

## **Publications**

### **Journal Papers (Indexed in SCI/SCIE/ESCI)**

1. Rohit Kumar Sachan, Tarun Kumar and Dharmender Singh Kushwaha, “Solving the E-Commerce Logistic Problem using Anti-Predatory NIA”, International Journal of Intelligent Engineering Informatics (IJIEI), ISSN No. 1758-8723, Inderscience 2020.
2. Rohit Kumar Sachan and Dharmender Singh Kushwaha, “Anti-Predatory NIA for Unconstrained Mathematical Optimization Problems” , International Journal of Swarm Intelligence Research (IJSIR),ISSN No. 1947-9271 , IGI Global 2020.
3. Tarun Kumar and Dharmender Singh Kushwaha, “An Intelligent Reconnaissance Framework for Homeland Security”, Defence Science Journal, ISSN No. 0976-464X , Defence Scientific Information and Documentation Centre 2019.
4. Tarun Kumar and Dharmender Singh Kushwaha, “An Intelligent Surveillance System based on IoT for Internal Security of a Nation” , International Journal of Information Security and Privacy (IJISP), ISSN No. 1930-1650 IGI Global 2019.
5. Rohit Kumar Sachan and Dharmender Singh Kushwaha“ , A Generalized and Robust Anti-Predatory Nature-Inspired Algorithms for Complex Problems” ,International Journal of Applied Metaheuristic Computing, ISSN No. 1947-8283, IGI Global 2019.
6. Tarun Kumar and Dharmender Singh Kushwaha, “Traffic Surveillance & Speed Limit Violation Detection System, pp 3761-3773” , Journal of Intelligent & Fuzzy Systems, ISSN No. 1875-8967, IOS Press 2017.
7. Manu Vardhan and Dharmender Singh Kushwaha, “A Dynamic File Replication Based On CPU Load And Consistency Mechanism In A Trusted Distributed Environment, pp 147-160” , Tehnickivjesnik/Technical Gazette, ISSN No. 1848-6339, Technical Faculties of UNIOS 2017.
8. Dushant Kumar Singh and Dharmender Singh Kushwaha, “Automatic Intruder Combat System: A way to Smart Surveillance, pp 50-58”, Defense Science Journal, ISSN No. 0976-464X, Defence Scientific Information and Documentation Centre 2017.
9. Manu Vardhan and Dharmender Singh Kushwaha , “A dynamic file replication and consistency mechanism for efficient data center operation and its formal verification, pp 65-85”, Acta Polytechnica Hungarica, ISSN No. 1785-8860, Budapest : Óbuda University 2014.
10. Ashish Sharma Manu Vardhan and Dharmender Singh Kushwaha “A Versatile Approach for the Estimation of Software Development Effort Based on SRS Document , pp 1-42”, International Journal of Software Engineering and Knowledge Engineering (IJSEKE), ISSN No. 1793-6403, World Scientific 2014.

11. Manu Vardhan and Dharmender Singh Kushwaha , “A Dynamic Consistency Aware File Replication Mechanism & its Application in Data Centre”, International Arab Journal of Information Technology (IAJIT), Accepted in Press 2014.
  12. Sanjeev Pippal and Dharmender Singh Kushwaha , “A Simple, Adaptable and Efficient Heterogeneous Multi-Tenant Database Architecture for Ad hoc Cloud” , Journal of Cloud Computing, ISSN No. 2192-113X, Springer 2013.
  13. Shakti Mishra, A.K. Misra and Dharmender Singh Kushwaha “Hybrid reliable load balancing with MOSIX as middleware and its formal verification using process algebra, pp 506-526”, Future Generation Computer Systems, ISSN No. 0167-739X, Elsevier 2011.
- 

