Kaur Gill, Dept. of Management



open access
INTERNATIONAL JOURNAL OF
**Healthcare
Information Systems
and Informatics**

International Journal of Healthcare Information Systems and Informatics (IJHISI)

This journal converted to Gold Open Access on January 1, 2021
Editors-in-Chief: Qiang (Shawn) Cheng, Joseph Tan

Indexed In: Compendex (Elsevier Engineering Index), INSPEC, SCOPUS, Web of Science Emerging Sources Citation Index (ESCI) and 18 more indices
Published: Continuous Volume | Established: 2006
ISSN: 1555-3396 | EISSN: 1555-340X | DOI: 10.4018/IJHISI



Journal Citation Reports
Clarivate
Web of Science
Impact Factor
1.1
2022



INTERNATIONAL JOURNAL OF
**Healthcare
Information Systems
and Informatics**

Critical Success Factors in Electronic Health Records (EHR) Implementation: An Exploratory Study in North India

Navneet Kaur Bajwa, Harjot Singh, Kalyan Kumar De
Source Title: International Journal of Healthcare Information Systems and Informatics (IJHISI) 12(2)
Copyright: © 2017 | Pages: 17
DOI: 10.4018/IJHISI.2017040101

OnDemand: (Individual Articles) **\$37.50**
Available
Current Special Offers

Abstract

Electronic Health Records (EHR) has been the subject of much academic discussion in recent times. The impact that a successful implementation of EHR can have on a hospital cannot be overstated. Factors which are crucial to successful implementation of an EHR system are commonly known as Critical Success Factors (hereinafter referred to as CSFs). Purpose: The present study investigates the role of CSFs in implementation process of EHR systems in north Indian multispecialty hospitals. Design: The questionnaire has been distributed to 12 hospitals which have been using EHR technology. Findings: It has been concluded that three out of the five CSFs included in the study, play a more important role than the other two factors. Research limitations: The factors have not been considered separately based upon pre-implementation scenario and post-implementation phase. Originality: The study attempts to outline the impact of EHR systems on successful operational performance of hospitals.

Article Preview

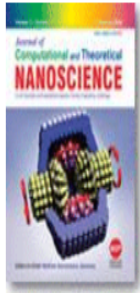
Top

Introduction

Electronic health records (EHR) represent an essential tool, even a competitive weapon, that can aid in the cost-effective and efficient coordination of care services, including the secured sharing of patient information among multiple healthcare providers. Today, smart deployment of appropriate health information and communication technologies (ICTs), such as an EHR system, can improve both patient safety and the quality of care delivery. Yet, it is argued that gatekeepers of a country's healthcare systems, including physicians and other caregivers such as nurses and pharmacists, must also be actively engaged with, and consistently use, the technology in order to accrue the intended benefits of EHR systems (Ajami & Bagheri, 2013).

A key challenge, which underlies the present study, is to filter out those critical variables that may affect the successful implementation of EHR systems within a specific workplace environment. In this research, we seek to identify those critical success factors (CSFs), as perceived by the primary gatekeepers (i.e., practicing physicians) to be the most relevant for accruing the benefits of, and positive impact from, EHR implementation efforts in north India hospitals. Accordingly, a key step is to rationalize and operationalize those key variables and their corresponding constructs, expressing them into specific, relevant and easy-to-measure activities or outcomes. Such efforts are warranted if researchers are to quantify more meaningfully (and objectively) how attempts to

Interactive Parametric Approach for Quadratically Constrained Bi-Level Multi-Objective Quadratic Fractional Programming by Vandana Goyal in Journal of Computational and Theoretical Nanoscience



Iterative Parametric Approach for Quadratically Constrained Bi-Level Multiobjective Quadratic Fractional Programming

Buy Article:

\$107.14 + tax

(Refund Policy)

ADD TO CART

BUY NOW

Authors: Goyal, Vandana; Rani, Namrata; Gupta, Deepak

Source: Journal of Computational and Theoretical Nanoscience, Volume 17, Number 11, November 2020, pp. 5046-5051(6)

Publisher: American Scientific Publishers

DOI: <https://doi.org/10.1166/jctn.2020.9339>



[< previous article](#) | [view table of contents](#) | [next article >](#)

[♥ ADD TO FAVOURITES](#)

[References](#)

[Citations](#)

[Supplementary Data](#)

...

Abstract



References



Citations




Supplementary Data

The paper proposed an iterative parametric approach procedure for solving Bi-level Multiobjective Quadratic Fractional Programming model. The Model is divided into two levels-upper and lower. In the first stage of the approach, a set of pareto optimal solutions of upper Level is obtained by converting the problem into equivalent single non-fractional parametric objective optimization problem by using parametric vector and ϵ -constraint method. Then for the second stage, the solution of upper level is followed by the lower level decision maker while finding solution with the proposed algorithm to obtain the best preferred solution. A numerical example is solved in the last to validate the feasibility of the approach.

2021

Exploring Resilience And Hardiness With Narrative Analysis Of Personal War Narratives Of War Heroes By Gurpreet Kaur Sandhu & Gurdarshan Singh Sandhu In Indian Journal Of Positive Psychology



Indian Journal of Positive Psychology

Publisher: IAHRW Publications Private Limited
Editor: Dr. Sunil Saini
Online ISSN: 2321-368X, **Print ISSN:** 2229-4937
Frequency: Quarterly

[Subscribe](#)

[Recommend this Journal!](#)

Description:

IJPP is a Quarterly referred Journal Published by IAHRW. The journal is a medium for empirical enquiry, theoretical papers, reviews, applied and policy related articles. The journal welcomes all modes of research: experimental, observational, interpretive, and survey. The aim is to provide quality information and enable scholarly deliberation contributing to the growth and success of Positive Psychology. We welcome proposals for articles that address important issues of positive psychology with special emphasis on: Positive Psychology, Positive Clinical Psychology, Positive Health Psychology, Positive Organizational Psychology, Positive Social Psychology Positive Developmental Psychology, Positive Community Psychology..

[Subscription Access](#)

[Indian Journal of Positive Psychology / Volume 12, 2021 / Issue 2, June](#) / Exploring resilience and hardiness with narrative analysis of personal war narratives of war heroes

g product image

Exploring resilience and hardiness with narrative analysis of personal war narratives of war heroes

₹ ~~201.00~~ ₹ 200.00

Pages: 193-199
Gurpreet Kaur Sandhu¹ and Col Gurdarshan Singh Sandhu² (Department of Psychology, Govt. Mohindra College, Patiala, Punjab¹ and Retired Colonel Indian Army, Regiment of Artillery²)

The purpose of this study is to explore resilience and hardiness in context of personal experience the war narratives of the War heroes. The war stories of war heroes of Indo Pakistan war of Battle of Kargil (1999); Battle of Longewal (1971); and Battle of Tiger Hill (1999) were investigated with narrative analysis methodology. The narrative approach is a new research paradigm in military sciences which offer conceptual tools to explore fact-based war narratives. The personal experience war narratives of the war heroes were described with Mishler (1995) and Labov and Waletzky (1997) structural model of narrative analysis with emphasis on evaluative interpretations of the personal war experiences. Labov and Waletzky argue that a narrative begins with an orientation, has actions that complicate it and build interest into an apex and finishes with a coda or a resolution section. The constructs of resilience (psychological & physiological), and military hardiness (courage, control, commitment, & challenge) were discussed and illustrated in context of military ethos, military training and warfare. The findings revealed that the war heroes are "men of steel" who fought the wars for their country with extraordinary

Nanoparticles Incorporating a Fluorescence Turn-on Reporter for Real-Time Drug Release Monitoring, a Chemoenhancer and a Stealth Agent: Poseidon's Trident against Cancer by Taranpreet Kaur in Molecular Pharmaceutics

Nanoparticles Incorporating a Fluorescence Turn-on Reporter for Real-Time Drug Release Monitoring, a Chemoenhancer and a Stealth Agent: Poseidon's Trident against Cancer?

