

INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION AND MANAGEMENT CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.		
1.	FEASIBILITY STUDY OF E-SERVICING ON IRANIAN MUNICIPALITIES (G2C): A CASE STUDY OF AHWAZ MUNCIPALITY DR. MEHRDAD ALIPOUR & SHAHIN KOLIVAND AVARZAMANI			
2.	ANALYSIS OF MOBILE AGENT BASED E-SUPPLY CHAIN MANAGEMENT SYSTEM USING QUEUING THEORY: A COMPARATIVE STUDY BETWEEN M/M/1 AND M/D/1 MODELS DR. RIKTESH SRIVASTAVA			
3.	PREPARING PRE-SERVICE TEACHERS TO INTEGRATE EDUCATIONAL TECHNOLOGY IN THE COLLEGES OF EDUCATION CURRICULUM IN THE CENTRAL REGION OF GHANA ABREH MIGHT KOJO			
4.	THE RELATIONSHIP BETWEEN THE INFORMAL AND FORMAL FINANCIAL SECTOR IN NIGERIA: A CASE STUDY OF SELECTED GROUPS IN LAGOS METROPOLIS ABIOLA BABAJIDE			
5.	AN APPRAISAL OF SERVICE QUALITY MANAGEMENT IN MANAGEMENT EDUCATION INSTITUTIONS: A FACTOR ANALYSIS DR. BHANWAR SINGH RAJPUROHIT, DR. RAJ KUMAR SHARMA & GOPAL SINGH LATWAL	33		
6.	AN EFFECTIVE TOOL FOR BETTER SOFTWARE PRODUCT DR. V.S.P. SRIVASTAV & PIYUSH PRAKASH	44		
7.	HUMAN RESOURCE MANAGEMENT ISSUES FOR IMPROVING THE QUALITY OF CARE IN HEALTH SECTOR: AN EMPIRICAL STUDY SAJI MON M.R, N.MUTHUKRISHNAN & DR. D.S. CHAUBEY	49		
8.	THE EFFECT OF E-MARKETING AND ITS ENVIRONMENT ON THE MARKETING PERFORMANCE OF MEDIUM AND LARGE FINANCIAL SERVICE ENTERPRISES IN ETHIOPIA TEMESGEN BELAYNEH ZERIHUN & DR. V. SHEKHAR	57		
9.	ERGONOMICS RELATED CHANGES ON TRADITIONAL BANKS IN KERALA CONSEQUENT ON CHANGES IN TECHNOLOGY AND ITS IMPACT ON EMPLOYEES DR. P. M. FEROSE	66		
10.	MODERN FACES OF FINANCIAL CRIMES IN ELECTRONIC BANKING SYSTEM VIKAS SHARMA	70		
11.	QUALITY OF SERVICE (QOS) BASED SCHEDULING ENVIRONMENT MODEL IN WIMAX NETWORK WITH OPNET MODELER ARUN KUMAR, DR. A K GARG & ASHISH CHOPRA	73		
12.	A DECENTRALIZED INDEXING AND PROBING SPATIAL DATA IN P2P SYSTEM T. MAHESHWARI & M. RAVINDER	78		
13.	CONVERGENCE TO IFRS - AN INDIAN PERSPECTIVE CA SHOBANA SWAMYNATHAN & DR. SINDHU	81		
14.	COMPARING EFFICIENCY AND PRODUCTIVITY OF THE INDIAN AUTOMOBILE FIRMS – A MALMQUIST –META FRONTIER APPROACH DR. A. VIJAYAKUMAR	86		
15 .	EMERGING TRENDS IN KNOWLEDGE MANAGEMENT IN BANKING SECTOR DR. DEEPIKA JINDAL & VIVEK BHAMBRI	93		
16 .	A STUDY ON CONSUMER ACCEPTANCE OF M-BANKING IN TIRUCHIRAPPALLI CITY S. MOHAMED ILIYAS	97		
17.	TECHNICAL ANALYSIS AS SHORT TERM TRADING STRATEGY IN THE PUBLIC SECTOR BANKS S. VASANTHA	102		
18.	SOFTWARE DEFECTS IDENTIFICATION, PREVENTIONS AND AMPLIFICATION IN SDLC PHASES BHOJRAJ HANUMANT BARHATE	114		
19 .	A STUDY ON TIME MANAGEMENT IN EMERGENCY DEPARTMENT THROUGH NETWORK ANALYSIS IN A CORPORATE HOSPITAL DR. L. KALYAN VISWANATH REDDY & HENA CHOWKSI	118		
20.	MAINTAINING CENTRALIZED BANK INFORMATION FOR GETTING QUICK ACCESS OF INFORMATION OF ALL OTHER ACCOUNTS USING DENORMALIZATION OF DATABASE CONCEPT OF COMPUTER AMIT NIVARGIKAR & PRIYANKA JOSHI	124		
21.	DIGITAL OPPORTUNITIES IN NORTH INDIA: A STUDY ON DIGITAL OPPORTUNITY PARAMETERS AMONG NORTH INDIAN STATES DEEP MALA SIHINT	126		
22.	BUSINESS ETHICS & GOVERNANCE ARIF SULTAN, FATI SHAFAAT & NEETU SINGH	131		
23.	EMPLOYEES' PERCEPTION ON TRAINING AND DEVELOPMENT (A STUDY WITH REFERENCE TO EASTERN POWER DISTRIBUTION OF AP LIMITED) DR. M. RAMESH	134		
24.	AN OPTIMAL BROKER-BASED ARCHITECTURE FOR TRANSACTIONAL AND QUALITY DRIVEN WEB SERVICES COMPOSITION KAVYA JOHNY	140		
25.	WEB USAGE MINING: A BOON FOR WEB DESIGNERS RITIKA ARORA	148		
	REQUEST FOR FEEDBACK	151		