### Conference Papers

1. Amritesh Kumar, Amrendra Singh Yadav and **Dharmender Singh Kushwaha**, “VChain: Efficient Blockchain based Vehicular Communication Protocol” , 10th International Conference on the Cloud Computing, Data Science & Engineering, Amity University, Noida. (Jan 29 - 31, 2020) , IEEE 2020(In Press).
2. Rohit Kumar Sachan and **Dharmender Singh Kushwaha**, “Anti-Predatory NIA based Approach for Optimizing Basic COCOMO Model” , “10th International Conference on the Cloud Computing, Data Science & Engineering, Amity University, Noida. (Jan 29 - 31, 2020) ”, 10th International Conference on Cloud Computing, Data Science & Engineering, Amity University, Noida, (Jan 29 - 31, 2020) , IEEE 2020 (In Press).
3. Amrendra Singh Yadav, Kumari Khushboo, Vikalp Kumar Singh and **Dharmender Singh Kushwaha**, “Increasing Efficiency of Sensor Nodes by Clustering in Section Based Hybrid Routing Protocol with Artificial Bee Colony”, 3rd International Conference on Computing & Network Communications (CoCoNet'2019) , 3rd International Conference on Computing & Network Communications (CoCoNet'2019) , Elsevier 2019 (In Press).
4. Biru Rajak, Sharbani Mallick and **Dharmender Singh Kushwaha**, “Creating a Dynamic Real Time Green Corridor and Assessing its Impact on Normal Traffic Flow” , 3rd International Conference on Computing & Network Communications (CoCoNet'2019) , Elsevier 2019 (In Press).
5. Eva Patel and **Dharmender Singh Kushwaha**, “Clustering Cloud Workloads: K-Means vs Gaussian Mixture Model” , 3rd International Conference on Computing & Network Communications (CoCoNet'2019) , Elsevier 2019(In press).
6. Neelam Dwivedi, Dushyant Kumar Singh and **Dharmender Singh Kushwaha**, “An Approach for Unattended Object Detection through Contour Formation using Background Subtraction” , 3rd International Conference on Computing & Network , Elsevier 2019.

7. Neelam Dwivedi, Dushyant Kumar Singh and **Dharmender Singh Kushwaha**, “Weapon Classification using Deep Convolutional” , 3rd IEEE Conference on Information , IEEE 2019 (In Press).
8. Biru Rajak, Aparna Tripathi and **Dharmender Singh Kushwaha**, “A Real Time Road Congestion based Hybrid Approach for finding the Optimized Route”, 4th International Conference on Microelectronics, Computing & Communication Systems, MCCS 2019 (In press).
9. Tanmay Jain, Sharbani Mallick and **Dharmender Singh Kushwaha**, “Congestion control in software defined network”, 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018) , ISSN No. 978-1-5386-5002-8, IEEE 2018.
10. Eva Patel, Aalekh Mohan and **Dharmender Singh Kushwaha**, “Neural Network Based Classification of Virtual Machines in IaaS”, 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018), ISSN No. 978-1-5386-5002-8, IEEE 2018.
11. Rohit Kuamr Sachan, Suraj Gupta and **Dharmender Singh Kushwaha**, “Evaluation and Research Directions in Nature-Inspired Algorithms”, 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018), ISSN No. 978-1-5386-5002-8. IEEE 2018.
12. Tarun Kumar, Suraj Gupta and **Dharmender Singh Kushwaha**, “A Smart Cost Effective Public Transportation System: An Ingenious Location Tracking of Public Transit Vehicles, pp. 134-138” , 5th International Symposium on Computational and Business Intelligence (ISCBI 2017) , IEEE 2017.
13. Tarun Kumar, Suraj Gupta and **Dharmender Singh Kushwaha**, “An Efficient Approach for Automatic Number Plate Recognition for Low Resolution Images, , pp.53-57” , International Conference on Network, Communication and Computing (ICNCC 2016) , ISSN No. 978-1-4503-4793-8, ACM 2016.
14. R.K. Sachan, A. Nigam, A. Singh, S. Singh, M. Choudary, A. Tiwari and **Dharmender Singh Kushwaha**, “Optimizing Basic COCOMO Model using Simplified Genetic Algorithm , pp. 492-498”, Twelfth International Multi-Conference on Information Processing (IMCIP-2016) , ISSN No. 1877-0509, Elsevier 2016.
15. Tarun Kumar and **Dharmender Singh Kushwaha**, “An Efficient Approach for Detection and Speed Estimation of Moving Vehicles , pp. 726-731” , Twelfth International Multi-Conference on Information Processing (IMCIP-2016), Elsevier 2016.
16. Sanjeev Pippal, Sunny Singh, Rohit Kumar Sachan and **Dharmender Singh Kushwaha**, “**High Availability of Databases for Cloud , pp. 1716-1722**”, 2nd International Conference on Computing for Sustainable Global Development, INDIACom-2015 - IEEE, ISSN No. 978-9-3805-4416-8, IEEE 2015.
17. Anshu Maheshwari, Aprna Tripathi and **Dharmender Singh Kushwaha**, “A New Design

Based Software Coupling Metric , pp. 351-355” , 13th IEEE International Conference on Information Technology, ICIT 2014, ISSN No. 978-1-4799-8084-0, IEEE 2014.

