

LIST OF PAPERS PUBLISHED in 2017

S	Author (Including Co- author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Conferen ce/Book Chapter)	National/ Internatio nal	Journal Impact No./SCI Index/ISBN No/ISSN No.
1	Dharmpal Singh, J. P. Choudhury and M. De	An Enhance DE algorithm for analysis in data set	International Journal of Data Science (Accepted)	Journal	International	Inderscience
2	Dharmpal Singh	An effort to design an integrated system to extract information under the domain of metahuristics	International Journal of Computer Sciences and Engineering, Page No (51-55)	Journal	International	Scopus
3	Dharmpal Singh	An effort to design an integrated system to extract information under the domain of metahuristics	International Journal of Artificial Intelligence and Soft Computing (IJAISC)	Journal	International	Inderscience
4	Dharmpal Singh	A New Bio-inspired Algorithm: Lizard Optimization Algorithm	International Journal of Technological Learning, Innovation and Development (IJTLID) (Communicated)	Journal	International	Scopus
5	S. Sahana, S. Basak, S. Chowdhury	“Gesture Controlled Drawer for Smart Home”	International Journal of Latest Trends in Engineering and Technology Vol.(8) Issue(2), pp.289-296 March 2017	Journal	International	e-ISSN:2278-621X
6	J. Khan, S. Sengupta, S. Sahana	Multi-Layered RGB Based Secure Technique For Data Transfer	Global Journal of Engineering Science and Research Management volume 4 issue 3 March 2017 DOI: 10.5281/zenodo.439256	Journal	International	ISSN 2349-4506
7	Sumanta Chatterjee , Sumit Shaw Bhartendu chandraveer, Abhishek Baranwal	Agile techniques and frameworks based on the E - marketing model of Electronic commerce for digitizing customize bike industry.	Trinity of MUDRA, Start- Up India and Stand-Up India Schemes : Prospects and Challenges” on 24–25 February 2017, Poornima University,Jaipur	conference	National	
8	Sumanta Chatterjee	Inter An Integrated B2b And B2c E- Commerce Portal For Online Medicine Shopping And Searching national Conference	International Conference On Information, Communication And Computing Technology, New Delhi Spinger(Communicated)	Conference	International	

9	Dharpal Singh	Cloud Computing Environment in Big Data for Education		Book Chapter		

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1.	Indranil Guha, Nirmal Das, Pranati Rakshit, Mita Nasipuri, Punam Saha and Subhadip Basu	"Design of cerebrovascular phantoms using fuzzy distance transform based geodesic paths"	International conference on Advanced Computing, Networking, and Informatics [ICACNI – 2016] Centre for Computer Vision & Pattern Recognition National Institute of Technology Rourkela Odisha - 769 008, India & Liverpool John Moors University, UK	conference	International	-
2.	Sreeparna Ganguly, Pranati Rakshit	"An Enhanced Method for Least Significant Bit Image Steganography Using Discrete Logarithmic Dispersion Strategy"	International journal of computer Application	journal	International	ISSN 0123- 4560
3.	Pranati Rakshit, Nirmal Das, Mita Nasipuri, Subhadip Basu	"Hemodynamic Analysis on Human Cerebrovascular Phantom with and without Aneurysm"	Springer, Second International conference on computing and communication system(i3cs), 2016, NEHU, Shillong	conference	International	
4.	Pranati Rakshit, Nirmal Das, Mita Nasipuri, Subhadip Basu	"A Qualitative Hemodynamic Analysis on Human Cerebrovascular Phantom"	Springer, 1 st conference on Advanced computing and Intelligent Engineering, CV Raman college of engg, Bhubaneswar, 2016	Conference	International	