Arjun Attri, Deepak Thakur, Taranpreet Kaur, Sebastian Sensale, Zhangli Peng, Deepak Kumar, and Raman Preet Singh*

✔ Cite this: *Mol. Pharmaceutics* 2021, 18, 1, 124–147

Publication Date: December 21, 2020 ▾

<https://doi.org/10.1021/acs.molpharmaceut.0c00730>

Copyright © 2020 American Chemical Society

[Request reuse permissions](#)

Article Views

475

Altmetric

1

Citations

19

[LEARN ABOUT THESE METRICS](#)

Share Add to Exp



PDF (11 MB)



Access Through Your Institution

More Access Options



Supporting Info (9) »

SUBJECTS: Carbon nanotubes, Conjugate acid-base pairs, Drug release, Fluorescence, Hydrolysis

Abstract

The rate and extent of drug release under physiological conditions is a key factor influencing the therapeutic activity of a formulation. Real-time detection of drug release by conventional pharmacokinetics approaches is confounded by low sensitivity, particularly in the case of tissue-targeted novel drug delivery systems, where low concentrations of the drug reach systemic



Safety and Efficacy of Pseudomonas Exopolymer in Sequestration of Iron from Aqueous Environments by Taranpreet Kaur in Recent Advancements in Bioremediation of Metal Contaminants



Safety and Efficacy of Pseudomonas Exopolymer in Sequestration of Iron From Aqueous Environments

Moushumi Ghosh, Divya Sharma, Taranpreet Kaur

Source Title: [Recent Advancements in Bioremediation of Metal Contaminants](#)

Copyright: © 2021 | Pages: 17

DOI: 10.4018/978-1-7998-4888-2.ch014

OnDemand:
(Individual Chapters) **\$37.50**

Available

[Current Special Offers](#)

Abstract

The present study reports the iron binding characteristics and safety of an exopolymer (EBP) of an environmental isolate of *Pseudomonas* sp. The EBP was predominantly polysaccharide in composition with pyruvic and uronic acid residues. A prevalence of carboxyl and hydroxyl groups was observed in the Fourier-transform infrared spectroscopy (FTIR) results, while scanning electron microscopy (SEM) revealed a porous structure in a linear fashion with large number of grooves. The purified EBP was stable for over two months and exhibited rapid binding of iron (25mg/L) within 10 minutes at ambient temperature. X-ray diffraction (XRD) and energy-dispersive X-ray spectroscopy (EDAX) analysis of iron challenged EBP suggested the involvement of carboxyl groups in potentiating iron removal. Both Langmuir and Freundlich adsorption isotherms depicted high iron removal capacity in comparison to reported biomasses or biopolymers. Cytotoxic effects were not observed upon challenging various doses of EBP in RAW 264.7 cell lines implying a strong possibility of application of the EBP.

Chapter Preview

[Top](#)

Introduction

Metal ions, especially heavy metal ions, discharged into water bodies by human activities, persist and accumulates in the food chain leading to serious environmental problems. Additionally, the bioaccumulation and biomagnifications of heavy metals at each step of the food chain poses health issues in animals and humans due to their mutagenic and carcinogenic potential (Bawuro et al., 2018; Latif et al., 2018; Yen et al., 2018). As the second most abundant element in earth's crust, Iron is a crucial cofactor in enzymes involved in various metabolic processes and electron transport in plants and animals. Despite the physiological importance of iron in all genera of life, high levels of iron in water can exert untoward effects in aquatic ecosystems. An increase in iron levels beyond a threshold can impact species composition of lakes by stimulating growth of green algae and cyanobacteria while also adversely affecting growth of aquatic and submerged plants. Adverse health effects such as liver cancer, infertility and diabetes are common by overloading of iron (Staniek and Wojciak, 2018). The presence of iron beyond 0.3 mg/L imparts colour (yellow to reddish), odor and taste to drinking water. In view of this both World Health Organization (WHO) and the United States Environment Protection Agency (US EPA) have recommended levels of 0.3 mg/L iron in drinking water (WHO, 1996).

In recent years, biological methods of pollutant and toxicant removal have gained increasing attention as an easy and cost effective substitute to conventional chemical and physical methods of remediation (Wang et al., 2012; Xue et al., 2006; Yang et al., 2004). Although the bioremediation protocols have been

**A Literature Review Of Factors Affecting Employee Retention At Workplace By
Taranpreet Kaur In The International Journal Of Analytical And Experimental Modal
Analysis (Ijaema)**



The International Journal Of Analytical And Experimental Modal Analysis (IF-6.3)

An UGC-CARE Approved Group – II Journal (Scopus Indexed Till 1992)

ISSN NO: 0886-9367: Download UGC-CARE Group 'II' Journals list -Serial No. 36272 SUBMIT

YOUR PAPER TO: Email id: submitjaema@gmail.com

The International journal of analytical and experimental modal analysis

ISSN NO:0886-9367

**A Literature Review of Factors Affecting Employee Retention at
Workplace**

Dr. Ramandeep Saini

Director Principal (officiating) Chandigarh Business School of Administration, Dean
International Affairs,

Chandigarh Group of Colleges (CGC), Landran, Mohali, (Punjab).

Address (R): 1392/1, Guru Tegh Bahadur Complex, Near Amar Hospital, Sector 70, Mohali
(Punjab).

Mobile No: 9781925259

Email id: ramandeepsaini2000@gmail.com

Ms. Chanjyot Kaur*

Research Scholar,

IKG Punjab Technical University, Kapurthala, Jalandhar, (Punjab).

Address(R): 8288/5, Factory Area, Near Hira Automobiles, Patiala, (Punjab).

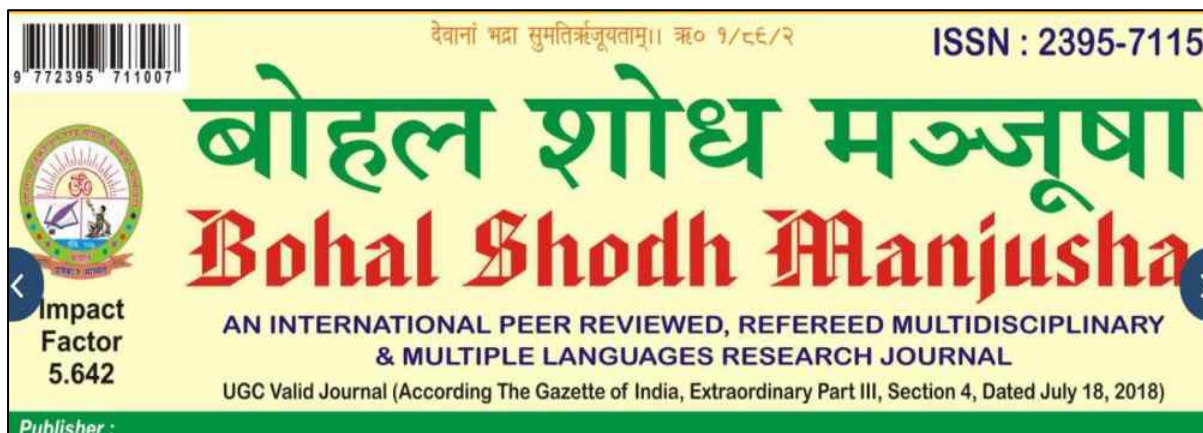
MobileNo: 9888186455

Email id: chanz2885@yahoo.co.in

Abstract

Human resources are the most valuable assets of an organisation. All the organisations are now days technologically equipped but still they require the help of human resources to operate the technology. Because of lot of progress in all the areas of economy, there is a cut throat competition in the market. No employer can afford to lose its workforce because of the ever changing technology and stiff competition. Thus, human resources play a vital role in the organisations and it becomes essential to secure and retain skilled employees. The managers these days are facing the biggest challenge of retaining these human resources because the human resources have many opportunities available to them in the market.

पारिवारिक एवं स्त्री जीवन का यथार्थ तथा मैत्रीय पुष्पा के उपन्यास by Dr. Sunita Arora
in बोहल शोध मञ्जूषा



Determination of the Volatile Composition in Essential Oil of *Azadirachta indica* A. Juss from different areas of North Indian Plains by Gas Chromatography/Mass Spectrometry (GC/MS) by Nisha Sharma in Analytical Chemistry Letters

Determination of the Volatile Composition in Essential Oil of *Azadirachta indica* A. Juss from different areas of North Indian Plains by Gas Chromatography/Mass Spectrometry (GC/MS)

Nisha Sharma, Bikram Singh, Mohammad Saleem Wani ✉, Raghbir Chand Gupta & Talaat H. Habeeb

Pages 73-82 | Received 25 Sep 2020, Accepted 11 Jan 2021, Published online: 24 Feb 2021

📄 Cite this article 🌐 <https://doi.org/10.1080/22297928.2021.1877195> 🔍 Check for updates

📖 References 🗨 Citations 📊 Metrics 🖨 Reprints & Permissions [Read this article](#)

Abstract

The present work identifies the essential oil components of *Azadirachta indica* leaves from three different locations viz. Haryana, Punjab, and Uttar Pradesh. The yields of essential oils obtained by hydro-distillation were 0.018 %, 0.038 %, and 0.047 % from Haryana, Punjab, and Uttar Pradesh, respectively. The detailed chemical composition of essential oils was analyzed by GC-MS, and thirty-six, thirty-two, and thirty-four compounds were identified. The results indicated that the most abundant components of sample AzP were germacrene-B (40.31 %), β -caryophyllene (10.89 %), mintsulfide (9.41 %), γ -elemene (7.24 %), α -humulene (2.87 %), bicyclogermacrene (2.70 %), phytol (2.64 %), and α -cadinol (2.00 %). Compared with the constituents of sample AzP, several chemical compounds such as

Related res

People also read

Intra-specific V and UPLC Qual Two Morphoty Achyranthes as

Nisha Sharma Journal of Biolog Published online

Socio-economic profile of women entrepreneurs in the 21st century by Dr. Chitra Mishra in International Journal of All Research Education and Scientific Methods

The screenshot shows the homepage of the International Journal of All Research Education & Scientific Methods (IJARESM). The header features the journal's logo on the left, the title "International Journal of All Research Education & Scientific Methods" in the center, and the ISSN number "2455-6211" on the right. Below the title, it states "An ISO Certified Peer-Reviewed Journal". There are social media icons for Facebook, Twitter, LinkedIn, and Google+. A navigation menu includes "HOME", "EDITORIAL BOARD", "PROCESSING CHARGES", "ONLINE SUBMISSION", "ISSUES", "INDEXING", and "CONTACT US". A search bar is located on the right side of the menu.