18. Sanjeev Pippal, Shiv Pratap Singh and **Dharmender Singh Kushwaha** , “Data Transfer From MySQL To Hadoop: Implementers’ Perspective”, International Conference on Information and Communication Technology for Competitive Strategies- ACM , ISSN No. 978-1-4503-3216-3, ACM 2014.
19. Sanjeev Pippal, Ankur Shukla and **Dharmender Singh Kushwaha** , “Implementation of Distributed Searching and Sorting using Hadoop MapReduce”, International Conference on Information and Communication Technology for Competitive Strategies- ACM, ISSN No. ACM 2014.
20. Avinash Gupta, Nayaneesh Mishra, Dushyant Kumar Singh and **Dharmender Singh Kushwaha**, “Test Cases Reduction through Prioritization Technique , pp. 104-108” , International conference on Advance in Computing, Communication and Information Technology, (CCIT-14), ISSN No. 978-1-63248-010-1, SEEK Digital Library 2014.
21. Avinash Gupta, Nayaneesh Mishra, Aprna Tripathi, Manu Vardhan and **Dharmender Singh Kushwaha**, “An Improved History-Based Test Prioritization Technique Using Code Coverage Regression Test Effort Estimation”, 1<sup>st</sup> International Conference on Communication and Computer Engineering (ICOCOE 2014), ISSN No. 978-3-319-07674-4, Springer 2014.
22. Aprna Tripathi and **Dharmender Singh Kushwaha**, “A New Metrics to Measure Maintainability and Understandability of Object-Oriented Software”, International Conference on Advances in Computing and Communication Engineering (ICACCE14), 2014.
23. Aprna Tripathi, Manu Vardhan and **Dharmender Singh Kushwaha**, “Package Level Cohesion and its Application , pp. 437-446” , Fifth International Conference on Advances in Communication, Network, and Computing – CNC 2014, ISSN No. 978-1-5108-1004-4, Elsevier 2014.
24. Sanjeev Kumar Pippal, Rahul Kumar Dubey, Arjun Malik, Nishant Singh, Prateek Jain, Ranjan Kumar Bharti and **Dharmender Singh Kushwaha**, “Performance Analysis Of Resource Provisioning For Cloud Computing Frameworks , pp. 709-715”, Fifth International Conference on Advances in Communication, Network, and Computing – CNC 2014, ISSN No. 978-1-5108-1004-4, Elsevier 2014.
25. Avinash Gupta, Namita Mishra and **Dharmender Singh Kushwaha**, “Rule Based Test Case Reduction Technique using Decision Table , pp. 1398-1405”, 4th IEEE International Advanced Computing , ISSN No. 978-1-4799-2572-8, IEEE 2014.
26. Aprna Tripathi and **Dharmender Singh Kushwaha**, “Package Level Coupling: A New Metric for Object-Oriented Software”, 1st IEEE International Conference on Recent Trends in Computer Science and Engineering 2014.
27. Prateek Khurana, Aprna Tripathi and **Dharmender Singh Kushwaha**, “Change Impact Analysis and its Regression Test Effort Estimation , pp. 1420-1424” ,3rd IEEE

- International Advance Computing Conference (IACC-2013), ISSN No. 978-1-4673-4529-3, IEEE 2013.
28. Rajat Swapnil, Aprna Tripathi and **Dharmender Singh Kushwaha**, “Software Change Validation Using Class Diagram and SRS , pp. 1620-1624” ,3rd IEEE International Advance Computing Conference (IACC-2013), ISSN No. 978-1-4673-4529-3, IEEE 2013.
  29. Aprna Tripathi, Arun Kumar Misra and **Dharmender Singh Kushwaha**, “Software Change Validation Before Change Implementation , pp. 286-292” , 2nd International Conference on Advance Computing and Creating Entrepreneurs (ACCE 2013), ISSN No. 0976-5697, 2013.
  30. Aprna Tripathi, Arun Kumar Misra and **Dharmender Singh Kushwaha**, “Analysis of Impacted Classes and Regression Test Suite Generation , pp. 47-52”, 2nd International Conference on Advance Computing and Creating Entrepreneurs (ACCE 2013), ISSN No.0976-5697 2013.
  31. Aprna Tripathi, Arun Kumar Misra and **Dharmender Singh Kushwaha**, “Software Change Complexity: A New Dimension for Analyzing Requested Change , pp. 5-10” ,International Conference on Recent Trends in Information Technology and Computer Science 2012 ICRTITCS, ISSN No. 0975-8887 , IJCA 2013.
  32. Manu Vardhan, Shrabani Mallick, Shakti Mishra and **Dharmender Singh Kushwaha**, “A Demand Based Load Balanced Service Replication Model , pp. 5-10” , 3<sup>rd</sup> Annual International Conference on Advances in Distributed and Parallel Computing (ADPC 2012), ISSN No. 2251-3043, GSTF 2013.
  33. Shrabani Mallick and **Dharmender Singh Kushwaha**, “An Efficient Publish-Subscribe Protocol for Collaborative Content Delivery – Ex-PUSH , pp. 152-156”, International Symposium and Workshop on Cloud and Services Computing ISCOS 2012 , ISSN No. 978-1-4673-4856-0, IEEE 2012.
  34. Manu Vardhan, Shailendra Verma, Priyanka Bhatnagar and **Dharmender Singh Kushwaha**, “Eager Computation and Lazy Propagation of Modifications for Reducing Synchronization Overhead in File Replication System , pp. 331-334”, 3rd IEEE Conference on Computer and Communication Technology (ICCCT-2012), ISSN No. 978-0-7695-4872-2, IEEE 2012.
  35. Manu Vardhan, Akhil Goel, Abhinav Verma and **Dharmender Singh Kushwaha**, “Demand Based File Replication and Consistency Mechanism , pp. 335-339” , 3rd IEEE Conference on Computer and Communication Technology (ICCCT-2012) , ISSN No. 978-0-7695-4872-2, IEEE 2012.
  36. Durgesh Bajpai, Manu Vardhan and **Dharmender Singh Kushwaha**, “Ensuring Security in On-demand File Replication System , pp. 315-320”, 3rd IEEE Conference on Computer and Communication Technology (ICCCT-2012) , ISSN No. 978-0-7695-4872-2, IEEE 2012.
  37. Aprna Tripathi, Bhuvnesh Kumar, Ashish Sharma and **Dharmender Singh Kushwaha**,