A Monthly Double-Blind Peer Reviewed Refereed Open Access International e-Journal - Included in the International Serial Directories

Indexed & Listed at: Ulrich's Periodicals Directory ©, ProQuest, U.S.A., Index Copernicus Publishers Panel, Poland, Open J-Gage, India,

EBSCO Publishing, U.S.A. as well as in Cabell's Directories of Publishing Opportunities, U.S.A.

Circulated all over the world & Google has verified that scholars of more than Hundred & Eighteen countries/territories are visiting our journal on regular basis.

CHIEF PATRON

PROF. K. K. AGGARWAL

Chancellor, Lingaya's University, Delhi
Founder Vice-Chancellor, Guru Gobind Singh Indraprastha University, Delhi
Ex. Pro Vice-Chancellor, Guru Jambheshwar University, Hisar

PATRON

SH. RAM BHAJAN AGGARWAL

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

CO-ORDINATOR

MOHITA

Faculty, Yamuna Institute of Engineering & Technology, Village Gadholi, P. O. Gadhola, Yamunanagar

ADVISORS

DR. PRIYA RANJAN TRIVEDI

Chancellor, The Global Open University, Nagaland

PROF. M. S. SENAM RAJU

Director A. C. D., School of Management Studies, I.G.N.O.U., New Delhi

PROF. S. L. MAHANDRU

Principal (Retd.), Maharaja Agrasen College, Jagadhri

EDITOR

PROF. R. K. SHARMA

Professor, Bharti Vidyapeeth University Institute of Management & Research, New Delhi

CO-EDITOR

MOHITA

Faculty, Yamuna Institute of Engineering & Technology, Village Gadholi, P. O. Gadhola, Yamunanagar

EDITORIAL ADVISORY BOARD

DR. RAJESH MODI

Faculty, Yanbu Industrial College, Kingdom of Saudi Arabia

PROF. PARVEEN KUMAR

Director, M.C.A., Meerut Institute of Engineering & Technology, Meerut, U. P.

PROF. H. R. SHARMA

Director, Chhatarpati Shivaji Institute of Technology, Durg, C.G.

PROF. MANOHAR LAL

Director & Chairman, School of Information & Computer Sciences, I.G.N.O.U., New Delhi

PROF. ANIL K. SAINI

Chairperson (CRC), Guru Gobind Singh I. P. University, Delhi

PROF. R. K. CHOUDHARY

Director, Asia Pacific Institute of Information Technology, Panipat

DR. ASHWANI KUSH

Head, Computer Science, University College, Kurukshetra University, Kurukshetra

DR. BHARAT BHUSHAN

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

DR. VIJAYPAL SINGH DHAKA

Head, Department of Computer Applications, Institute of Management Studies, Noida, U.P.