The main content area is divided into several sections:

- IJARESM Menu:** Includes links for "Publication Ethics", "Peer Review & Publication Policy", "Call For Papers", "Why IJARESM", "Topics Covered", and "Special Issue".
- Download:** Includes links for "Author Guidelines", "Copyrights Form", and "Paper Template".
- Latest News:** A section with a "NO" status and the text "Understanding UGC Approved".
- Central Banner:** A large blue banner with the journal's logo and text: "International Journal of All Research Education & Scientific Methods", "An ISO Certified & Refereed Journal", and circulation figures: "1F 2013-2014: 1.786" and "1F 2014-2015: 2.287".
- Right Side:** Features a "UGC APPROVED JOURNAL" logo, an "ISO 9001:2008 CERTIFIED JOURNAL" logo, and three orange buttons: "PAY NOW", "JOIN US", and "SUBMIT YOUR PAPER NOW".
- Facebook Widget:** A widget showing the journal's Facebook page with 346 followers and a "Follow Page" button.
- Dissertation/Thesis:** A banner at the bottom right with the text "Dissertation/Thesis".



Socio-Economic Profile of the Women Entrepreneurs in the 21st Century

Dr. Chitra Mishra

Assistant Professor, Department of Commerce, Government Mohindra College, Patiala

ABSTRACT

The term 'entrepreneurship' is associated with the willingness to start any new micro, small or large business and undertaking risk through developing the idea and its implementation. The individual who establishes such an enterprise is called entrepreneurs. All the available recourses are arranged by the entrepreneur as input e.g. men, material, machine and capital and he/she assumes the risk. The success of entrepreneur needs proper environment, funds and availability of man power to start and operate it for long. As there may be many problems in initiating the imaginary idea to give the practical shape for the overall growth and development of the entrepreneurship because individual as well as group contribution is playing important role for generating the individual skills. Entrepreneurship covers the multidimensional phase's i.e. individual initiative, objectives, the available resources, environment and organization.

The research revealed about the demographic profile and reasons to start the business by women entrepreneurs and demonstrated that majority of women entrepreneurs were young and reasonably educated. They come from nuclear and joint families and most of the women entrepreneurs were matric and some of them were technically qualified. The background of family of maximum women entrepreneurs was daily wagger and private occupation and most of them had started their business for the survival of their families. Their annual household income was average, but they were doing well in their businesses. Further, factor analysis was applied to find out that which other reasons were important to become an entrepreneur and it was found that survival, business ownership, self-development, time & work management and employment generation are important determinants with high factor loadings for the socio-economic profile of women entrepreneurs. The above points are touching the height of glory in the 21st century. The major objectives for writing this papers are explained as under

Keywords: Entrepreneur, Socio-economic profile of women as entrepreneurs, Globalisation in the 21st century.

Trends and Pattern of Public Expenditure with special reference to health sector in Punjab by Anupam Mishra in International Journal of all Research Education and Scientific Methods

International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, IMPACT FACTOR: 7.896, SJR: 2.28 is a scholarly online, UGC certified journal, open access, peer-reviewed and fully refereed journal, multi-disciplinary monthly journal focusing on theories, researches, scientific methods and applications in all research areas. It is an international scientific journal that aims to promote research in all the research fields like Engineering, Science, Technology, Education, Management, Medical Sciences, Dental Sciences, Agricultural Sciences, Social sciences, Health Care, Arts & Humanities and many more. IJARESM Publication is indexed in **Google Scholar, SJR, Research Gate, Thomson Reuters Researcherid** and also indexed in **UGC Approved List of Journals**.

UGC Journal Details

Name of the Journal : International Journal of all research education & scientific methods

ISSN Number : 24556211

e-ISSN Number : 24556211

Source: UNIV

Subject: Engineering(all),Management of Technology and Innovation,Management Science and Operations Research

Publisher: IJARESM Publication

Country of Publication: India

Broad Subject Category: Multidisciplinary



Trends and Pattern of Public Expenditure with special reference to Health Sector in Punjab

Ms. Rupali Rani¹, Mr. Anupam Mishra²

¹Assistant Professor, Deptt. of Commerce, Govt. Mohindra College, Patiala

²Assistant Professor, Deptt. of Management, Govt. Mohindra College, Patiala

ABSTRACT

The whole world is striving to achieve higher levels of development through various means and ways as higher development gives a stronger position to the country at world level. The essence of the all the development activities moves around the overall well-being of the humankind. The overall well-being of the people depends upon the availability and quality of the basic facilities such as health, education, employment opportunities, sophisticated place to live in, safe drinking water, safety etc. The aforesaid fundamental necessities are interrelated and interdependent but among them the most critical is health of the people as healthy people can use and cherish the other basic facilities and can contribute to the growth of the country. Therefore, health of the people should be the top priority and responsibility of the government. For this purpose, allocation of financial resources to these sectors by the government, play a vital role. Every year some specific amount is specifically earmarked for these priority social services in public budget in order to serve the same. The present study is undertaken for analyzing the trend and pattern of public expenditure made by the government in health sector of Punjab over the period of 15 years from 2000-01 to 2015-16 by using the ratios and percentages method. By observing, the analysis of the study we can conclude that overall public health expenditure had grown over the period with 13.04% per cent but if we consider it individually in terms of revenue and capital health expenditure then it came out as out of the total expenditure about 99% spent on revenue health expenditure and a negligible amount for capital expenditures. Further, the mixed trend of expenditures is seen but in recent years revenue expenditures showed an increasing trend with average annual growth of 13.50 % per cent, on the other hand capital expenditure went down with an average annual negative growth of -9.17% per cent. The above findings summarized that priority of health sector's budget spending is on staff salaries, pensions etc. instead on the health infrastructure. The study recommended the reallocation and reprioritization of resources and due weight age be given to all types of expenditure, as both are essential for provision of health care services to the people.

**FGP Approach To Bi-Level Multi-Objective Quadratic Fractional Programming With
Parametric Functions By Vandana Goyal In Advances In Mathematics: Scientific
Journal**

Journal

Advances in Mathematics: Scientific Journal

Union of Researchers of Macedonia, R. North Macedonia

[Home](#)

[Editorial Board](#)

[General Policy](#)

[Ethical Statement](#)

[Indexing](#)

[Information for Authors](#)

[All Issues](#)

[Special Issues](#)

[Contact](#)

ISSN:

1857-8365 (printed version)


1857-8438 (electronic version)

DOI:

<https://doi.org/10.37418/amsj>

Parametric approach to quadratically constrained multi-level multi-objective quadratic fractional programming
by Vandana Goyal in OPSEARCH

Journal



OPSEARCH

[Editorial board](#) [Aims & scope](#) [Journal updates](#)

The journal OPSEARCH is the official publication of the Operational Research Society of India (ORSI). Established in 1957, under the leadership of Prof. P. C. Mahalanobis, ORSI is a national forum set up with an objective of promoting education and applications of Operational Research (OR) in day-to-day environment in business, industry and other organizations. — [show all](#)

Editor-in-Chief
Angappa Gunasekaran

Publishing model
Hybrid (Transformative Journal). [How to publish with us, including Open Access](#)

1.6 (2022)	88 days	51,161 (2022)
Impact factor	Submission to first decision (Median)	Downloads

Research Paper

[Home](#) > [OPSEARCH](#) > [Article](#)

Theoretical Article | [Published: 10 January 2021](#)

Parametric approach to quadratically constrained multi-level multi-objective quadratic fractional programming

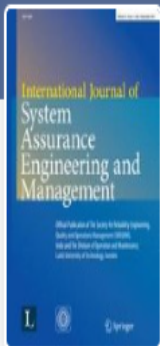
[Vandana Goyal](#), [Namrata Rani](#) & [Deepak Gupta](#) 

[OPSEARCH](#) **58**, 557–574 (2021) | [Cite this article](#)

Abstract

The paper proposed a method to study and obtain a set of Pareto optimal solutions or a set of representative solutions to a quadratically constrained multi-level multiobjective quadratic fractional programming problem. This problem involves several objectives to be fulfilled at multi levels under a common set of quadratic constraints. Initially, we used parametric approach to convert the fractional programming model to an equivalent non-fractional programming model by allocating a parametric vector to each fractional objective. Then, ϵ -constraint method is used to convert this multiobjective programming model into an equivalent model with single objective. The solution of every previous level is followed by the next level in succession to find a solution which is suitable to each level decision maker. An algorithm and numerical example are also presented at the end of the paper to validate the proposed methodology for the Model.