- “SRS based Estimation of software maintenance effort , pp. 154-155”, 3rd IEEE Conference on Computer and Communication Technology (ICCCCT-2012), ISSN No. 978-0-7695-4872-2, IEEE 2012.
38. Shrabani Mallick and **Dharmender Singh Kushwaha**, “Service Oriented Architecture and Modeling (SOAM)– A Formal Approach” , 3rd Annual International Conference on Software Engineering & Application, SEA 2012, ISSN No. 2251-2217, GSTF 2012.
  39. Manu Vardhan, Shrabani Mallick, Shakti Mishra and **Dharmender Singh Kushwaha**, “A Demand Based Service Replication Model”, 3rd Annual International Conference on Advances in Distributed and Parallel Computing (ADPC 2012) , ISSN No. 2251-1652, GSTF 2012.
  40. Manu Vardhan, Nidhi Jain, Shakti Mishra and **Dharmender Singh Kushwaha**, “A Demand Based Fault Tolerant File Replication Model for Clouds , pp. 561-566”, CUBE: International Information Technology Conference & Exhibition , ISSN No. 978-1-4503-1185-4, ACM 2012.
  41. Manu Vardhan, Paras Gupta, Manoj Wariya and **Dharmender Singh Kushwaha**, “Dereplication: A Dynamic Memory Aware Mechanism , pp. 124-129”, Third International Conference on Cloud Computing, GRIDs, and Virtualization (Cloud Computing 2012), ISSN No. 978-1-6227-6197-5, International Academy, Research, and Industry Association (IARIA) 2012.
  42. Manu Vardhan, D.K. Yadav and **Dharmender Singh Kushwaha**, “A Transparent Service Replication Mechanism for Clouds , pp. 389-394”, Sixth International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS-2012), ISSN No. 978-0-7695-4687-2, IEEE 2012.
  43. Sanjeev Pippal and **Dharmender Singh Kushwaha**, “Architectural Design of Education Cloud Framework Extendible to Ad hoc Clouds”, 1ST IEEE International Conference on Recent Advances in Information Technology (RAIT), ISSN No. 978-1-4577-0697-4, IEEE 2012.
  44. Ashish Sharma and **Dharmender Singh Kushwaha**, “Applying Requirement based complexity for the estimation of Software Development and Testing Effort , pp. 1-11”, ACM SIGSOFT Software Engineering Notes, ISSN No. 0163-5948, ACM 2012.
  45. Sanjeev Pippal, Vishu Sharma, Shakti Mishra and **Dharmender Singh Kushwaha**, “An Efficient Schema Shared Approach for Multitenant Database with Authentication & Authorization Framework , pp. 213-218”, 6th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, ISSN No. 978-1-4244-9640-2, IEEE 2011.
  46. Vishu Sharma, Manu Vardhan, Shakti Mishra and **Dharmender Singh Kushwaha**, “A Generalized Approach for Fault Tolerance and Load Based Scheduling of Threads in Alchemi .Net , pp. 211-216”, 2nd International Conference on Cloud Computing, GRIDs, and Virtualization CLOUD COMPUTING 2011, ISSN No. 978-1-61208-153-3, International Academy, Research, and Industry Association (IARIA) 2011.
  47. Sanjeev Pippal, Vishu Sharma, Aruna Kumari and **Dharmender Singh Kushwaha**,