DR. SAMBHAVNA

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

DR. MOHINDER CHAND

Associate Professor, Kurukshetra University, Kurukshetra

DR. MOHENDER KUMAR GUPTA

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

DR. SAMBHAV GARG

Faculty, M. M. Institute of Management, Maharishi Markandeshwar University, Mullana

DR. SHIVAKUMAR DEENE

Asst. Professor, Government F. G. College Chitguppa, Bidar, Karnataka

DR. BHAVET

Faculty, M. M. Institute of Management, Maharishi Markandeshwar University, Mullana

ASSOCIATE EDITORS

PROF. ABHAY BANSAL

Head, Department of Information Technology, Amity School of Engineering & Technology, Amity University, Noida
PROF. NAWAB ALI KHAN

Department of Commerce, Aligarh Muslim University, Aligarh, U.P.

DR. ASHOK KUMAR

Head, Department of Electronics, D. A. V. College (Lahore), Ambala City

ASHISH CHOPRA

Sr. Lecturer, Doon Valley Institute of Engineering & Technology, Karnal

SAKET BHARDWAJ

Lecturer, Haryana Engineering College, Jagadhri

TECHNICAL ADVISORS

AMITA

Faculty, Government M. S., Mohali

MOHITA

Faculty, Yamuna Institute of Engineering & Technology, Village Gadholi, P. O. Gadhola, Yamunanagar

FINANCIAL ADVISORS

DICKIN GOYAL

Advocate & Tax Adviser, Panchkula

NEENA

Investment Consultant, Chambaghat, Solan, Himachal Pradesh

LEGAL ADVISORS

JITENDER S. CHAHAL

Advocate, Punjab & Haryana High Court, Chandigarh U.T.

CHANDER BHUSHAN SHARMA

Advocate & Consultant, District Courts, Yamunanagar at Jagadhri

<u>SUPERINTENDENT</u>

SURENDER KUMAR POONIA

CALL FOR MANUSCRIPTS

We invite unpublished novel, original, empirical and high quality research work pertaining to recent developments & practices in the area of Computer, Business, Finance, Marketing, Human Resource Management, General Management, Banking, Insurance, Corporate Governance and emerging paradigms in allied subjects like Accounting Education; Accounting Information Systems; Accounting Theory & Practice; Auditing; Behavioral Accounting; Behavioral Economics; Corporate Finance; Cost Accounting; Econometrics; Economic Development; Economic History; Financial Institutions & Markets; Financial Services; Fiscal Policy; Government & Non Profit Accounting; Industrial Organization; International Economics & Trade; International Finance; Macro Economics; Micro Economics; Monetary Policy; Portfolio & Security Analysis; Public Policy Economics; Real Estate; Regional Economics; Tax Accounting; Advertising & Promotion Management; Business Education; Business Information Systems (MIS); Business Law, Public Responsibility & Ethics; Communication; Direct Marketing; E-Commerce; Global Business; Health Care Administration; Labor Relations & Human Resource Management; Marketing Research; Marketing Theory & Applications; Non-Profit Organizations; Office Administration/Management; Operations Research/Statistics; Organizational Behavior & Theory; Organizational Development; Production/Operations; Public Administration; Purchasing/Materials Management; Retailing; Sales/Selling; Services; Small Business Entrepreneurship; Strategic Management Policy; Technology/Innovation; Tourism, Hospitality & Leisure; Transportation/Physical Distribution; Algorithms; Artificial Intelligence; Compilers & Translation; Computer Aided Design (CAD); Computer Aided Manufacturing; Computer Graphics; Computer Organization & Architecture; Database Structures & Systems; Digital Logic; Discrete Structures; Internet; Management Information Systems; Modeling & Simulation; Multimedia; Neural Systems/Neural Networks; Numerical Analysis/Scientific Computing; Object Oriented Programming; Operating Systems; Programming Languages; Robotics; Symbolic & Formal Logic and Web Design. The above mentioned tracks are only indicative, and not exhaustive.

Anybody can submit the soft copy of his/her manuscript anytime in M.S. Word format after preparing the same as per our submission guidelines duly available on our website under the heading guidelines for submission, at the email addresses: 1 or info@ijrcm.org.in.