A Solution Procedure for Multi-objective Fully Quadratic Fractional Optimization Model by Vandana Goyal in International Journal of System Assurance Engineering and Management



International Journal of System Assurance Engineering and Management

 [Editorial board](#)

 [Aims & scope](#)

 [Journal updates](#)

International Journal of System Assurance Engineering and Management is the official Journal of the Society for Reliability Engineering, Quality and Operations Management (SREQOM), India; and the Division of Operation and Maintenance, Lulea University of Technology, Sweden.

This Journal is established with a view to cater to the increased awareness for high quality research in the seamless integration of heterogeneous technologies to formulate bankable solutions to the emergent complex engineering problems. The Journal provides a platform

Original article | [Published: 13 October 2021](#)

A solution procedure for multi-objective fully quadratic fractional optimization model

[Namrata Rani](#), [Vandana Goyal](#) & [Deepak Gupta](#) 

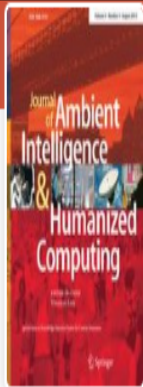
International Journal of System Assurance Engineering and Management **12**, 1447–1458 (2021) | [Cite this article](#)

118 Accesses | [Metrics](#)

Abstract

This paper suggests an efficient procedure to search for efficient/satisfactory solution of Multi-objective Fully Quadratic Fractional Optimization Model with fuzzy coefficients using α -level set and FGP approach. Quadratic fractional objectives are hard to handle due to their complex structure and need to be converted into non-fractional form. Till now, Taylor's series or parametric method is used to employ simpler objectives. But their always exist chance of error due to truncation of infinite series. Here, a new method is induced to have non-fractional fuzzy goals and in the final step, the linear weighted sum of negative deviational variables is minimized to satisfy all objective functions upto maximum possible extent. In the end, an algorithm, flowchart and numerical are also given to clarify the applicability of the suggested approach.

Algorithm for bi-level multi-objective fully quadratic fractional optimization model with fuzzy parameters by Vandana Goyal in Journal of Ambient Intelligence and Humanized Computing



Journal of Ambient Intelligence and Humanized Computing

 [Editorial board](#)

 [Aims & scope](#)

 [Journal updates](#)

Journal of Ambient Intelligence and Humanized Computing (JAIHC) provides a high profile, leading edge forum for academics, industrial professionals, educators and policy makers involved in the field to contribute, to disseminate the most innovative researches and developments of all aspects of ambient intelligence and humanized computing, such as intelligent/smart objects, environments/spaces, and systems. The journal discusses various technical, safety, personal, social, physical, political, artistic and economic issues. The research topics covered by the journal are (but not limited to): — [show all](#)

[Home](#) › [Journal of Ambient Intelligence and Humanized Computing](#) › [Article](#)

Original Research | [Published: 30 June 2021](#)

Algorithm for bi-level multi-objective fully quadratic fractional optimization model with fuzzy parameters

FGP for BLMOFQFOM

[Namrata Rani](#), [Vandana Goyal](#) & [Deepak Gupta](#) 

Journal of Ambient Intelligence and Humanized Computing **12**, 10637–10649 (2021) | [Cite this article](#)

269 Accesses | **3** Citations | [Metrics](#)

Abstract

The presented research is concerned to obtain an efficient solution for bi-level multi-objective fully quadratic fractional optimization model (BLMOFQFOM). It is based on the idea of transforming the fractional model into non-fractional one for the initial guess of variables. Trapezoidal fuzzy numbers (TrFN) are being taken as the parameters in the fuzzy model to deal with vague and incomplete data and α -cut set is used to get a deterministic model from the fuzzy model. Concept of fuzzy goals is implemented to set aspiration level as unity for all objective functions. An attractive flowchart, algorithm and a computational problem are also illustrated to show the validity of the designed approach.

On Solving Bi-level Multi-Objective Fully Quadratic Fractional Optimization Model with Fuzzy Demands by Vandana Goyal in International Journal of Mathematical, Engineering and Management Sciences



International Journal of Mathematical, Engineering and Management Sciences

ISSN: 2455-7749 • Open Access

Home

Volumes

Aim & Scope

Ethical Issues

For Authors

Indexing

Announcements

Editorial Board

The *International Journal of Mathematical, Engineering and Management Sciences* (IJEMS) is an online scientific journal that publishes bi-monthly technical and more informal communications directed to a large readership, as well as articles/review papers/case studies that demonstrate the interaction between various disciplines such as *mathematical sciences, engineering sciences, engineering and technology, management sciences, numerical and computational sciences*. Research papers, expository and survey papers of high quality are considered from any discipline. In submitting the papers, author(s) must guarantee that they are not submitted elsewhere simultaneously.

Articles in the *International Journal of Mathematical, Engineering and Management Sciences* are Open Access, published under the creative commons license Attribution 4.0 International (CC BY 4.0) <https://creativecommons.org/licenses/by/4.0/>. This license permits use, distribution, and reproduction in any medium, provided the original work and source are properly cited. The publisher of the journal is *Ram Arti Publishers*, India.

Title: *International Journal of Mathematical, Engineering and Management Sciences*

ISSN: 2455-7749

Editor-in-Chief: *Mangey Ram*

Starting Year: 2016

Frequency: 6 Issues per year

Publication Mode: *Online*





On Solving Bi-level Multi-Objective Fully Quadratic Fractional Optimization Model with Fuzzy Demands

Namrata Rani

Department of Mathematics,
Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, India.
E-mail: namratagarg55@gmail.com

Vandana Goyal

Department of Mathematics,
Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, India.
E-mail: vandanaGoyal04@gmail.com

Deepak Gupta

Department of Mathematics,
Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, India.
Corresponding author: guptadeepak20003@gmail.com

(Received on May 28, 2021; Accepted on October 19, 2021)

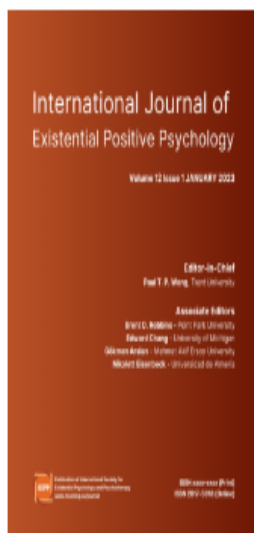
Abstract

This paper has been designed to introduce the method for solving the Bi-level Multi-objective (BL-MO) Fully Quadratic Fractional Optimization Model through Fuzzy Goal Programming (FGP) approach by utilising non-linear programming. In Fully Quadratic Fractional Optimization Model, the objective functions are in fractional form, having quadratic functions in both numerator and denominator subject to quadratic constraints set. The motive behind this paper is to provide a solution to solve the BL-MO optimization model in which number of decision-makers (DM) exists at two levels in the hierarchy. First, the fractional functions with fuzzy demand, which are in the form of fuzzy numbers, are converted into crisp models by applying the concept of α -cuts. After that, membership functions are developed which are corresponding to each decision-maker's objective and converted into simpler form to avoid complications due to calculations. Finally, the model is simplified by applying FGP approach, and a compromised solution to the initial model is obtained. An algorithm, flowchart and example are also given at the end to explain the study of the proposed model.

2022

A Dialectical Perspective On Existential Crisis And Mental Health Crisis In Context Of Covid-19 Pandemic: A Phenomenological Study By Gurpreet Kaur Sandhu In International Journal Of Positive Existential Psychology

The International Journal of Existential Positive Psychology



Editor-in-Chief: Paul T. P. Wong

ISSN: 2817-5018 (online)

This journal is a publication of the [International Society for Existential Positive Psychology](#).

The International Journal of Existential Positive Psychology (formerly called the *International Journal of Existential Psychology and Psychotherapy*) is the official publication of the International Society for Existential Positive Psychology. It is a peer-reviewed, full-text scholarly journal that provides fast, online publications.

A DIALECTICAL PERSPECTIVE ON
EXISTENTIAL CRISIS AND MENTAL HEALTH
CRISIS IN CONTEXT OF COVID-19
PANDEMIC: A PHENOMENOLOGICAL STUDY

Gurpreet Kaur Sandhu, Ph.D.