5	Ira Nath	A New Secure Fuzzy Logic based Black Hole Attack Prevention System in MANET	International Journal of Computer Applications 144(11):1-4, June 2016. DOI: 10.5120/ijca2016910237	Journal	International	ISBN: 973-93-80893-57-3
6	Ira Nath, Avik Ghosh and Jaydeep Mazumdar	A COMPARATIVE STUDY BETWEEN DEDICATED AND SHARED PATH PROTECTION SCHEMES IN WDM OPTICAL NETWORKS	International Conference on Industry Interactive Innovation in Science, Engineering & Technology (I3SET 2016). The Proceedings of the Conference is to be published in Springer – Lecture Notes in Networks and System (LNNS).	Conference	International	
7	Ira Nath, Prosenjit Chakraborty	Review of Various Attacks and a New Secure Data Transmission Mechanism for MANET	International Journal of Computer Applications, Foundation of Computer Science (FCS), NY,USA, Volume-150,Number-1, Date of Publication-16/09/2016, DOI:10.5120/ijca2016911437,	Journal	International	ISBN : 973-93-80894-37-5
8	Debasree Mitra, Kumar Gaurav Verma	"Information Processing using Multilevel Masking to Image Segmentation"	IJCA	Journal	International	ISSN 0975-8887
9	Dharmpal Singh, Sudipta Sahana, SK Saddam Ahmed	A Comparative Study to Assess the Crohn's Disease type using Statistical and Fuzzy Logic Methodology	International Journal of Computer Sciences and Engineering, Page No (41-46)	Journal	International	
10	Dharmpal Singh, J. P. Choudhury and M. De	A Comparative study of meta heuristic model to assess the breast cancer	IETE Journal of Research (accepted)	Journal	International	SCI

		disease type under the domain of data mining				
11	Dharmpal Singh	An Extraction of Knowledge using meta heuristic models	International Journal of Knowledge-Based Development (IJKBD)	Journal	International	Inderscience
12	Dharmpal Singh , A. Banerjee, G. Purkait	Assessment of Heart Disease Types Using Clustering Techniques	International Journal of Artificial intelligence and knowledge discovery (IJAIKD)	Journal	International	Google
13.	Soumya Kanta dey, Soupayan Datta, Siddhartha Roy, Surupa Mazumder, Sudipta Sahana	"A Web Cloud Architecture Implying State Cryptographic Algorithm for Data-theft Prevention"	IEEE Transactions on Cloud Computing ISSN: 2168-7161 (Communicated)	Journal	International	
14	R. Bose, S. Sahana,D. Sarddar	An Adaptive Cloud Communication Network Using VSAT with Enhanced Security Implementation	International Conference on Intelligent Computing and Communication 2016 (ICIC2 2016) on 18th & 19th February 2016(Springer).	Conference	International	
15	S. Sahana, R. Bose, D Sarddar	Harnessing RAID mechanism for enhancement of Data Storage and Security on Cloud	Brazilian Journal of Science and Technology (2016) 3:12 DOI 10.1186/s40552-016-0024-5 published on 22nd March 2016. (Springer).	Journal	International	
16	Sudipta Sahana and Juhi Gangopadhyay	"ADAPTIVE ON DEMAND SIZE BASED IMGAGE STEGANOGRAPHY WITH	Global Journal of Engineering Science and Research Management	Journal	International	ISSN 2349-4506

		CIPHER TECHNOLOGY "	Volume 3 Issue 4 ,2016 Impact Factor: 2.265			
17	Soupayan Datta, Soumya Kanta Dey and Sudipta Sahana	Implementation of Location Encryption Algorithm for Data Flow in Database Systems Ensuring Enhanced Security Management	International Journal of Innovations in Engineering and Technology Volume 6 issue 4 , 2016	Journal	International	ISSN: 2319 – 1058
18.	Sainik Kumar Mahata, Monalisa Dey and Subhranil Som	“Encryption using Double Triangulation and Two Point Crossover”	International Journal of Advanced Research in Computer Science and Technology	Journal	International	ISSN : 2347 – 8446 (Online) ISSN : 2347 - 9817 (Print) – (Cosmos indexed)
19.	Ranajay Kumar Senapati, Sainik Kumar Mahata, Monalisa Dey	“Implementation of Cryptographic Protocol applying Genetic Algorithm on Staircase Substitution Technique and Randomness Testing”	International Research Journal of Computer Science, Issue 7, Volume 2	Journal	International	ISSN: 2393-9842 ,2016, (Google Scholar and Citeseer indexed)
20.	Sainik Kumar Mahata and Monalisa Dey	"A Novel Approach for Cryptography using Modified Substitution Cipher and Triangulation "	International Research Journal of Computer Science (IRJCS) Issue 04, Volume 3 (April 2016)	Journal	International	ISSN: 2393-9842, pp.26-32, (Google Scholar and Citeseer indexed)
21.	Sainik Kumar Mahata and Monalisa Dey	“A Novel Agreement Protocol with Dual Failure Problem”	International Journal of Advanced Research in Computer Science and Software Engineering , 2016, (Google Scholar and Citeseer indexed).	Journal	International	
22.	Monalisa Dey, Anupam Mondal, Dipankar Das	“NTCIR-12 Mobileclick 2: Sense Based Ranking and Summarization	NTCIR-12, National Institute of Technology, Tokyo, Japan. Accepted, June 4-7, 2016.	Journal	International	

