

# INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT

I  
J  
R  
C  
M



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

*Indexed & Listed at:*

Ulrich's Periodicals Directory ©, ProQuest, U.S.A., EBSCO Publishing, U.S.A., Cabell's Directories of Publishing Opportunities, U.S.A.

Open J-Gate, India [link of the same is duly available at Inlibnet of University Grants Commission (U.G.C.)].

Index Copernicus Publishers Panel, Poland with IC Value of 5.09 & number of libraries all around the world.

Circulated all over the world & Google has verified that scholars of more than 3770 Cities in 175 countries/territories are visiting our journal on regular basis.

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

<http://ijrcm.org.in/>

# CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	<b>USING CYBER PEDAGOGY (WIBEKI/01/2014) MODEL TO INITIATE MULTILITERACIES AND PROMOTE A VIRTUAL CLASSROOM: A PILOT STUDY</b> <i>WILLIAM NKOMO, BERTHA KARIMBIKA &amp; KITSO MOLEFE</i>	1
2.	<b>THE RIGHT TO HEALTH – A CONSTITUTIONAL VIEW</b> <i>HIRANMAYA NANDA &amp; DR. JAYADEV PATI</i>	11
3.	<b>FINANCIAL PERFORMANCE OF SELECT PRIVATE SECTOR BANKS USING CAMEL APPROACH</b> <i>DR. H N SHIVAPRASAD</i>	14
4.	<b>A COMPARATIVE STUDY OF SELECTED EQUITY DIVERSIFIED SCHEMES IN MUTUAL FUND</b> <i>DR. VIJAY H. VYAS</i>	24
5.	<b>THE INFLUENCE OF INTELLIGENT TRANSPORTATION SPACES IN INTELLIGENT TRANSPORTATION SYSTEM</b> <i>KALAISELVI S, SANGEETHALAKSHMI G &amp; SIVASANKARI A</i>	33
6.	<b>A STUDY ON THE SOCIO-ECONOMIC CHARACTERISTICS OF INTERNET BANKING ADOPTERS IN CHENNAI METROPOLITAN CITY WITH REFERENCE TO INDIAN BANK</b> <i>P.SARAVANAN &amp; P.SRIDHARAN</i>	37
7.	<b>COMPARATIVE STUDY OF NEW RAPID BUSINESS PROCESS MODEL WITH EXISTING MODEL BPMN AND UML-AD</b> <i>AMIT LAXMIDAS VADERA &amp; DR. YOGESH R. GHODASARA</i>	42
8.	<b>A DETAILED STUDY ON QUALITY OF SERVICE IN COMPUTER NETWORKS</b> <i>HARIPRIYA N, SANGEETHALAKSHMI G &amp; SIVASANKARI A</i>	48
9.	<b>TATA GROUP AND CSR: AN EXEMPLARY CASE REVIEW</b> <i>KOMAL CHAUDHARY</i>	52
10.	<b>THREE DIMENSIONAL HEALING: BENEFITS FROM THE WELLNESS</b> <i>DR. VANDANA DESWAL</i>	55
11.	<b>EMOTIONAL INTELLIGENCE AND JOB PERFORMANCE IN SERVICE INDUSTRY</b> <i>PREETI BHASKAR</i>	60
12.	<b>AN OVERVIEW OF THE BANKING INDUSTRY IN INDIA</b> <i>DR. SHILPAN D. VYAS &amp; PARINA S. VYAS</i>	66
13.	<b>COUNTERFEITING GOODS IN GULF BUSINESS: ANY ECONOMIC IMPACT?</b> <i>DR. THRESIAMMA VARGHESE &amp; KARIMA AL. QARTOOPI</i>	74
14.	<b>GREEN MARKETING: AN INDIAN EXPERIENCE</b> <i>KANCHAN SEHRAWAT, AMOGH TALAN, DR. A. K. TYAGI &amp; GAURAV TALAN</i>	77
15.	<b>ROLE OF RBI AND GOVERNMENT OF INDIA TOWARDS FINANCIAL INCLUSION OF THE RURAL POOR: ISSUES AND SUGGESTIONS</b> <i>MANOHAR LAMANI &amp; SANGANAGOUDA PATIL</i>	81
16.	<b>CORPORATE SOCIAL RESPONSIBILITY: REGULATION AND ITS SURVEILLANCE</b> <i>RACHANA VISHWAKARMA</i>	85
17.	<b>PAGE RANK ALGORITHMS BASED ON WEB CONTENT MINING AND WEB STRUCTURE MINING</b> <i>N.KANCHANA</i>	90
18.	<b>WEB CONTENT MANAGEMENT SYSTEM: COMPONENTS AND SECURITY</b> <i>OMOSEBI, PAUL ADEOYE &amp; OLORUNLEKE, FEHINTOLUWA E.</i>	93
19.	<b>DETERMINANTS AND PROSPECTS OF ECONOMIC GROWTH IN ETHIOPIA</b> <i>HABTAMU NIGATU ELALA</i>	96
20.	<b>HIGHLY SECURED LOSSLESS IMAGE CRYPTOGRAPHY ALGORITHM BASED ON HAAR WAVELET TRANSFORM</b> <i>MAHIMA GUPTA</i>	105
	<b>REQUEST FOR FEEDBACK &amp; DISCLAIMER</b>	108