JIDELINES FOR SUBMISSION OF MANUSCRIPT

	DATED:
THE EDITOR	
URCM	
Subject: SUBMISSION OF MANUSCRIPT IN THE AREA OF	
(e.g. Computer/IT/Engineering/Finance/Marketing	g/HRM/General Management/other, please specify).
DEAR SIR/MADAM	
DEAN SINY MADAM	
Please find my submission of manuscript titled '	
I hereby affirm that the contents of this manuscript are original. Furthermore, under review for publication anywhere.	, it has neither been published elsewhere in any language fully or partly, nor is it
I affirm that all author (s) have seen and agreed to the submitted version of the	e manuscript and their inclusion of name (s) as co-author (s).
Also, if my/our manuscript is accepted, I/We agree to comply with the formali in any of your journals.	ties as given on the website of journal & you are free to publish our contribution
NAME OF CORRESPONDING AUTHOR:	
Designation:	British Control
Affiliation with full address, contact numbers & Pin Code:	
Residential address with Pin Code:	
Mobile Number (s):	
Landline Number (s):	
E-mail Address:	
Alternate E-mail Address:	

- 2.
- AUTHOR NAME (S) & AFFILIATIONS: The author (s) full name, designation, affiliation (s), address, mobile/landline numbers, and email/alternate email 3. address should be in italic & 11-point Calibri Font. It must be centered underneath the title.
- ABSTRACT: Abstract should be in fully italicized text, not exceeding 250 words. The abstract must be informative and explain the background, aims, methods, results & conclusion in a single para. Abbreviations must be mentioned in full.
- KEYWORDS: Abstract must be followed by list of keywords, subject to the maximum of five. These should be arranged in alphabetic order separated by 5. commas and full stops at the end.

- 6. MANUSCRIPT: Manuscript must be in <u>BRITISH ENGLISH</u> prepared on a standard A4 size <u>PORTRAIT SETTING PAPER</u>. It must be prepared on a single space and single column with 1" margin set for top, bottom, left and right. It should be typed in 8 point Calibri Font with page numbers at the bottom and centre of the every page. It should be free from grammatical, spelling and punctuation errors and must be thoroughly edited.
- 7. **HEADINGS**: All the headings should be in a 10 point Calibri Font. These must be bold-faced, aligned left and fully capitalised. Leave a blank line before each heading.
- 8. SUB-HEADINGS: All the sub-headings should be in a 8 point Calibri Font. These must be bold-faced, aligned left and fully capitalised.
- 9. MAIN TEXT: The main text should follow the following sequence:

INTRODUCTION

REVIEW OF LITERATURE

NEED/IMPORTANCE OF THE STUDY

STATEMENT OF THE PROBLEM

OBJECTIVES

HYPOTHESES

RESEARCH METHODOLOGY

RESULTS & DISCUSSION

FINDINGS

RECOMMENDATIONS/SUGGESTIONS

CONCLUSIONS

SCOPE FOR FURTHER RESEARCH

ACKNOWLEDGMENTS

REFERENCES

APPENDIX/ANNEXURE

It should be in a 8 point Calibri Font, single spaced and justified. The manuscript should preferably not exceed 5000 words.

- 10. **FIGURES &TABLES**: These should be simple, centered, separately numbered & self explained, and **titles must** be above the table/figure. Sources of data should be mentioned below the table/figure. It should be ensured that the tables/figures are referred to from the main text.
- 11. **EQUATIONS**: These should be consecutively numbered in parentheses, horizontally centered with equation number placed at the right.
- 12. **REFERENCES**: The list of all references should be alphabetically arranged. The author (s) should mention only the actually utilised references in the preparation of manuscript and they are supposed to follow **Harvard Style of Referencing**. The author (s) are supposed to follow the references as per following:
- All works cited in the text (including sources for tables and figures) should be listed alphabetically.
- Use (ed.) for one editor, and (ed.s) for multiple editors.
- When listing two or more works by one author, use --- (20xx), such as after Kohl (1997), use --- (2001), etc, in chronologically ascending order.
- Indicate (opening and closing) page numbers for articles in journals and for chapters in books.
- The title of books and journals should be in italics. Double quotation marks are used for titles of journal articles, book chapters, dissertations, reports, working papers, unpublished material, etc.
- For titles in a language other than English, provide an English translation in parentheses.
- The location of endnotes within the text should be indicated by superscript numbers.

PLEASE USE THE FOLLOWING FOR STYLE AND PUNCTUATION IN REFERENCES:

BOOKS

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

CONTRIBUTIONS TO BOOKS

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

JOURNAL AND OTHER ARTICLES

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

CONFERENCE PAPERS

 Garg Sambhav (2011): "Business Ethics" Paper presented at the Annual International Conference for the All India Management Association, New Delhi, India, 19–22 June.