		of English Queries”				
23.	Sumanta Chatterjee, Apurba Paul, Ritaban Paul, Souvik Banerjee	“Cognitive Mechatronic Fire Extinguishing Vehicle with Obstacle Detection and Bypass”	Applied Electronics (CAE) – ISSN : 2394-4714 Foundation of Computer Science FCS, New York, USA Volume 4 – No.8, April 2016	Journal	International	
24.	Madhuchhanda Dasgupta, J.K.Mandal	" Bit-plane Oriented Image Encryption through Prime-Nonprime based Positional Substitution (BPIEPNPS)"	International Journal of Computer Sciences and Engineering, Page No. (65-70). National Conference on Computing, Electronics & Electrical Engineering, on 24th & 25th June 2016; Published in IJCSE, vol.-4, spl. Issue - 6, Aug 2016	Journal	International	E-ISSN: 2347-2693
25	Sumanta Chatterjee, Krishnayan Gupta	A Comparative Study of Security in E-commerce: Review	International Journal of Computer Sciences and Engineering ; Volume-4, Special Issue-6, Aug 2016	Journal	International	E-ISSN: 2347-2693
26	Sumanta Chatterjee, Sneha Roychowdhury, Kavery Roy	A Conceptual Software Model of E-business to Analyze the Growth Rate of a Product	International Conference on Advanced computing and Intelligent Engineering (ICACIE 2016) Springer, CV Raman College of Engineering, Odisha. December 2016.	Conference	International	
27	Sumanta Chatterjee, Krishnayan Gupta, Kousik Goswami, Arpadip Paul	An Integrated B2C Development Model of Electronic Commerce for Digitizing	International Conference on Information, Communication and Computing Technology, Jagan Institute of	Conference	International	

		Cottage Industries	Management Studies, New Delhi,2016			
28	Sumanta Chatterjee,A purba Paul, Ritaban pal,Souvik Banerjee	Cognitive Mechatronic Fire Extinguishing Vehicle with Obstacle Detection and Bypass” Communications on Applied Electronics (CAE)	Foundation of Computer Science FCS, New York, USA Volume 4 – No.8, April 2016	Journal	International	ISSN : 2394-4714 Foundation of Computer Science FCS, New York, USA Volume 4 – No.8, April 2016
29	Sumanta Chatterjee , Krishnayan Gupta	A Comparative Study of Security in E-commerce: Review	International Journal of Computer Sciences and Engineering Open Access Review Paper 2016	Journal	International	Volume-4, Special Issue-6, Aug 2016 E-ISSN: 2347-2693, www.ijcseonline.org

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2. D. P. Singh, J. P. Choudhury and M. De, "An effort to select a preferable meta heuristic model for knowledge discovery in Data mining", International Journal of mataheuristics, Vol. 4 No. 1, pp.57-90, September, 2015. 1755-2184, ISSN print: 1755-2176 **DBLP Index**.
3. Sk. Saddam and D. P.Singh, "Genotype based classification of Crohn's disease using various BPN training algorithms", International Journal of Artificial Intelligence and Knowledge Discovery, Vol. 5 No. 2, pp.22-29, July, 2015, Print ISSN: 2231-2021 e-ISSN: 2231-0312.
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6. Siddhartha Sankar Nath, Pranati Rakshit, "A Survey of Image Processing Techniques for Emphysema Detection" International Journal of Computer Applications (0975 – 8887) Volume 114 – No. 15, March 2015.
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8. D. Sarddar, R. Bose, S. Sahana "An Enhanced Cloud Network Load Balancing Approach Using Hierarchical Search Optimization Technique" in International Journal of Hybrid Information Technology