Department of Psychology, Government Mohindra College, Patiala, Punjab, India

Abstract

Using Yalom's "existential givens" of death, isolation, meaninglessness, and freedom and Tillich's domains of existential anxiety as theoretical framework, this paper aimed to explore and analyse the dialectics of the existential crisis and mental health crisis experienced during Covid-19 pandemic. Using a qualitative phenomenological research design, this study uses in-depth individual interviews to collect data from 27 participants. In-depth interviews and Focus group discussions were recorded, transcribed, and thematically analysed with Moustakas's (1994) method of data analysis. Six themes major themes were amalgamated to develop the composite invariant structure of lived experiences of the participants: (1) fear of death; (2) mental distress; (3) meaninglessness of existence; (4) transcendence; (5) post-traumatic growth; and (6) isolation. The existential dread caused by the contagious variants of novel coronavirus spurred a global dialectical reckoning with existential paradoxes of life, death, isolation, freedom and meaninglessness. The existential anxiety precipitated by the pandemic

**Comparative Studies On Age And Growth Patterns Of Cultivated And Wild Catla
Catla (Hamilton) By Lakhwinder Kaur And Onkar Singh Brraich In Indian Journal Of
Experimental Biology**



Indian Journal of Experimental Biology (IJEB)

[OP-HOME](#) [IJEB-HOME](#) [ABOUT](#) [LOG IN](#) [SEARCH](#) [CURRENT](#) [ARCHIVES](#) [ANNOUNCEMENTS](#) [NISCPR](#) [NOPR](#)

Home > [Indian Journal of Experimental Biology \(IJEB\)](#)

Indian Journal of Experimental Biology (IJEB)

The Indian Journal of Experimental Biology (IJEB), started in 1963, is a broad-based open access monthly peer-reviewed periodical publishing original research of experimental nature that contributes significantly to knowledge in cell biology, molecular biology, biotechnology, endocrinology, reproductive biology, immunology, developmental biology, comparative physiology, radiation biology, chronobiology, microbiology, pharmacology, toxicology and other biological fields including instrumentation and methodology. The papers having experimental design involving alteration and/or manipulation in biological system(s) providing insight into their functioning are considered for publication. **Impact Factor of IJEB is 0.944 (JCR 2021)**

CSIR-NIScPR does not levy Article Processing Charges (APCs) or Article Submission Charges.

Authors who publish with IJEB agree that once published copyright of the article will be transferred to the publisher, with the work simultaneously licensed under a [Creative Commons Attribution-BY-NC-ND 4.0 International License](#), that allows others to share the work with an acknowledgement of the work's authorship and initial publication in this journal.



Comparative studies on age and growth patterns of cultivated and wild *Catla catla* (Hamilton)

Onkar Singh Brraich^{1*} & Lakhwinder Kaur²

^{*}Department of Zoology and Environmental Sciences, Punjabi
University, Patiala-147 002, Punjab, India

^{**} Department of Zoology, Govt. Mohindra College, Punjabi
University, Patiala, Punjab, India

Received 15 July 2021; revised 24 January 2022

Catla catla (Hamilton) is one of the fastest growing Indian major carps (IMCs) with increasing market demand. Consistent demand and exploitation invites the attention of ichthyologists for its conservation strategies. Age and growth studies play a pivotal role for managing the fishery stocks in different water bodies. Here, we studied the age and growth patterns using opercula of both farm grown as well as the wild grown *C. catla* adopting standard methodologies. Wild specimens were caught from Harike wetland (Ramsar site) and the cultivated one from a farm at Dhudike in Punjab. High value of correlation coefficient 'r' 0.976 (wetland) and 0.983 (farm) reveals the strong relationship in total length and operculum radius of the fish. *C. catla* achieved average total length from wetland and farm, respectively at 1st (273.44 mm) 2nd (427.44 mm) 3rd (525.49 mm) 4th (624.52 mm) 5th (744.98 mm) 6th (813.62 mm) and 1st (282.1 mm) 2nd (463 mm) 3rd (601.7 mm) year of age of opercular bones study. The growth parameters such as, index of species average size (ϕ) 135.6 (wetland) and 200.6 (farm), growth constant (C_t) showed two growth phases from both localities i.e. sexual immaturity up to 2 years and sexual maturity afterwards. Whereas, growth characteristic (C_{th}) has revealed irregular growth pattern at wetland in comparison to growth of fish from farm. The results of this study concluded that the fish experienced more growth from the farm due to better and controlled conditions but, in wetland surrounding conditions were observed to be unfavourable for survival of the fish *C. catla*.

short period compared to other fishes. Consistent demand has prompted the ichthyologists to work on conserving these species¹. Age and growth studies are basic and provide imperative information that aid the fish biologists to formulate the guidelines for *in situ* conservation of fish fauna^{2,3}. Different calcified structures, such as scales, opercular bones, vertebrae, pectoral and dorsal fin spines, otolith, etc. are being used to explore the age and growth in numerous fish species. Amongst varied hard parts opercular bones were found to be reliable parts of the skeleton for the determination of age in *Catla catla*⁴, *Oreochromis aureus*⁵ and *O. niloticus*⁶. Two growth zones, opaque and translucent collectively represent growth of one year on opercular bones in *Schizothorax o'connori*⁷ but, concluded with underestimation of age in comparison with otolith and vertebrae of the fish. In *Boops boops*⁸ and *Abramis brama*⁹ opercular bones were also reported inferior for ageing. In recent decade, Indian authors focused to find the precise age structure from different hard parts being used to estimate age and growth in diverse fish species. Accurate selection of hard parts, such as vertebrae in *Sperata aor*³, *Mastacembelus armatus* and *Ompok pabda*¹⁰, *Salmophasia balookee*¹¹, opercular bones in *Catla catla*⁴ and *Hypophthalmichthys molitrix*¹⁰, scales in *Labeo rohita* and *Channa marulius*⁴, *Cirrhinus mrigala*^{12,13}, otoliths in *Salmophasia balookee*¹¹ and thin-sectioned otoliths in *Sperata aor*¹⁴ could play important role while framing conservational strategies for reported fish species in tropical fresh water bodies.

Harike wetland was reported with shrinking area

Intra-specific Variability in Anti-Diabetic Activity and UPLC Quantification of Oleanolic Acid from Two Morphotypes and Three Cytotypes of *Achyranthes aspera*
Nisha Sharma Journal of Biologically Active Products from Nature

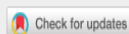
ence ► Journal of Biologically Active Products from Nature ► List of Issues ► Volume 12, Issue 2 ► Intra-specific Variability in Anti-Diabe ...

Intra-specific Variability in Anti-Diabetic Activity and UPLC Quantification of Oleanolic Acid from Two Morphotypes and Three Cytotypes of *Achyranthes aspera*

Nisha Sharma, Bikram Singh, Aruna Bhatia, **Mohammad Saleem Wani** ✉ & Raghbir Chand Gupta

Pages 111-124 | Received 01 Sep 2021, Accepted 01 Mar 2022, Published online: 18 Apr 2022

“ Cite this article <https://doi.org/10.1080/22311866.2022.2052963>



References

Citations

Metrics

Reprints & Permissions

Read this article

Abstract

Achyranthes aspera is an economically important medicinal plant, exhibiting a wide range of cytomorphological diversity. Taking into account, its pharmacological activities, as well as variability, found within the species, the present attempt was made to study the detailed meiotic course in 13 plant samples collected from different areas of North India. The anti-diabetic activity of three different cytotypes (diploid, tetraploid, and hexaploid) and two different morphotypes (obovate-leaf morphotype and ovate-leaf morphotype) was investigated in alloxan-induced Swiss albino male rats. Additionally, phytochemical analysis of aerial parts of these cytotypes and morphotypes was performed using the UPLC technique. The meiotic analysis depicts the presence of three cytotypes with $2n=14$, 28, and 42. The results indicated that the diploid cytotype of *A. aspera* has maximum activity against diabetes in alloxan-induced diabetic rats. Out of the two morphotypes, the obovate-

Related

People a read

In vitro Ar
Partially P
Bivalves A
(A549 and

Deepakra
Journal of E
Published c

In-vivo Ar

Sangeet Mein Abhyas Ka Mhatva by Dr. Rai Bahadur Singh in Anhad Lok



A UGC - CARE Listed, Peer-Reviewed Journal Dedicated to Art & Culture

Advisory Board

Editorial Board

Peer Reviewers

Guidelines

Published by: Vyanjana Art & Culture Society || ISSN 2349-137X || Frequency: Half Yearly

Anhad Lok / अनहद लोक

'Anhad Lok' is an International half-yearly research journal that is published by the Vyanjana Art and Culture Society. This magazine has featured articles from scholars, teachers, artists, and renowned artists. The aim is to create a platform for the exchange of thoughts and knowledge among scholars, professors, experts, and artists.

These articles have been divided into several chapters, like Gana (Music), Atodya (Instrument), Nartan (Dance), Thati (Folk heritage), Samayiki (Contemporary), Sanskriti (Culture), and Samwad (Interaction).