## CHIEF PATRON

**PROF. K. K. AGGARWAL**

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

## FOUNDER PATRON

**LATE SH. RAM BHAJAN AGGARWAL**

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

## CO-ORDINATOR

**DR. SAMBHAV GARG**

Faculty, Shree Ram Institute of Business & Management, Urjani

## 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

## 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, Chhatrapati 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**

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

**DR. SAMBHAVNA**

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

**DR. MOHINDER CHAND**

Associate Professor, Kurukshetra University, Kurukshetra

**DR. MOHENDER KUMAR GUPTA**

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

**DR. SAMBHAV GARG**

Faculty, Shree Ram Institute of Business & Management, Urjani

**DR. SHIVAKUMAR DEENE**

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

**DR. BHAVET**

Faculty, Shree Ram Institute of Business & Management, Urjani

***ASSOCIATE EDITORS***

**PROF. ABHAY BANSAL**

Head, Department of Information Technology, Amity School of Engineering & Technology, Amity University, Noida

**PROF. NAWAB ALI KHAN**

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

**ASHISH CHOPRA**

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

***TECHNICAL ADVISOR***

**AMITA**

Faculty, Government M. S., Mohali

***FINANCIAL ADVISORS***

**DICKIN GOYAL**

Advocate & Tax Adviser, Panchkula

**NEENA**

Investment Consultant, Chambaghat, Solan, Himachal Pradesh

***LEGAL ADVISORS***

**JITENDER S. CHAHAL**

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

**CHANDER BHUSHAN SHARMA**

Advocate & Consultant, District Courts, Yamunanagar at Jagadhri

***SUPERINTENDENT***

**SURENDER KUMAR POONIA**

## CALL FOR MANUSCRIPTS

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

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

## GUIDELINES FOR SUBMISSION OF MANUSCRIPT

1. **COVERING LETTER FOR SUBMISSION:**

DATED: \_\_\_\_\_

**THE EDITOR**  
IJRCM

**Subject: SUBMISSION OF MANUSCRIPT IN THE AREA OF**

(e.g. Finance/Marketing/HRM/General Management/Economics/Psychology/Law/Computer/IT/Engineering/Mathematics/other, please specify)

**DEAR SIR/MADAM**

Please find my submission of manuscript entitled '\_\_\_\_\_ ' for possible publication in your journals.

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

I affirm that all the author (s) have seen and agreed to the submitted version of the 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 formalities as given on the website of the journal & you are free to publish our contribution in any of your journals.

**NAME OF CORRESPONDING AUTHOR:**

Designation:  
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:

**NOTES:**

- a) The whole manuscript is required to be in **ONE MS WORD FILE** only (pdf. version is liable to be rejected without any consideration), which will start from the covering letter, inside the manuscript.
- b) The sender is required to mention the following in the **SUBJECT COLUMN** of the mail:  
**New Manuscript for Review in the area of** (Finance/Marketing/HRM/General Management/Economics/Psychology/Law/Computer/IT/Engineering/Mathematics/other, please specify)
- c) There is no need to give any text in the body of mail, except the cases where the author wishes to give any specific message w.r.t. to the manuscript.
- d) The total size of the file containing the manuscript is required to be below **500 KB**.
- e) Abstract alone will not be considered for review, and the author is required to submit the complete manuscript in the first instance.
- f) The journal gives acknowledgement w.r.t. the receipt of every email and in case of non-receipt of acknowledgment from the journal, w.r.t. the submission of manuscript, within two days of submission, the corresponding author is required to demand for the same by sending separate mail to the journal.