9. S. Sahana, A. Bhattacharya, R. Mondal, R. Chattopadhyaya, T. Das “**Securing And Hiding Texts Using Archimedean Spiral Technique With Image Steganography**” in *International Journal of Computer Engineering and Applications*, Volume IX, Issue IV, April 15, pp 77-85 ISSN 2321-3469
10. S. Sahana, G. Dey, M. Ganguly, P. Paul, S. Paul “**Adaptive Steganography Based Enhanced Cipher Hiding Technique for Secure Data Transfer**” in *IOSR Journal of Computer Engineering (IOSR-JCE)* e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 17, Issue 2, Ver. V (Mar – Apr. 2015), PP 55-60 DOI: 10.9790/0661-17255560 indexed in ANED-DDL (Digital Data link) number is 11.0661/iosr-jce-H017255560, ESCI MML (Manuscript Mapping Link) number is **0661-1702-0560**
11. S. Sahana, M. Majumdar, S Bose, A, Ghoshal “**Security Enhancement Approach For Data Transfer Using Elliptic Curve Cryptography And Image Steganography**” in *International Journal of Advanced Research in Computer and Communication Engineering* ISSN (Online) 2278-1021 ISSN (Print) 2319-5940 Volume 4 Issue 4 pp 495-499. DOI 10.17148/IJARCCCE.2015.44113
12. R. Bose, S. Sahana, D. Sarddar “**An Efficient Model of Distribution and Storage of Big Data across Cloud-based Nodes using Billboard Manager**” in *International Journal of Scientific & Engineering Research* ISSN 2229-5518 Volume 6, Issue 5, May-2015 pp 1556-1565 DOI-10.14299/ijser.2015.05.006 (indexed by Thomson Reuters)
13. D. Sarddar, R. Bose, S. Sahana “**A Novel Approach on Weight Based Optimized Routing for Mobile Cloud Computing**” in *Brazilian Journal of Science and Technology* DOI:10.1186/s40552-015-0008-x published on 27 June 2015 (Springer)
14. R. Bose, S. Sahana, D. Sarddar “**An Energy Efficient Dynamic Schedule based Server Load Balancing Approach for Cloud Data Center**” in *International Journal of Future Generation Communication and Networking* ISSN: 2233-7857 Vol. 8, No. 3 (2015), pp. 123-136 <http://dx.doi.org/10.14257/ijfgcn.2015.8.3.12>

15. Dr. Kumar, A. Aziz, S. Sahana, P. Thapliyal “**Implementation of H.264/MPEG-4 AVC for Compound Image Compression Using Histogram based Block Classification Scheme**” in International Journal of Computer Science and Information Technologies, Vol. 6 (4) , 2015, 3479-3488 ISSN : 0975-9646
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17. R. Bose, S. Sahana, D. Sarddar “**An Enhanced Storage Management Scheme with Search Optimization for Cloud Data Center**” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 12 (2015) pp. 32141-32150(Scopus indexed)
18. Sainik Kumar Mahata, Monalisa Dey and Subhranil Som, “Encryption using Double Triangulation and Two Point Crossover”, in International Journal of Advanced Research in Computer Science and Technology, Vol. 3, Issue 1 (Jan. - Mar. 2015), pp. 37-40, ISSN : 2347 - 8446 (Online) ISSN : 2347 - 9817 (Print)
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23. Akash Pal, Avinandan Sau, Debolina Das, Sukanta Shrama, Madhuchhanda Dasgupta, "An approach for identification using ear and face biometrics employing wavelet based image fusion and SIFT feature detection in surveillance system", International Journal of Advanced Research in Computer and Communication Engineering, ISSN(online) 2278-1021 ISSN((print) : 2319-5940 ,Vol. 4, Issue 4, pp 74-80. DOI 10.17148/IJARCCE.2015.4417, April 2015.