- “CTES Based Secure Approach for Authentication and Authorization of Resource and Service in Clouds , pp. 444-449”,2nd IEEE International Conference Computer and Communication Technology, ICCCT 2011,ISSN No. 978-1-4577-1386-6, IEEE 2011.
48. Ashish Sharma and **Dharmender Singh Kushwaha**, “A Metric Suite for Early Estimation of Software Testing Effort using Requirement Engineering Document and its validation , pp. 373-378”, 2nd IEEE International Conference Computer and Communication Technology ICCCT 2011, ISSN No. 978-1-4577-1386-6, IEEE 2011.
49. Sanjeev Pippal, Vishu Sharma, Shakti Mishra and **Dharmender Singh Kushwaha**, 1st International Workshop on Securing Services on the Cloud (IWSSC) , ISSN NO. 978-1-4577-1186-2, IEEE 2011.
50. Shrabani Mallick, Rajender Pandey, Sajeew Neupane, Shakti Mishra and **Dharmender Singh Kushwaha**, “Simplifying Web Service Discovery & Validating Service Composition , pp. 288-294”, 7th IEEE World Congress on services , Services 2011, ISSN No. 978-0-7695-4461-8 ,IEEE 2011.
51. Shrabani Mallick, Namoo Narayan Meena, D. K. Yadav and **Dharmender Singh Kushwaha**, “Composition of Heterogeneous Web Services for Converting Legacy Codes to SOA based Applications 54-59”, 20th International Conference on Software Engineering and Data Engineering, SEDE , ISSN No. 978-1-880843-82-6, International Society for Computers and their Applications ( ISCA ) 2011.
52. Shrabani Mallick, Sanjeev Neupane, Shakti Mishra and **Dharmender Singh Kushwaha**, “Creating applications Using Heterogeneous Web Services”, 4<sup>th</sup> IEEE International Conference on Computer Science and Information Technology, ISSN No. 978-1-61284-836-5, , IEEE 2011.
53. Ashish Sharma and **Dharmender Singh Kushwaha**, “Natural Language based Component Extraction from Requirement Engineering Document and its Complexity Analysis , pp. 1-14”, ACM SIGSOFT Software Engineering Notes, ISSN No. 0163-5948, ACM 2011.
54. Shakti Mishra, A.K. Mishra and **Dharmender Singh Kushwaha**, “An Efficient Job Scheduling Technique in Trusted Clusters for Load Balancing”, 1st International Conference on Cloud Computing, GRIDs & Virtualization, Cloud Computing 2010, ISSN No. 978-1-61208-106-9, International Academy, Research, and Industry Association (IARIA) 2010.
55. Shakti Mishra, D.K. Yadav. A.K. Mishra and **Dharmender Singh Kushwaha**, “Self-Organizing Clusters for Load Balancing: A B+-Tree Based Approach”, 1st International Conference on Advances in Distributed & Parallel Computing, ADPC 2010, ISSN No. 978-981-08-7656-2, GSTF 2010.
56. Gaurav Tiwari, Rahul Agarwal, Shakti Mishra and **Dharmender Singh Kushwaha**, “A Dynamic Web Service Discovery using Mobile Agents , pp. 497-500”, International Conference on Knowledge Engineering & Ontology Development, KEOD 2010, ISSN No. 978-989-8425-29-4, ScitePress 2010.