व्यंजना आर्ट एंड कल्चर सोसाइटी अंतरराष्ट्रीय अर्धवार्षिक शोध पत्रिका 'अनहद लोक' प्रकाशित करती है। इस पत्रिका में शोधार्थियों, शिक्षकों, कलाविदों के साथ ही स्वनामधन्य कलाकारों के लेखों का प्रकाशन हुआ है उद्देश्य ये है कि शोधार्थी, कलाकार व शिक्षक सभी एक दूसरे की दृष्टि से अवगत हो सकें। इन लेखों को गान, आतोद्य, नर्तन, थाती, सामायिकी, संस्कृति, संवाद जैसे अनेक अध्यायों में विभक्त किया गया है।

संगीत में अभ्यास का महत्व

डॉ. राय बहादुर सिंह

असिस्टेंट प्रोफेसर, संगीत गायन
राजकीय महिंद्रा कालेज पटियाला।

सारांश

भारतीय संगीत के हजारों वर्षों के इतिहास में अनेकों संगीत साधकों ने अभ्यास, साधना से इस धारा को प्रवाहित किया व परिष्कृत किया। यही कारण है कि हमें भारतीय संगीत का इतिहास पढ़ते समय अनेकों चमत्कारिक गुणों का उल्लेख भी पढ़ने को मिलता है। संगीत के जिन प्रभावों पर विश्व के अन्य क्षेत्रों में शोध आधुनिक काल में आरंभ हुई, भारतवर्ष में भारतीय संगीत में उनका क्रियान्वयन सदियों से होता चला आ रहा है। कला तभी श्रोता या दर्शक के मनोभावों को उद्वेलित कर सकती है जब उसमें कला व भाव (मनोभाव) का उचित साम्य स्थापित हो जाए और यह तभी संभव हो पाता है जब कलाकार दृढ़ता व लगन के साथ निरन्तर अभ्यास के द्वारा कला पक्ष में सहज हो जाए। अभ्यास के द्वारा इस अवस्था को अर्जित करने के बाद उस कला को जब मनोभावों का पुट दिया जाता है तब वह संगीत कला, ललित कला की श्रेष्ठता को प्राप्त करती है। यही अभ्यास की महिमा है।

बीज शब्द

भारतीय संगीत, साधना, अभ्यास, लगन, दृढ़ता, मार्गदर्शन

प्रकृति की मधुर ध्वनियों ने जब मनुष्य के मन को उद्वेगित किया तो इन ध्वनियों के मनुष्य द्वारा अनुकरण की चेष्टा से संगीत का जन्म हुआ। मानव जीवन के विकास के साथ संगीत का भी विकास होता गया। मानव ने अपने मनोभावों, उदगारों को अभिव्यक्त करने के लिए संगीत को माध्यम बनाया। जैसे-जैसे मनुष्य सामाजिक, राजनैतिक, वैज्ञानिक और मनोवैज्ञानिक क्षेत्रों में उन्नति की ओर अग्रसर होता गया, कला संस्कृति, संगीत भी विकास के पथ पर आगे बढ़ते गए। संगीत जहाँ एक ओर समाज का दर्पण है वहीं समाज का मार्गदर्शक भी है। 'ललित कलाओं में अग्रगण्य होने के कारण संगीत में निहित लालित्य का अर्थ एवं उद्देश्य

मानव के मन मस्तिष्क को आकृष्ट करना तथा तदोपरान्त उसी आकर्षण में तल्लीन रसोन्मुक्ति की चरमोत्कृष्ट अवस्था में उसका नैतिक उत्थान करना है।'

भारतीय संगीत, जैसा कि ऐतिहासिक प्रमाणों से स्पष्ट होता है, विश्व का प्राचीनतम संगीत माना जाता है। कई हजार वर्षों की भारतीय संगीत की परंपरा आज हमारे समक्ष अपने अत्यन्त परिष्कृत एवं समृद्ध रूप में विद्यमान है। सदियों से चली आ रही इस परम्परा को परिष्कृत करने, आगे बढ़ाने में समय-समय पर अनेक विद्वानों/ कलाकारों/ गुनीजनों ने योगदान दिया। 'एक कलाकार दूसरे कलाकार का मार्गदर्शक होता है। पहला कलावंत कला रूपी डोर को जिस स्थान पर छोड़ता है, दूसरा कलाकार

Status of women in Mathematics by Rachna Arora in Journal of Emerging Technologies and Innovative Research

© 2022 JETIR February 2022, Volume 9, Issue 2

www.jetir.org (ISSN-2349-5162)

JETIR.ORG

ISSN: 2349-5162 | ESTD Year : 2014 | Monthly Issue



**JOURNAL OF EMERGING TECHNOLOGIES AND
INNOVATIVE RESEARCH (JETIR)**

An International Scholarly Open Access, Peer-reviewed, Refereed Journal

STATUS OF WOMEN IN MATHEMATICS

Rachna Arora, Research Scholar, Department of mathematics, Desh Bhagat University, Mandi Gobindgarh

* Professor Rama Kumari, Supervisor

Abstract

For a long time, woman have been under appreciated and harshly judged in the field of mathematics based their gender. Although there have been many improvements in their status in this field in recent years, but women still lay behind in entering at research level of mathematics where they can develop their skill. The main aim of present paper is to focus on various factors responsible for their under representation in the field of mathematics.

Keywords: Women in mathematics, mathematics and gender issue.

Introduction

Mathematics is still male dominated area of knowledge into which women's entry is indirectly prevented. It is a general assertion that males outperform females in the field of mathematics despite of the fact proved scientifically that biologically women have greater strength and intelligence as compared to men. Societal recognition to the intelligence of women is based upon the religious and cultural role expecting from the women, which is generally not in the favour of women's active contribution to any field. As a result of this women's participation in the field mathematics at various levels is not found to be encouraging. it does not mean that women do not learn or practise mathematics in their day to day life; No doubts ementary mathematics is part of their regular curriculum. But this situation of learning elementary mathematics

Accuracy and Performance Enhancement of Machine Learning System for IDS by Manju Bala and Dr Rajinder Singh Sodhi in Asian Journal Of Organic and Medicinal Chemistry

A J O M C

Asian Journal of Organic & Medicinal Chemistry

Volume 4, Number 1
pp. xxx-xxx
January-March 2019
ISSN: 2456-8937



<http://ajomc.asianpubs.org>



Asian Publication Corporation
Sahibabad (India)
<http://asianpubs.org>

Editor-in-Chief

Dr. Bimal K. Banik

Vice President of Research & Education Development
Community Health Systems of South Texas
Edinburg, USA

Shaping of protagonist's subjectivity in J.M Coetzee's Life and Times of Michael K by Prof. Geeta in JETIR



JETIR.ORG

[Home](#) [About Jetir](#) [Editorial / RMS](#) [For Author](#) [Archive](#) [Contact Us](#)

[Submit Paper Online](#)

Journal of Emerging Technologies and Innovative Research | An International Open Access, Peer-reviewed, Refereed Journal | ISSN: 2349-5162 | Impact factor 7.95
Calculate by Google and Semantic Scholar | UGC Approved Journal No 63975 | ESTD Year : 2014 | Email: editor@jetir.org

About JETIR (Peer-Reviewed, Refereed, Open Access & Indexed)

Scholarly Open Access Research Journal, Peer-Reviewed, Refereed Journals, Impact Factor 7.95 (Calculate By Google Scholar and Semantic Scholar | AI-Powered Research Tool), Multidisciplinary, Monthly, Multilanguage, Indexing In All Major Database & Metadata, Citation Generator, Digital Object Identifier(DOI), UGC Approved Journal No 63975, Publication Guidelines : COPE Guidelines, Online and Print With Hard Copy ISSN Approved Journal, Low Publication fees 1500 INR for Indian author & 55\$ for Foreign International Author.

© 2022 JETIR August 2022, Volume 9, Issue 8

www.jetir.org (ISSN-2349-5162)

JETIR.ORG

ISSN: 2349-5162 | ESTD Year : 2014 | Monthly Issue



**JOURNAL OF EMERGING TECHNOLOGIES AND
INNOVATIVE RESEARCH (JETIR)**

An International Scholarly Open Access, Peer-reviewed, Refereed Journal

Shaping of Protagonist's Subjectivity in J. M. Coetzee's *Life & Times of Michael K*

Geeta

Faculty of English

Govt. Mohindra College Patiala

Abstract : Human subjectivity signifies human self consciousness which, in turn, indicates the state of awareness. An individual is recognised in a society through his/her family name. Consciously or unconsciously, he adopts the family identity that gives him recognition. In other words, self consciousness reflects the ability to locate, identify and experience. The individual takes decisions based on his/her experiences. Besides, consciousness also stands for the judgement of an individual which is shaped by his/her beliefs and views.

Index Terms - Human Subjectivity, Identity.