UNPUBLISHED DISSERTATIONS AND THESES

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

ONLINE RESOURCES

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

WEBSITE

Garg, Bhavet (2011): Towards a New Natural Gas Policy, Political Weekly, Viewed on December 17, 2011 http://epw.in/user/viewabstract.jsp

AN EFFECTIVE TOOL FOR BETTER SOFTWARE PRODUCT

DR. V.S.P. SRIVASTAV
HEAD (COMPUTER DIVISION)
INDRA GANDHI NATIONAL OPEN UNIVERSITY
NEW DELHI

PIYUSH PRAKASH

RESEARCH SCHOLAR

SCHOOL OF COMPUTER & INFORMATION SCIENCES

INDRA GANDHI NATIONAL OPEN UNIVERSITY

NEW DELHI

ABSTRACT

Metrics are more accurate when they are derived from well defined completion criteria for software products and their intermediate modules. Product metrics are also known as quality metrics and are used to measure the properties of the software. Weighted defect are derived from defect information. Weighted defects are calculated with the help of severity of errors found in the software. Each open defect is associated with a number as its severity.

KFYWORDS

Software Testing Metrics, Software Testing Product Metrics, Weighted Defect.

INTRODUCTION

easurement activities must be designed and targeted to support the business goals and they must provide effective and economical information for decision making. Technology or software product per se can neither be effective nor practical without measurements. We analyze the software in order to understand its behavior with respect to both time and space to improve, if derived so. Software metrics are used to quantify software products, software development resources, and/or the software development process. This includes items which are directly measurable, such as lines of code, as well as items which are calculated from measurements, such as software quality. Metrics must have well defined goal and must be reviewed regularly and acted upon. Metrics will be maintained and not perceived as a burden when the raw data, used to construct the metrics, are recorded as a natural part of work/process. In the field of software development, software metrics are collected at various stages in the development cycle, and utilized to evaluate the quality of a software product. They are also considered as the most critical factors to identify potentially error-prone modules in software systems, so that extra development and maintenance effort can be measured in those modules.

METRICS

A. DEFECT FIXED % METRICS (DF%)

It shows the relation between the defects which are Fixed with respect to the total number of defects in the project. The relation is expressed as DF%=((TD - TDNF) / TDNF)*100

Where TD stands for Total Number of Defects and TDNF stands for Total Number of Defects Not fixed.

B. CHANGED OR ADDED CODE METRICS (COAD)

It shows the relation between the actual numbers of SLOC changed or added with respect to the total number of SLOC in the project. The relation is expressed as

COAD = TCAC / (TCAC - TBLC)

Where TCAC stands for Total Changed or Added Code and TBLC stands for Total Blank Line of Code.

WEIGHTED DEFECTS

Weighted defect data are derived from defect information. Through real life explanation, it is found that the severity of defects (i.e. how important or serious the defect is) is a very important factor for software quality. When a defect is opened, it is associated with a number as its severity. This number is an integer between one to five, one corresponds to the most serious defects whereas five for the least serious defects. We define each and every severity in Table 1.

TABLE 1: DESCRIPTION OF EACH SEVERITY

SEVERITY	WHAT IT MEANS
1	The basic product functionality failing or product crashes.
2	Unexpected error condition or a functionality not working.
3	A minor functionality is failing or behaves differently than expected.
4	Cosmetic issue and no impact on the users.
5	Least Serious Defects

To incorporate this aspect, weighted defect numbers instead of merely defect numbers were used. A weight to each severity is assigned, i.e., weight of severity level one is 5, weight of severity level two is 4, weight of severity level three is 3, weight of severity four is 2, and weight of severity five is 1. The weighted defect number W is the sum of number of defects multiplied by associated weights for each severity level. Table 2 contains the data to explain how to calculate W. For example, assume the product has the following distribution of defects:

.TABLE 2: EXAMPLE OF WEIGHTED DEFECT NUMBER

Severity Level	1	2	3	4	5
Weighted Assigned	5	4	3	2	1
Number of Defects	20	18	25	12	65

The calculated value of weighted defect number W based on the above Table 2, is: W = (5*20) + (4*18) + (3*25) + (2*12) + (1*65) = 336

THE METRICS

Proposed Metric:

Definition: It is the metrics that captures the relation between the total number of weighted defects that are fixed and the total number of weighted defects. The relation may be expressed as $[W_o/(W_o+W_v)]*100$

Where W_D denotes the number of weighted defects that are fixed and W_V denotes the number of weighted defects that are not fixed. Above relation shows the formula about 'How Defects Found and Fixed'.