57. Aruna Kumari, Shakti Mishra and **Dharmender Singh Kushwaha**, “A Collaborative Trust Enhanced Security Model for Distributed System Services , pp. 10-14”, 1st IEEE International Conference on Advances in Communication, Network and Computing (CNC 2010), ISSN No. 978-1-4244-xxxx-x, IEEE 2009.
58. Shakti Mishra, A.K. Mishra and **Dharmender Singh Kushwaha**, “An Optimized Scheduling Algorithm for Migrated Jobs in Trusted Distributed Systems , pp. 503-509”, 1st IEEE International Conference on Computer & Communication Technology, ICCCT-2010 , ISSN No. 978-1-4244-9034-9, IEEE 2010.
59. Ashish Sharma and **Dharmender Singh Kushwaha**, “Complexity measure based on Requirement Engineering Document: A Comprehensive Approach , pp. 608-615”, 1st IEEE proceedings of International Conference on Computer & Communication Technology, ICCCT-2010, ISSN No. 978-1-4244-9034-9, IEEE 2010.
60. Ashish Sharma and **Dharmender Singh Kushwaha**, “Early Estimation of Software Complexity using Requirement Engineering Document , pp. 1-7”, ACM SIGSOFT Software Engineering Notes, ISSN No. 0163-5948, ACM 2010.
61. H. Umesh, Mohit Agarwal, Parkhi Rastogi, Sneha Agarwal, Somya Mittal, Sourabh Jain, V.L.R Madhurima and **Dharmender Singh Kushwaha**, “A New Novel Indexing Technique using a Bit-Tuple Tree , pp. 224-226”, IEEE International Conference on Information Telecommunication and Computing, ITC 2010 , ISSN No. 978-1-4244-5957-5, IEEE 2010.
62. Shakti Mishra, A.K. Mishra and **Dharmender Singh Kushwaha**, “A Cooperative Trust Management Framework for Load Balancing in Cluster Based Distributed System , pp. 121-125”, 10 Proceedings of the 2010 International Conference on Recent Trends in Information, Telecommunication and Computing, ISSN No. 978-0-7695-3975-1, ACM 2010.
63. Chunky Gupta, Deepak Pandey, Prashant Kumar Singh, Rahul Agarwal, Shakti Mishra and **Dharmender Singh Kushwaha**, “Network Traffic Resilient Remote Resource Management Framework , pp. 211-213”, International Conference on Advances in Computing, Control & Telecommunication Technologies, ACT 2009, ISSN No. 978-0-7695-3915-7, IEEE 2009.
64. Ankit Gupta, Rahul Agarwal, Rohit Vashishtha, Shakti Mishra **Dharmender Singh Kushwaha**, “Robustness Analysis of Efficient & Scalable Priority Based Jingle-Mingle Model Using Mosix , pp. 201-205”, International Conference on Advances in Computing, Control & Telecommunication Technologies, ACT 2009, ISSN No. 978-0-7695-3915-7 , IEEE 2009.
65. Ranjit Singh, Shakti Mishra and **Dharmender Singh Kushwaha**, “An efficient asynchronous mobile web service framework , pp. 1-7”, ACM SIGSOFT Software Engineering Notes, ISSN No. 0163-5948 , ACM 2009.
66. Shakti Mishra, A.K. Mishra and **Dharmender Singh Kushwaha**, “Jingle-Mingle: A Hybrid Reliable load Balancing Approach for Load Balancing in a Trusted Distributed

- Environment , pp. 117-122”, 5th International Joint Conference on INC, IMS & IDC, NCM 2009, Seoul, ISSN No. 978-0-7695-3769-6, IEEE 2009.
67. Tripuresh Pandey, Brijmohan Singh, A.K. Mishra and **Dharmender Singh Kushwaha**, “Authentication and Billing Framework for Service Oriented Architecture , pp. 91-95”, 4th IEEE International Conference on Systems , ISSN No. 978-0-7695-3551-7, IEEE 2009.
  68. Himanshu Gahlot, Awaghad Ashish Krishnarao and **Dharmender Singh Kushwaha**, “Shallow Parsing for Hindi - An extensive analysis of sequential learning algorithms using a large annotated corpus , pp. 1158-1163”, IEEE International Conference on Advance Computing Conference, IACC 2009, ISSN No. 978-1-4244-2928-8 ,IEEE 2009.
  69. Awaghad Ashish Krishnarao, Himanshu Gahlot, Amit Srinet and **Dharmender Singh Kushwaha**, “A Comparative Study of Named Entity Recognition for Hindi Using Sequential Learning ”, IEEE International Conference on Advance Computing Conference, ISSN No. 978-1-4244-2928-8, IEEE 2009.
  70. A.K. Mishra and **Dharmender Singh Kushwaha**, “Software Test Effort Estimation” ,ACM SIGSOFT , ISSN No. 0163-5948, ACM 2008.
  71. Tarun Kumar Jain, A.K. Mishra and **Dharmender Singh Kushwaha**, “Optimization of the Quine - McCluskey Method for the Minimization of the Boolean Expressions , pp. 165-168”, 4th IEEE International Conference on Autonomic and Autonomous Systems, ICAS, March 2008, ISSN No. 0-7695-3093-1 , IEEE 2008.
  72. R. Senthil, A.K. Mishra and **Dharmender Singh Kushwaha**, “An Improved Component Model for Component based Software Engineering”, ACM SIGSOFT Software Engineering Notes, ISSN No. 0163-5948, ACM 2007.
  73. A.K. Mishra and **Dharmender Singh Kushwaha**, “Improved Cognitive Information Complexity Measure: A Metric that Establishes Program Comprehension Effort , pp. 1-7”, ACM SIGSOFT Software Engineering Notes, ISSN No. 0163-5948, ACM 2006.
  74. A.K. Mishra and **Dharmender Singh Kushwaha**, “Cognitive Software Development Process and Associated Metrics – A Framework , pp. 255-260”, 5th IEEE International Conference on Cognitive Informatics (ICCI 2006) , ISSN No. 1-4244-0475-4, IEEE 2006.
  75. A.K. Mishra and **Dharmender Singh Kushwaha**, “Cognitive Web Based Software Development Process – “Towards a more Reliable Approach” , pp. 1-6”, ACM SIGSOFT Software Engineering Notes, ISSN No. 0163-5948, ACM 2006.
  76. A.K. Mishra and **Dharmender Singh Kushwaha**, “Cognitive Information Complexity Measure of Object-Oriented Program , pp. 174-179”, 5<sup>th</sup> WSEAS International Conference on Software Engineering, Parallel and Distributed Systems, ISSN No. 960-8457-41-6, ACM 2006.
  77. A.K. Mishra and **Dharmender Singh Kushwaha**, “Evaluating Cognitive Information Complexity Measure”, 13th Annual IEEE International Conference and Workshop on the Engineering of Computer Based Systems (ECBS), ISSN No. 0-7695-2546-6, IEEE 2006.
  78. A.K. Mishra and **Dharmender Singh Kushwaha**, “Cognitive Complexity Metrics and its Impact on Software Reliability Based on Cognitive Software Development Model , pp. 1-