The present study attempts to discuss the subjectivity of the protagonists of J.M. Coetzee's novel, namely, *Life & Times of Michael K* (1983). In this novel, Coetzee has depicted the interregnum when the apartheid era had ended in South Africa and the country was heading towards independence. Behind the massive social unrest lurked the Soweto protest which affected the whole of South Africa in 1976. It pulled the entire nation along in its wave. The atmosphere in South Africa got highly charged and the blacks started revolting against the white government. The black students participated in many strikes and

**Research Paper title ‘Sanjeev Ka Upnevas ‘Sutardhaar’: Dalit Samaj Ka Yatharth’ by
Dr. Davinder Kaur in Review of Research (International Online Multidisciplinary
Journal**

Since Oct 2011

International Online Multidisciplinary Journal

Review of Research

ISSN No. : 2249-894X

Open Access
Monthly Publish

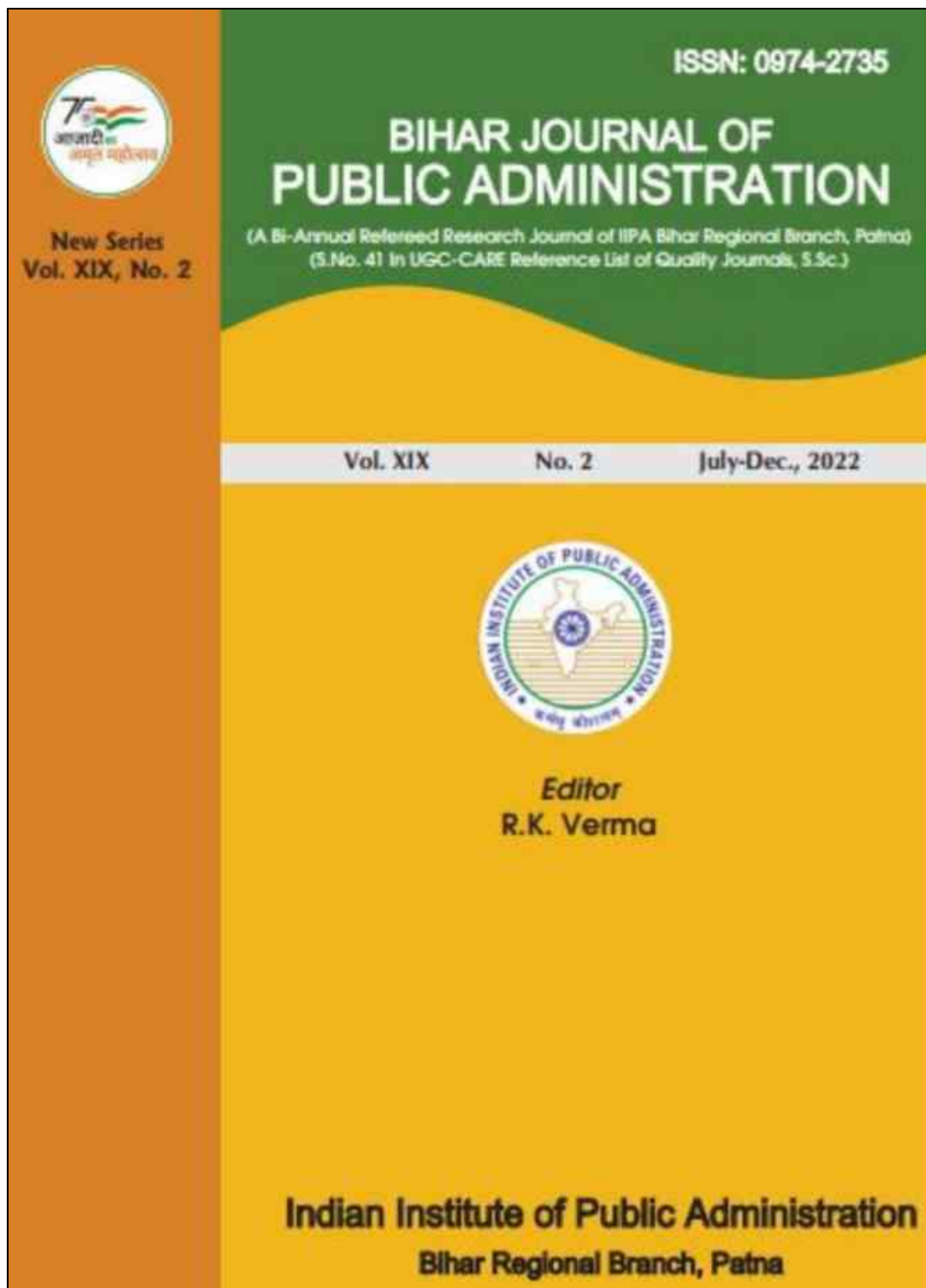
Save Tree, Save Paper, Save World



Our Journal is Added in  Qualis Capes

Review of Research Journal is a Online International multidisciplinary research journal, published monthly in English, Hindi & Marathi Language. All research papers submitted to the journal will be double - blind peer reviewed referred by members of the editorial Board readers will include investigator in universities, research institutes government and industry with research interest in the general subjects.

Public Service Delivery through Sewa Kendras in Punjab: A Study of Their Working in SAS Nagar District by Harmanpreet Singh in Bihar Journal of Public Administration





PUBLIC SERVICE DELIVERY THROUGH SEWA KENDRAS IN PUNJAB: A STUDY OF THEIR WORKING IN SAS NAGAR DISTRICT

Harmanpreet Singh*

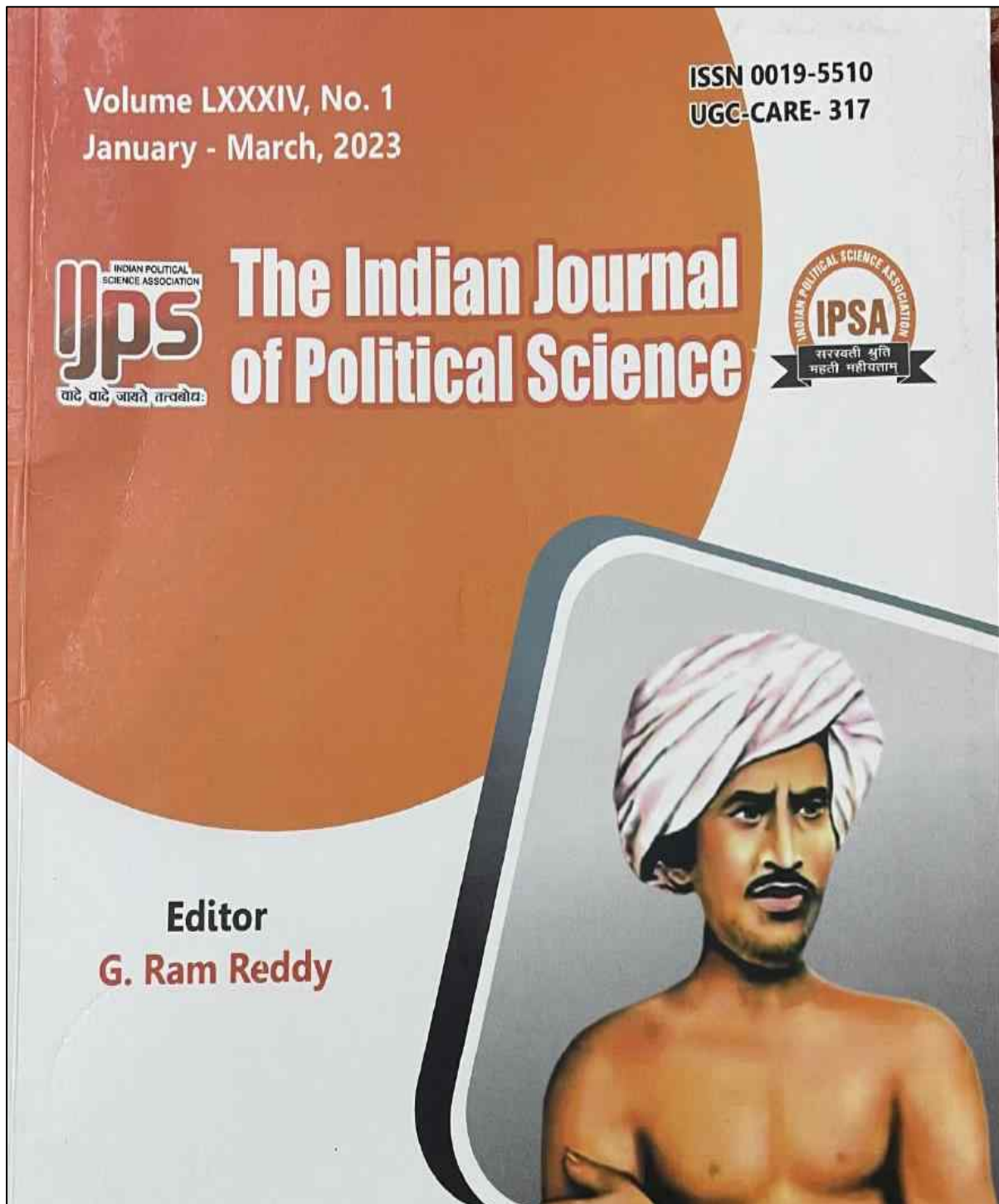
Abstract

Efficient public service delivery is a component of good governance and governments in India have made not only laws assuring right to service to the citizens but provided electronic kiosks known as 'sewa kendra' for quick service delivery. With this view in mind, the present paper assesses the impact of sewa kendras on efficient service delivery to the citizens. For this Shahibjada Ajit Singh Nagar (herein after S A S Nagar) was selected for the present paper. The paper is mainly based on primary sources of data collection. It applies observation method for obtaining information from the kendras. The paper finds that these sewa kendras are more effective in comparison to other such schemes but these kendras have not shown much promise mainly due to lack of finances, proper infrastructure, and management mechanism.