Calculation of W_p and W_v are as follow:

For W_p

Fieldname Used: DEFECT_ID, SEVERITY

CLOSE REASON, HOW FOUND

- Find the number of fixed defects for each severity level (Xi)
- Multiply X_i with weights (assigned on the basis of severity) W_i (ii)
- (iii) Calculate W_p=∑X_iW_i

For W_v

Fieldname Used: DEFECT_ID, SEVERITY

CLOSE_REASON, HOW_FOUND

- Find the number of defects for each severity level which are not fixed (Yi)
- Multiply X_i with weights (assigned on the basis of severity) W_i (ii)
- (iii) Calculate Wv=ΣY_iW_i

There are three major phases in our project: (i) data collection phase, (ii) metrics calculation phase, and (iii) result analysis phase.

(i) DATA COLLECTION

Based on the definitions of the metrics, a list of variables has been derived for which the collection of data is required in this phase. They have been extracted from the website of NASAs Metric Data Program — Repository access where data for certain projects are available. The Metrics Data Repository has been used for three projects i.e. KC 1, KC3 and KC4 for the calculation and analysis of the proposed metrics. KC1, KC3 and KC4have been used to represent thousands of source line of codes written in C++, JAVA and PERL respectively. KC1 denotes 43 thousands line of source code in C++, KC3 denotes 18 thousands line of source code in JAVA where as KC4 denotes 25 thousands of source code in PERL.NASA use KSLOC to denote thousands source line of codes to explain KCs.

(ii) METRIC CALCULATION

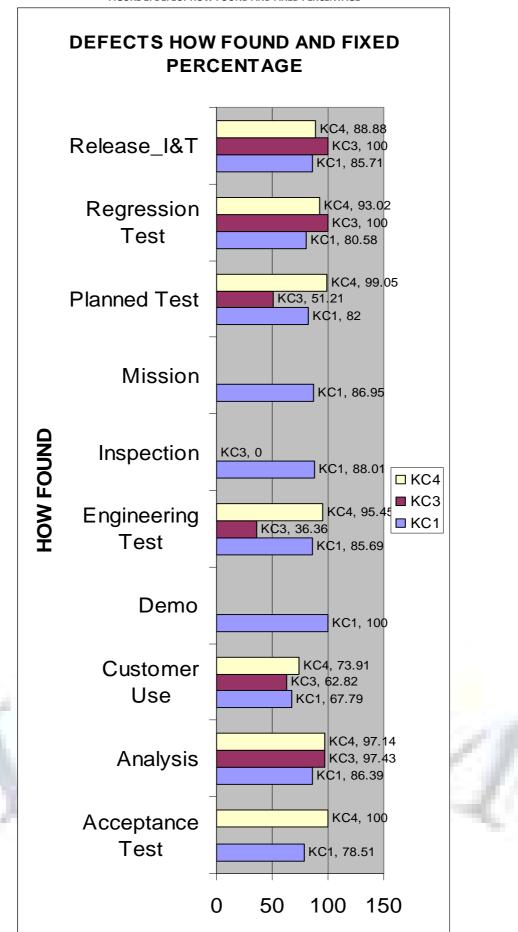
In the data collection phase, we have collected information for all the variables required to calculate the metrics. After all the metrics have been calculated, Table 3 created as below represents the values obtained for all the three projects **TABLE 3: PROPOSED METRICS RESULT**

Name of Proposed Metric							
Defect How Found and Fixed Percentage = [W _p /(W _p +W _v)]*100							
HOW FOUND		Project KC 1 (%)	Project KC 3 (%)	Project KC 4 (%)			
a)	Acceptance Test	78.51		100			
b)	Analysis	86.39	97.43	97.14			
c)	Customer Use	67.79	62.82	73.91			
d)	Demo	100					
e)	Engineering Test	85.69	36.36	95.45			
f)	Inspection	88.01	0				
g)	Mission(Critical, Success, Essential)	86.95					
h)	Planned Test	82	51.21	99.05			
i)	Regression Test	80.58	100	93.02			
j)	Release_I&T	85.71	100	88.88			