2. **MANUSCRIPT TITLE:** The title of the paper should be in a 12 point Calibri Font. It should be bold typed, centered and fully capitalised.

3. **AUTHOR NAME (S) & AFFILIATIONS:** The author (s) **full name, designation, affiliation (s), address, mobile/landline numbers, and email/alternate email address** should be in italic & 11-point Calibri Font. It must be centered underneath the title.

4. **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.

5. **KEYWORDS:** Abstract must be followed by a list of keywords, subject to the maximum of five. These should be arranged in alphabetic order separated by commas and full stops at the end.
6. **MANUSCRIPT:** Manuscript must be in **BRITISH ENGLISH** prepared on a standard A4 size **PORTRAIT SETTING PAPER**. 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 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, crystal clear, 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 the following:
  - All works cited in the text (including sources for tables and figures) should be listed alphabetically.
  - Use (ed.) for one editor, and (ed.s) for multiple editors.
  - When listing two or more works by one author, use --- (20xx), such as after Kohl (1997), use --- (2001), etc, in chronologically ascending order.
  - Indicate (opening and closing) page numbers for articles in journals and for chapters in books.
  - The title of books and journals should be in 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, Nigeria.

**CONTRIBUTIONS TO BOOKS**

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

**JOURNAL AND OTHER ARTICLES**

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

**CONFERENCE PAPERS**

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

**WEBSITES**

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

**COMPARATIVE STUDY OF NEW RAPID BUSINESS PROCESS MODEL WITH EXISTING MODEL BPMN AND UML-AD**

**AMIT LAXMIDAS VADERA**  
**ASST. PROFESSOR, SUNSHINE GROUP OF INSTITUTIONS; &**  
**RESEARCH SCHOLAR**  
**SCHOOL OF SCIENCE (COMPUTER SCIENCE)**  
**RK UNIVERSITY**  
**RAJKOT**

**DR. YOGESH R. GHODASARA**  
**ASSOCIATE PROFESSOR**  
**COLLEGE OF AGRICULTURAL INFORMATION TECHNOLOGY**  
**ANAND AGRICULTURAL UNIVERSITY**  
**ANAND**

**ABSTRACT**

Now a day's to design a new business software process, various Business Process Model's are available in the market. Interest to evaluate this study is that all the enterprises or an organization need to satisfy their business objectives easily and speedily with minimum efforts and cost. To accomplish this they must select any one model which is available in the market. Basic aim of our study is to develop a new business process models and make comparison with available other business process models like UML-AD – Unified Modeling Language Activity Diagram and BPMN – Business Process Model Notation to identify which model is appropriate for the business stakeholders of any enterprise or organization to achieve specified goal. In this paper we address to create a Business Process Model, which is a mixture of graphical notations and supporting information using semantic annotation to strive any business process very speedily and easily.

**KEYWORDS**

Business Processes, graphical notations, semantic annotation, Stakeholders.

**1. INTRODUCTION**

**B**usiness Process Model is the activity to represent business processes graphically for an enterprise or an organization, so other professional may improve the current process.

Main approach of this paper is to create a Model, which is a mixture of standard graphical notations and supporting information using semantic annotation to create a common business model understood by all the business stakeholders.

**2. WHY USE NEW RAPID BPM?**

- Simple to learn and enough powerful to depict the potential complexities of a business process.
- Better understanding of Processes, which are core part of any organization, yet they are not always clearly defined, documented or optimized.
- You can start working very quickly with these notations.
- If necessary, with this model you can describe precisely how a process functions.
- To bridge the communication gap between business and IT is stronger then ever require.
- To do the work more efficiently, organizations must form a clear view of how their processes are operate.