- 6," **ACM SIGSOFT** Software Engineering Notes, ISSN No. 0163-5948, ACM 2006.
79. A.K. Mishra and **Dharmender Singh Kushwaha**, "Cognitive Complexity Measure of Object- Oriented Software – A Practitioners Approach , pp. 174-179", 5th WSEAS International Conference on Software Engineering, Parallel and Distributed , **ISSN No.** 1790-5109 960-8457-41-6, WSEAS 2006.
80. A.K. Mishra and **Dharmender Singh Kushwaha**, "A Complexity Measure Based on Information Contained in the Software , pp. 187-195", 5th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS 2006), ISSN No. 960-8457-41-6, WSEAS 2006.
81. A.K. Mishra and **Dharmender Singh Kushwaha**, "A Modified Cognitive Information Complexity Measure of Software , pp. 1-4" , ACM SIG SOFT . Software Engineering Notes, ISSN No. 0163-5948, ACM 2006.
82. A.K. Mishra and **Dharmender Singh Kushwaha**, "Robustness Analysis of Cognitive Information Complexity Measure using Weyuker Properties , pp. 1-6", ACM SIGSOFT Software Engineering Notes, ISSN No 0163-5948, ACM 2006.

### **Book Chapters Authored**

1. Rohit Kumar Sachan and Dharmender Singh Kushwaha, "Warehouse Setup Problem: Truck Transportation Cost Model ", Advances in Intelligent Systems and Computing, In Computing Conference 2020, London, United Kingdom (July 16-17, 2020). ISBN No. 2194-5357 , Springer 2020.
2. Eva Patel and Dharmender Singh Kushwaha, "Analysis of Workloads for Cloud Infrastructure Capacity Planning ", ISBN No. 2194-5357 , Springer 2019.
3. Tarun Kumar, Suraj Gupta, Pawan Kukreja and Dharmender Singh Kushwaha, "Securing and Managing Army Cantonment in India using Internet of Things " , Communications in Computer and Information Science (CCIS), ISBN No. 1865-0929 , Springer 2018.
4. Neelam Dwivedi, Dushyant Kumar Singh and Dharmender Singh Kushwaha, "An Approach for Unattended Object Detection through Contour Formation using Background Subtraction ", Communications in Computer and Information Science (CCIS) , ISBN No. 1865-0929, Springer 2018.
5. Biru Rajak and Dharmender Singh Kushwaha, "Traffic Control and Management over IoT for Clearance of Emergency Vehicle ", Lecture Notes in Networks and Systems (LNNS) Series . ISBN No. 2367-3370 . Springer 2018.
6. Tarun Kumar and Dharmender Singh Kushwaha, "An Approach for Traffic Congestion Detection and Control System", Lecture Notes in Networks and Systems (LNNS) Series , ISBN No. 2367-3370 , Springer Singapore 2016.
7. D.K. Singh and Dharmender Singh Kushwaha, "Tracking Movements of Humans in a Real-Time Surveillance Scenepp 491-500 ", Advances in Intelligent Systems and Computing , ISBN No. 978-981-10-0450-6, Springer,Singapore 2016.
8. Tarun Kumar, Rohit Kumar Sachan and Dharmender Singh Kushwaha, "Smart City Traffic Surveillance System for Indian Scenario" , Recent Advances in Mathematics, Statistics and Computer Science, 978-981-4696 , World Scientific 2015 .