The graphical presentation shown in Figure 1 represents the 'Defect How Found and Fixed Percentage' of three projects according to 'How Found Defects':



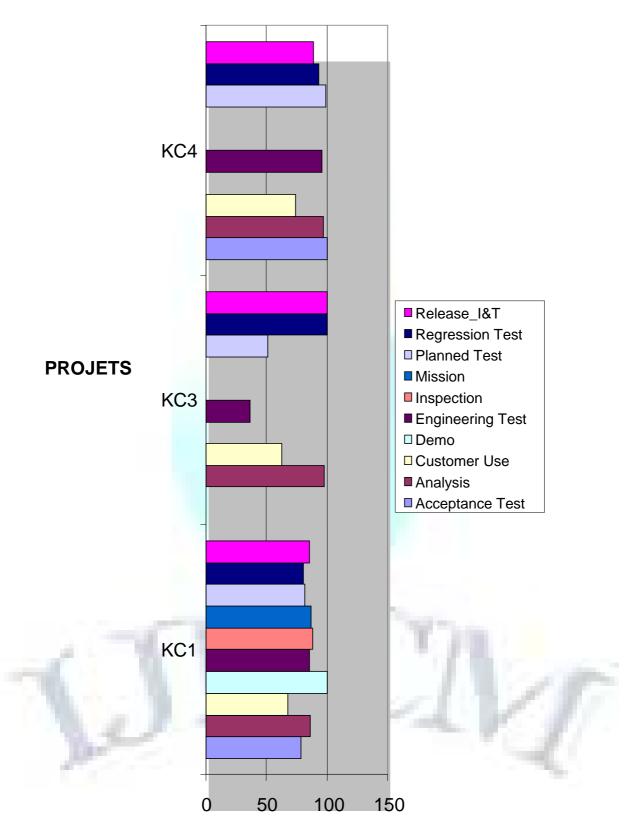
FIGURE 1: DEFECT HOW FOUND AND FIXED PERCENTAGE



The graphical presentation shown in Figure 2 represents the 'Defect How Found and Fixed Percentage' of three projects according to projects:

FIGURE 2: DEFECT HOW FOUND AND FIXED PERCENTAGE

DEFECTS HOW FOUND AND FIXED PERCENTAGE



(iii) RESULT ANALYSIS

The above metric states that value of the percentage is proportionate to the ratio of defects fixed. That is higher the percentage, we have higher ratio of defects fixed. Amongst the three projects i.e. KC1, KC3 and KC4 on C++, JAVA and PERL respectively, project KC4 has the maximum defects removed.

REFERENCES

- 1. C. Lewerentz and F. Simon. A product metrics tool integrated into a software developmentenvironment. In S. Demeyer and J. Bosch, editors, Object-Oriented Technology (ECOOP'98 Workshop Reader), LNCS 1543, pages 256 257. Springer-Verlag, 1998.
- 2. http://mdp.ivv.nasa.gov/repository.html
- 3. L.C. Briand, W.L. Melo, and J. Wu. st, "Assessing the applicability of Fault-Proneness Models across Object-Oriented Software Projects," IEEE Trans. Software Eng., vol. 28, no. 7, pp. 706-720, July 2002.
- 4. N. Fenton and S. L. Pfleeger. "Software Metrics: A Rigorous and Practical Approach", International Thomson Computer Press, London, UK, second edition, 1997.
- 5. Srinivasan Desikan, Gopalaswamy Ramesh "Software Testing: Principles and Practice"
- 6. Srivastav Vijay, Prakash Piyush "Using Software Metrics to Improve Software Quality" Proceeding of the 25th & 26th December 2010 International Conference of the IETAN, Chandigarh, India.
- 7. William A. Florac, Robert E. Park, Anita D. Carleton, Practical Software Measurement: Measuring for Process Management and Improvement, Handbook CMU/SEI-97-HB-003, Carnegie Mellon University, April 1997.
- 8. Yanping Chen, Robert L. Probert, Kyle Robenson "Effective Test Metrics for Test Strategy Evolution" Proceedings of the 2004 Conference of the centre for Advanced Studies on Collaborative Research CASCON'04,2004.



REQUEST FOR FEEDBACK

Dear Readers

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

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

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

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

Looking forward an appropriate consideration.

With sincere regards

Thanking you profoundly

Academically yours

Sd/-

Co-ordinator