3. DESCRIPTION OF VARIOUS BUSINESS PROCESS MODEL

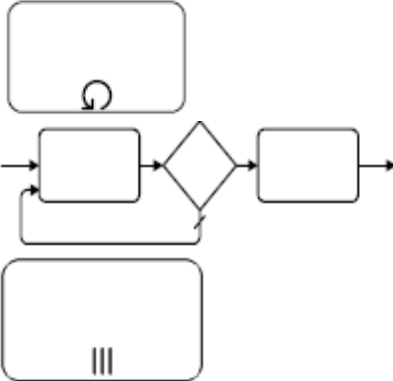
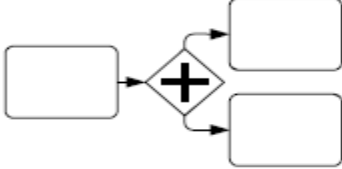
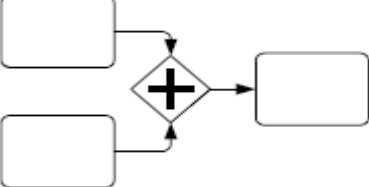


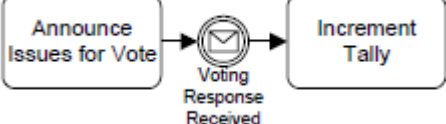


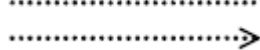

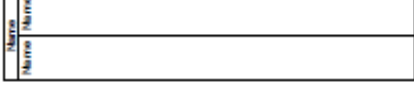

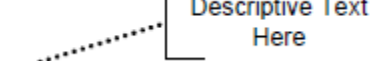
TABLE 1: ELEMENTS NAME USED FOR BPMN – UML(AD) AND RAPID BPM

Sr. No.	Names used for BPMN Elements	Names used for UML–AD Activity Diagram Elements	Names used for Rapid BPM Elements
1	Fork	Action Node	Start / Stop
2	Join	Accept Event Action Node	Chapter / Task
3	Activity / Task	Send Signal Action Node	Method
4	Data Object	Sub Activity Node	Person / Unit
5	Process Break	Object Node	Flows
6	Transaction	Object Node with accepting time	Choice
7	Off-Page Connector	Object Node With Signal as type	Data Storage
8	Association	Edges	Annotation
9	Pool	Decision / Marge Node	
10	Lane	Fork / Join Node	
11	Group	Initial Node	
12	Text Annotation	Activity Final Node	
13	Start Event	Flow Final	
14	Message Start Event	Partition	
15	Timer Start Event	Partition with Swim Lane	
16	Rule Start Event		
17	Link Start Event		
18	Multiple Start Event		
19	Intermediate Event		
20	Message Intermediate Event		
21	Timer Intermediate Event		
22	Exception Intermediate Event		
23	Cancel Intermediate Event		
24	Compensation Intermediate Event		
25	Rule Intermediate Event		
26	Link Intermediate Event		
27	Multiple Intermediate Event		
28	End Event		
29	Message End Event		
30	Exception End Event		
31	Cancel End Event		
32	Compensation End Event		
33	Link End Event		
34	Multiple End Event		
35	Terminate End Event		
36	Collapsed Sub-Process		
37	Expanded Sub-Process		
38	Exclusive Gateway		
39	Inclusive Gateway		
40	Complex Gateway		
41	Parallel Gateway		
42	Normal Flow		
43	Uncontrolled flow		
44	Conditional flow		
45	Default flow		
46	Exception Flow		
47	Message Flow		
48	Compensation Association		
49	Activity Looping		
50	Sequence Flow Looping		
51	Multiple Instances		



<sup>[1]</sup>TABLE 2: ELEMENTS/SYMBOL USED FOR BPMN

BPMN			Elements / Symbols																		
Event																					
Start	Intermediate	End																			
Start	Intermediate	End																			
Message	Message	Message																			
Timer	Timer	Exception																			
Rule	Exception	Cancel																			
Link	Cancel	Compensation																			
Multiple	Compensation	Link																			
	Rule	Multiple																			
	Link	Terminate																			
	Multiple																				
Sub Process																					
Gateway			<p><b>Exclusive (XOR) Data-Based</b>  or </p> <p><b>Event-Based</b> </p> <p><b>Inclusive (OR)</b> </p> <p><b>Complex</b> </p> <p><b>Parallel (AND)</b> </p>																		
Sequence Flow																					