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Publications list of 2014

1. Abhijit Sarkar, Apurba Paul, Anupam Mondal, Abhijit Ghosh, "A unique approach for Market Basket Analysis under the framework of Probability Based Association Rule Learning" , Special Issue of International Journal of Computer Applications in Engineering Sciences;Volume IV, page:8-14, Journal (International Journal of Computer Applications in Engineering Sciences-IJCAES), ISSN-2231-4946, Journal Impact factor/SCI Index No. 0.395. Year of publication 2014.
2. Ira Nath, Soumitra Das, "Mobility Based Clustering Algorithm for Ad Hoc Network: MBCA", International Journal of Advanced Research in Computer Science and Software Engineering, Volume: 4, Issue: 12, Pages 597-602, 2014. **ISSN: 2277 128X.**
3. Ira Nath, Trisha Gorai, "A Modified Version of DMAC Clustering Algorithm in MANET", Volume: 3, Issue: 6, Pages: 133-143, Publisher: IJCSMC, 2014. **ISSN 2320-088X.**
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6. Sudarshan Nandy, ParthaPratim Sarkar, Achintya Das;"Automatic Detection of Hard Exudates based on the BAT Algorithm Optimize Segmentation Technique.," In the Book of "Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes.", IGI Global Publishing House.
7. P Samaddar, S Nandi, S Nandy, DC Sarkar, PP Sarkar, "Prediction of resonant frequency of a circular patch frequency selective structure using

- artificial neural network", International Journal of Physics, Springer India, pp.1-7, 2014.
8. Sudarshan Nandy, Partha Pratim Sarkar, Achintya Das, Xin-she Yang, "Color image segmentation by Cuckoo search"; 2014, AUTOSOFT journal.
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 11. D. P. Singh, J. P. Choudhury, M. De , A comparative study on principal component analysis and factor analysis for the formation of association rule in data mining domain , 2nd International Conference on Mathematical, Computational and Statistical Sciences (MCSS '14) Gdansk, Poland May 15-17, 2014 , ISBN: 978-960-474-380-3 , Indexed :ISI (Thomson Reuters)
 12. Debasree Mitra, Sanjoy Roy, Sonali Bhattacharyya, "Cumulative Measurement of Image Entropy on Different Mathematical Morphological Operation", ACEEE-CPS, International Conference on Computing, Communication & Manufacturing, ISBN: 978-0-9940194-0-0, Pages 35-39
 13. S. Sahana, A. Kundu "**Diagonal Block Steganography Based Enhanced Auxiliary Key Crypting for Secure Data Transfer**" in International Journal of Advanced Research in Computer Engineering & Technology, volume 3, issue 10, October 2014, (ISSN: 2278 – 1323)pp 3429-3432
 14. A. Kundu, S. Sahana "**Dynamic Size Based Cipher Aided Image Steganography Technique for Network Security Enhancement**" in International Journal of Advanced Research in Computer Science and Software Engineering volume 4, issue 10, October 2014, (ISSN: 2277 – 128X)pp 555-560
 15. S. Sahana, A. Kundu "**A Novel Approach on Adaptive Block Steganography Based Crypting Technique for Secure Message**

Passing” in International Journal of Computer Science and Engineering volume 2 issue 12, December 2014, (ISSN:2347-2693) pp 42-46.