Keywords: Right to Service, Public Service Delivery, Sewa Kendra, Suwidha-Centres, SAS Nagar, Punjab.

2023

**Relationship between Good Governance and Right to Service by Harmanpreet Singh in
Indian Journal of Political Science**



RELATIONSHIP BETWEEN GOOD GOVERNANCE AND RIGHT TO SERVICE

Harmanpreet Singh

This paper introduces the framework of good governance and right to service by discussing its meaning, history and existence in present scenario. It depicts the provisions and structure of right to service and good governance. In this paper, an effort has been made to describe the relationship between good governance and right to service. Right to service naturally becomes part and parcel of good governance and they are the two sides of the same coin. The present paper illustrates many components of good governance exist in right to service. On the one hand good governance is the technology and on the other hand right to public service or citizen's charter is the tool to ensure the citizen friendly environment. Good governance works for the welfare of the people with all rights, one of which is right to service. Right to service makes the governments committed to provide security in the matter of public services and protect the interests of the citizens by specifying the public service performance standards.

Keywords: Right to Service, Good Governance, Public Service Delivery, Government.

Introduction

In the exercise of good governance, every citizen is entitled to hassle-free public services and redressal of his grievances. The Right to Services Act is testimony of the commitment of the particular state towards standard, quality and time frame of service delivery, grievance redressal mechanism, transparency and accountability. Based on the philosophy of good governance, the Right to Service Act aims to ensure time-bound delivery of public services to the citizens by providing them necessary means and wherewithal which can ensure the timely delivery of services. Thus, Right to Public Service Delivery is one of the most significant and critical aspects of good governance because it touches the lives of millions of people. Good governance is an ideal and right to service is one of the methods to

can be felt by people. Good governance does not depend only on the executive but rather is collectively dependent on the efficient functioning of the legislature, executive, judiciary, private institutions, NGO's, as well as the co-operation of the people. In its basic sense good governance is good government. The concept relates to the quality of the relationship between the government and the citizens. However, stated precisely and simply, governance means the way those with power use that power.¹

In today's parlance good governance has become a buzzword in daily life and the term symbolizes the paradigm shift in the understanding of the role of governments. Good governance means that government should provide accountable, responsive, transparent and participative administration that could bring a qualitative change in governance.

Regulatory Governance in Higher Education in India: Challenges before the Proposed Regulatory Framework under NEP 2020 by Mohammad Sohail in University News- a Journal of Association of Indian Universities



The screenshot shows the homepage of the Association of Indian Universities (AIU). At the top left is the AIU logo. To its right is the text 'भारतीय विश्वविद्यालय संघ' and 'ASSOCIATION OF INDIAN UNIVERSITIES'. A navigation bar contains links for 'FAQs', 'RTI', 'Tenders', 'Payment', 'Jobs', 'Gallery', 'News', 'Contact Us', and 'Me'. Below this is a blue navigation menu with 'Home', 'About AIU', 'Organisation', 'Research', 'Youth Affairs', 'Sports', 'Equivalence', and 'New Initiatives'. A central text block describes the journal: 'University News – A Weekly Journal of Higher Education published by the Association of Indian Universities is the premier forum for academics, leaders, teachers, policy makers, managers, administrators and stakeholders interested in different facets of higher education, national and international. Commenced in 1929, it is now an official organ of the Association. It has carved a niche for itself as one among the very few journals in regularity of appearance and richness of contents. It appears with clockwise regularity on every Monday and reaches an extensive audience. It is indeed an indispensable reading for all those connected with higher education. The Journal is referred internationally for the happenings in Indian higher education. It contains a mammoth of information about world higher education in general and Indian higher education in particular.'



The cover of 'UNIVERSITY NEWS' features a yellow and pink background with a green diagonal stripe. The AIU logo is in the top left corner. The title 'UNIVERSITY NEWS' is in large blue letters, with the subtitle 'A Weekly Journal of Higher Education' and 'Association of Indian Universities' below it. The issue information 'Vol. 61 • No. 02 • January 09-15, 2023' is at the bottom. The price 'Rs. 30.00' and ISSN 'ISSN-0566-2257' are in the top right. The main article is by Mohammad Sohail, titled 'Regulatory Governance in Higher Education in India: Challenges before the Proposed Regulatory Framework under National Education Policy–2020'. Other authors listed are Bobby Mahanta, Leela Dhar, and R C Agrawal, with a 'Convocation Address' also mentioned.

UNIVERSITY NEWS

Vol. 61 January 09-15
 No. 02 2023
 Price Rs. 30.00

A Weekly Journal of Higher Education
 Published by the Association of Indian
 Universities

In This Issue

ITEMS	PAGE
Articles	
Regulatory Governance in Higher Education in India: Challenges before the Proposed Regulatory Framework under National Education Policy-2020	3
A Study on the Involvement of Employees towards the Development of the Institution among the Teachers Training Colleges in West Bengal	10
J & K Public Universities Bill, 2022: Prosperity for All Stakeholders in Higher Education System	18
Convocation Address	
University of Agricultural Sciences, Dharwad	21
Communication	
Bond Policy for Doctors after Completion of MBBS in Haryana: A Critique	24
Campus News	28
Theses of the Month (Social Sciences)	32
Advertisement	36

**New Subscription Tariff
 (Effective April 01, 2020)**

Institutions: Academies/ Students (at residential address only)	Inland		Foreign	
	Rs.	Rs.	US\$	US\$
1 year	1250.00	500.00	210.00	170.00
2 years	2200.00	900.00	400.00	300.00

Subscription is payable in advance by Bank Draft/MO only in favour of Association of

Regulatory Governance in Higher Education in India: Challenges before the Proposed Regulatory Framework under National Education Policy-2020

Mohammad Sohail*

Education is fundamental to the socioeconomic development of a country. The three education policies that were adopted post-independence and various committees and commissions set up by governments have dealt in detail with the contribution of education in achieving the goals of development. The National Policy on Education, 2020 states, "Education is fundamental for achieving full human potential, developing an equitable and just society, and promoting national development." Global discourses and international agencies such as the United Nations have also emphasised education as a driver of development and have pressed for the prioritization of educational concerns in national policies. The UN's millennium development goals (MDGs) included education as among its major goals followed by the latest global consensus in the form of Sustainable Development Goals (SDGs). SDG 4 seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" by 2030.

The education system globally consists of three stages/levels; primary, higher secondary, and higher education. Amongst these levels, the role of higher education in the development process is more pronounced and crucial. The research and development activities undertaken in Higher Education Institutions (HEIs) have been significant in putting countries on a higher pedestal of economic growth, finding solutions to socio-political problems, and facilitating technological advancements. Through developing higher-order reasoning skills and exploiting and nurturing intellectual capacities, higher education has not just played a key role in transforming citizens into social capital but immensely helps in inculcating democratic values, realizing the idea of global citizenship and brotherhood, and building a socially just and equitable society.

HRMAS-NMR and simulation study of the self-assembly of surfactants on carbon nanotubes by Raman Preet Singh and Taranpreet Kaur in Physical chemistry chemical Physics

Issue 18, 2023

[Previous Article](#)

[Next Article](#)



From the journal:

Physical Chemistry Chemical Physics

HRMAS-NMR and simulation study of the self-assembly of surfactants on carbon nanotubes†



[Raman Preet Singh](#)  ^{*a} and [Taranpreet Kaur](#) ^b

[+ Author affiliations](#)

Abstract

Polyethoxylated surfactants, such as those of the Tween and Pluronic series, are commonly used to disperse carbon nanotubes (CNTs) and other nanoparticles. However, the current understanding of the nature of interactions between these surfactants and CNTs is limited. The nature of the interactions between surfactants (Tween-80 [T80] and Pluronic F68 [PF68]) and CNTs was investigated using high-resolution magic angle spinning nuclear magnetic resonance (HRMAS-NMR) and coarse-grained molecular dynamics (MD) simulations. HRMAS-NMR revealed that T80 molecules interact with single-walled CNTs (SWCNTs) and multi-walled CNTs (MWCNTs) *via* the oleyl chain, whereas PF68 molecules interact with the surface of SWCNTs and MWCNTs *via* the polypropylene oxide residues. The polyethylene oxide chains were oriented towards the external aqueous environment. The HRMAS-NMR results were supported by MD simulations, and the latter provided further insights into the nature of the interactions.