9. Avinash Gupta, Aprna Tripathi and Dharmender Singh Kushwaha, "Use Case Based Approach to Analyze Software Change Impact and Its Regression Test Effort Estimation pp 1057-1067 ", Advanced Computer and Communication Engineering Technology , ISBN No. 978-3-319-07674-4 , Springer, Cham 2015.
10. Avinash Gupta, Nayaneesh Mishra, Aprna Tripathi, Manu Vardhan and Dharmender Singh Kushwaha, "An Improved History-Based Test Prioritization Technique Using Code Coverage pp 437-448 " , Advanced Computer and Communication Engineering Technology , ISBN No. 978-3-319-07674-4 , Springer, Cham 2014.
11. Aprna Tripathi and Dharmender Singh Kushwaha, "Quality Validation of Software. Design before Change Implementation Complexity Measurement pp 391-398 ", Advances in Intelligent , ISBN No. 978-3-319-03095-1 , Springer, Cham 2014.
12. Durgesh Bajpai, Manu Vardhan, Harsh Singhal and Dharmender Singh Kushwaha, "Authentication and Authorization Interface using Security Service Level Agreements for accessing pp 370-382", Contemporary Computing, ISBN No. 978-3-642-32129-0 , Springer, Berlin, Heidelberg 2012.
13. Manu Vardhan, Paras Gupta and Dharmender Singh Kushwaha, "File Replication and The replication of Replica's in Distributed Environmentpp 358-369 ", Contemporary Computing, ISBN 978-3-642-32129-0 ,Springer, Berlin, Heidelberg 2012.
14. Paras Gupta , Manu Vardhan and Dharmender Singh Kushwaha, "On the Fly File Dereplication Mechanism pp 709-718 ", Advances in Computing and Information Technology, ISBN No. 978-3-642-31513-8 , Springer, Berlin, Heidelberg 2012.
15. Durgesh Bajpai, Manu Vardhan and Dharmender Singh Kushwaha, "Security Service Level Agreements based Authentication and Authorization Model for Accessing Cloud Services pp 719-729 ", Advances in Computing and Information Technology, ISBN No. 978-3-642-31513-8 ,Springer, Berlin, Heidelberg 2012.
16. Hemant Hariyale, Manu Vardhan and Dharmender Singh Kushwaha, "Load Balancing in Cluster using BLCR Checkpoint/Restart pp 729-737 ", Advances in Computing and Information Technology , ISBN No. 978-3-642-31513-8 , Springer, Berlin, Heidelberg 2012.
17. Manu Vardhan, Paras Gupta and Dharmender Singh Kushwaha, "OERD - On Demand and Efficient Replication Dereplication pp 425-434 ", Advances in Computer Science, Engineering & Applications , ISBN No. 978-3-642-30111-7, Springer, Berlin, Heidelberg 2012.
18. Manu Vardhan, AkhilGoel, AbhinavVerma, Shakti Mishra and Dharmender Singh Kushwaha, "On Demand Logical Resource Replication Scheme as a Service pp 31-36 ", Advances in Communication, Network, and Computing , ISBN No. 978-3-642-35615-5 , Springer, Berlin, Heidelberg 2012 .
19. Sanjeev Kumar Pippal, Shakti Mishra and Dharmender Singh Kushwaha, "Architectural Design and Issues for Ad-hoc Clouds pp 291-296 " ISBN No. 978-3-642-35615-5 , Springer, Berlin, Heidelberg 2012.
20. Aruna Kumari and Dharmender Singh Kushwaha, "Kerberos – Style Authentication and Authorization through CTES Model for Distributed Systems pp 457-46", Computer Networks and Intelligent Computing, ISBN No. 978-3-642-22786-8 , Springer, Berlin, Heidelberg ,2011.
21. Ashish Sharma and Dharmender Singh Kushwaha, "A SRS Document based Software Complexity Estimation and its Robustness Analysis pp 111-117 ", Computer Networks

- and Information Technologies , ISBN No. 978-3-642-19542-6 , Springer, Berlin, Heidelberg 2011.
22. Shakti Mishra, A.K. Mishra and Dharmender Singh Kushwaha, “Discovery & High Availability of Services in Auto-Load Balanced Clusters pp 491-500 ”, Advances in Computer Science and Information Technology, ISBN No. 978-3-642-17857-3 , Springer, Berlin, Heidelberg 2011.
  23. Shakti Mishra, A.K. Mishra and Dharmender Singh Kushwaha, “A Novel Approach for Building a Dynamically Reconfigurable Trustworthy Distributed System pp 258-262 ”, Information Processing and Management , Springer, Berlin, Heidelberg 2010.
  24. Awaghad Ashish Krishna Rao, Himanshu and Dharmender Singh Kushwaha, “Comparison of Performance of Sequential Learning Algorithms on the task of Named Entity”, Computational Science , ISBN No. 978-3-642-0, Springer, Berlin 2009.

### **Book**

1. A. K. Mishra and **Dharmender Singh Kushwaha**, “Data Structure A Programming approach with C” on Prentice Hall of India, SSNo: 978-81-203-4428-0, 2012.
2. A. K. Mishra and **Dharmender Singh Kushwaha**, “Data Structure A Programming approach with C 2nd edition” on Prentice Hall of India, SSNo: 978-81-203-5029-8., 2014