16. Monalisa Dey, Nilanjan Dey, Sainik Kumar Mahata, Achintya Das, Sheli Sinha Chaudhuri, “Electrocardiogram Feature based Inter-human Biometric Authentication System”, International Conference on Electronic Systems, Signal Processing and Computing Technologies, Nagpur, Maharashtra, January, 2014, ISBN: 978-1-4799-2102-7, Proceedings available at IEEE XPLORE, Digital Library.
17. Suvojit Acharjee, Nilanjan Dey, Sainik Kumar Mahata, Monalisa Dey, Sheli Sinha Chaudhuri, “Optimized Motion Vector Estimation using Cuckoo Search”, communicated at CIEC14, Calcutta University, IEEE Sponsored Conference.
18. Anupam Mondal, Sainik kumar Mahata, Pinaki Majumdar, “A Pictorial Block Steganography based Secure Algorithm for Data Transfer”, national conference, ISBN No/ISSN No. 973-93-80873-34-0.
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1. Prerna Badoni, PSJ Kumar, “Study of power Converter Topology used for renewable energy resources using wind”, *International Journal of Emerging Research in Management and Technology*, Vol.2, Issue 12, pp: 26-33, Dec’2013.
2. PSJ Kumar, Dr. Gagan Singh, “Performance evaluation of H.264 AVC using CABAC Entropy coding for Image Compression”, *ICACCS, Atlantis Press*, pp: 320-326, January’2013, Dubai.
3. PSJ Kumar, Dr. Venkateswaran, “Neural network based block classification of compound images”, *Journal of International academic research for multidisciplinary*, Vol.1. No.1, pp: 43-51, January’2013.
4. Pranati Rakshit ,”Detection of presence of parasites in human RBC in case of diagnosing malaria using image processing”, *IEEE 2013 second International conference on Image Information Processing(ICIIP)*.
5. Pranati Rakshit and Kriti Bhowmik,“Detection of Abnormal Findings in Human RBC in Diagnosing Sickle Cell Anaemia Using Image Processing, *International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA- 2013)*, Elsevier Procedia Technology 10 (2013) 28 – 36.
6. Pranati Rakshit, Kriti Bhowmik,“ Detection of Abnormal Findings in Human RBC in Diagnosing G-6-P-D Deficiency Haemolytic Anaemia Using Image Processing” *1st International Conference on Condition Assessment Techniques in Electrical Systems*, 2013.
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10. I. Nath, R. Chaki, “RFBH: A New Reliable Fuzzy Logic Based Black Hole Attack Prevention System in MANET”, Published in National Conference on Signal Processing, Instrumentation and Communication, IEEE Malabar Subsection, 29th & 30th NOVEMBER 2013.
11. Abhijit Sarkar, Apurba Paul, Sainik Kumar Mahata and Deepak Kumar, “Modified Apriori Algorithm to find out Association Rules using Tree based Approach”, Special Issue on International Conference on CCSN Proceeding, ISBN-(0975–8887), Journal Impact factor/SCI Index No. 0.835, 2012.
12. Abhijit Sarkar, Apurba Paul, Anupam Mondal, Abhijit Ghosh , “ A unique approach for Market Basket Analysis under the framework of Probability Based Association Rule Learning”, International conference on CCSN proceedings, Page No.98-101, ISBN: 81-85824-46-0, 2013.
13. Abhijit Sarkar, Apurba Paul, Anupam Mondal, Subhadip Nandi, “A Radical approach for Market Basket Analysis under the framework of Binary Transaction based improved Apriori Algorithm” International conference on CCSN ISBN:81-85824-46-0, Page No.164-167, 2013.
14. Anupam Mondal, Sainik kumar Mahata, Pinaki Majumdar, “A Pictorial Block Steganography based Secure Algorithm for Data Transfer”, national conference ISBN No/ISSN No. 973-93-80873-34-0 .
15. Anupam Mondal, Joy Samadder, Ivy Mondal, “A Novel Approach for Secure Data Transfer Based on Steganography using Block Encryption “,*International Journal of Computer Applications (IJCA)*, ISBN No/ISSN No. 973-93-80873-34-0 , Peer Reviewed, Impact Factor: 0.814.
16. Sainik Kumar Mahata, Sikha Nogaja, Smita Srivastava, Monalisa Dey, Subhranil Som ,“A Novel Approach to Cryptography using Modified Substitution Cipher and Hybrid Crossover Technique” ,*International Journal of Computer Applications*, Special issue on CCSN 2013, ISSN: 0975-8887, December 2013, organized by Purushottam Institute of Technology, Rorkella, Odhisha. India,
17. Sumanta Chatterjee, “New diametrical approach in Mesh of Tree Network On Chip (NOC) “,International conference on Computation and Communication Advancement-2013 IC3A-2013, ISBN-13:978-1-25-906393-3.
18. Sumanta chatterjee ,“Developing Model of E- Marketing Plan By Demand Analysis”, International conference on challenges and opportunities in Asian Economics, Feb-2013, Poornima Institute of Technology, Poornima University, Jaipur.

19. Sumanta chatterjee, “ Delay analysis and implementation of new delay models in VHDL ”, National conference on Control communication & Device Electronics, N3CD-2013, JISCE.
20. Sumanta chatterjee, “Diagnosis and Troubleshooting of computer faults based on expert system and artificial Intelligence”, International Journal of Pure and Applied Mathematics, ISSN: 1311-800 (Printed Version) ISSN:1314-3395 (Online Version). [url:http://www.ijpam.eu](http://www.ijpam.eu) , Volume 83 issue no:5 page no. 717-729, 2013.
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