<p>Looping</p> <table border="1" style="width: 100%;"> <tr> <td>Activity Looping</td> </tr> <tr> <td>Sequence Flow Looping</td> </tr> <tr> <td>Multiple Instances</td> </tr> </table>	Activity Looping	Sequence Flow Looping	Multiple Instances	
Activity Looping				
Sequence Flow Looping				
Multiple Instances				
<p>Fork</p>				
<p>Join</p>				
<p>Activity / Task</p>				
<p>Data Object</p>				
<p>Process Break</p>				
<p>Transaction</p>				
<p>Off-Page Connector</p>				
<p>Association</p>				
<p>Pool</p>				
<p>Lane</p>				
<p>Group</p>				
<p>Text Annotation</p>				

<sup>[2]</sup>TABLE 3: ELEMENTS/SYMBOL USED FOR UML-AD





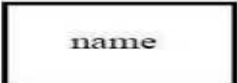










UML – AD	Elements / Symbols
Action Node	
Accept Event Action Node	
Send Signal Action Node	
Sub Activity Node	
Object Node	
Object Node with accepting time	
Object Node With Signal as type	
Edges	
Decision / Marge Node	
Fork / Join Node	
Initial Node	
Activity Final Node	
Flow Final	
Partition	
Partition with Swim Lane	

TABLE 4: ELEMENTS/SYMBOL USED FOR NEW RAPID BPM

New Rapid BPM	Elements / Symbols
<b>Start / Stop</b> <ul style="list-style-type: none"> <li>A Start symbol represents opening of any chapter means from where any trigger will be fire.</li> <li>A Stop symbol represents closing of any chapter.</li> <li>A Carry symbol represents closing of current chapter and carry on to new chapter.</li> </ul>	
<b>Chapter / Task</b> A Chapter or Task is a unit of work. It is a job to be performed or an activity within a process flow.	
<b>Method</b> A Method is a collapsed sub process. It is used for decomposable chapter means it is also linked with another process diagram.	
<b>Person / Unit</b> It represents responsibilities for activities in a process. It can be any organization, any system or any role.	
<b>Data Storage</b> Data Storage represents information flow come through the process, may be business documents, any letters or emails. Data storage is also a place, where we can write or read data which is store lifetime for the process.	
<b>Choice</b> A Choice represents splitting. It moves the flow more than one side based on alternates or conditions.	
<b>Flows</b> <ul style="list-style-type: none"> <li>A Sequential Flow represents sequence to be executing chapter or method. It also represents flow of any process.</li> <li>A Timer Flow represents sequence to execute chapter or method with certain amount of time. It is also used for certain processes, which is ongoing or working.</li> <li>A Split Flow represent all outgoing branches are activated simultaneously.</li> <li>A Merge flow represents parallel branches, which hang around for all incoming flows to complete before generating the outgoing flow.</li> </ul>	 Sequential Flow
	 Timer Flow
	 Split Flow
	 Merge Flow
<b>Annotation</b> An Annotation represents additional documentation or information with each symbol.	

4. CONCLUSION

	BPMN	UML-AD	New Rapid BPMN
No of Symbols Used	51	15	8
Process Oriented with	Business	Activity	Business and Activity Both
Starting Event	Complexity Generated	Not Clear	Easy to Understand
Timing Task	Using Process Break	Not Used	Using Timer Flow (need not require to break process)
Role Define	Using Lane	Using swim lane	Using Specific Role (person/unit) with lane
Data storage	Using Data Object	Not Used	Using Data Storage with annotation
Annotation / Documentation	Too Much Used	Not Used	Appropriate Used
Over all Understanding	Complex	Moderate	Very Good

REFERENCES

- An Introduction to BPMN for Business People visited on [http://www.slideshare.net/Michael\\_Moyal/bpmn-for-business-people](http://www.slideshare.net/Michael_Moyal/bpmn-for-business-people) dated dec-14
- BPMN tutorial Process modeling using BPMN visited on website <http://www.bpmn-tool.com/en/tutorial/> dated dec-14

## **REQUEST FOR FEEDBACK**

**Dear Readers**

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

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

If you have any queries please feel free to contact us on our E-mail [infoijrcm@gmail.com](mailto: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**

## **DISCLAIMER**

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

## ABOUT THE JOURNAL

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

### *Our Other Journals*

