

LIST of PUBLICATIONS

PUBLICATION IN JOURNALS (SCI)

1. Pal, Nisha, Mahendra Pratap Yadav, and **Dharmendra Kumar Yadav**. "Appropriate number of analogues in analogy based software effort estimation using quality datasets." *Cluster Computing* (2023): 1-16.
2. Brajesh Kumar Umrao, and **Dharmendra Kumar Yadav**. "Placement of Virtual Network Function for Network Services ", *International Journal of Network Management*(2023): 10.1002/nem.2232.
3. Mahendra Pratap Yadav, and **Dharmendra Kumar Yadav**. "Resource Provisioning Through Machine Learning in Cloud Services." *Arabian Journal for Science and Engineering* (2022): 1-23.
4. Jalal, Sunita, and **Dharmendra Kumar Yadav**. "A Multiobjective Discrete Grey Wolf Optimization Approach for Transactional and QoS-driven Web Services Composition." *Applied Artificial Intelligence* 35, no. 15 (2021): 1646-1684.
5. Mahendra Pratap Yadav, Rohit and **Dharmendra Kumar Yadav** "Maintaining the Container Sustainability through Machine Learning" in *Journal of Cluster Computing* (2021), publisher Springer, <https://doi.org/10.1007/s10586-021-03359-4>.
6. Mahendra Pratap Yadav, Nisha Pal and **Dharmendra Kumar Yadav** "Resource Provisioning for Containerized Applications", published in *Journal of Cluster Computing*(2021), publisher Springer <https://doi.org/10.1007/s10586-021-03293-5>.
7. Mahendra Pratap Yadav, Nisha Pal and **Dharmendra Kumar Yadav**, "A Formal Approach for Docker Container Deployment" published in *Journal Concurrency and Computation: Practice and Experience* (2021) publisher Wiley, <https://doi.org/10.1002/cpe.6364>.
8. Brajesh Kumar Umrao, and **Dharmendra Kumar Yadav**. Algorithms for functionalities of virtual network: a survey. *J Supercomput* 77, 7368–7439 (2021). <https://doi.org/10.1007/s11227-020-03502-9>
9. Mishra, Ashish Kumar, **Dharmendra K. Yadav**, Yogesh Kumar, and Naman Jain. "Improving reliability and reducing cost of task execution on preemptible VM instances using machine learning approach." *The Journal of Supercomputing* 75 (2019): 2149-2180.
10. Mishra, Ashish Kumar, Brajesh Kumar Umrao, and **Dharmendra K. Yadav**. "A survey on optimal utilization of preemptible VM instances in cloud computing." *The Journal of Supercomputing* 74 (2018): 5980-6032.

PUBLICATION IN JOURNALS (Scopus)

1. Brajesh Kumar Umrao, and **Dharmendar Kumar Yadav**. "APVNFC: Adaptive Placement of Virtual Network Function Chains." *CYBERNETICS AND INFORMATION TECHNOLOGIES* 23, no. 1 (2023).
2. Jalal, Sunita, and **Dharmendra Kumar Yadav**. "Transaction and QoS-Driven Composition of Web Services Using Modified Grey Wolf Optimization with TOPSIS and AHP." In *Advances in Distributed*

Computing and Machine Learning: Proceedings of ICADCML 2022, pp. 109-119. Singapore: Springer Nature Singapore, 2022.

3. Mahendra Pratap Yadav, Gaurav Raj, Harishchandra Akarte, and **Dharmendra Kumar Yadav**, “Horizontal Scaling for Containerized Application Using Hybrid Approach” published in international journal of Ingénierie des Systèmes d’Information, Vol. 25, No. 6, pp. 709-718. <https://doi.org/10.18280/isi.250601> (Indexing - Scopus)-2020.
4. Ram Chandra Bhushan* and **Dharmendra Kumar Yadav**, “Formal Specification and Verification of Data Separation for Muen Separation Kernel”, Recent Advances in Computer Science and Communications (2020) 13: 1. <https://doi.org/10.2174/2666255813999200831103502>
5. Mahendra Pratap Yadav, Harishchandra Akarte, and **Dharmendra Kumar Yadav**, “Container Elasticity: Based on Response Time using Docker” published in international journal of Recent Advances in Computer Science and Communications. (Formerly: Recent Patents on Computer Science) publisher Bentham science (Indexing - Scopus)-2020, doi:10.2174/2666255813999201012192010.
6. Ram Chandra Bhushan* and **Dharmendra Kumar Yadav**, “A Survey on Formal Verification of Separation Kernels”, Recent Advances in Computer Science and Communications 2020; 13() . <https://doi.org/10.2174/2666255813666201207154230>.
7. Mahendra Pratap Yadav, Akanksha Kunwar, Ram Chandra Bhushan, and **Dharmendra Kumar Yadav**, “Web Server Workload Prediction using Time Series Model”, accepted in International Journal of Advanced Intelligence Paradigms publisher Inderscience (Indexing- Scopus)-2020, DOI: 10.1504/ijaip.2022.10034175
8. Bhushan, Ram Chandra, and **Dharmendra Kumar Yadav**. "Verification of Virtual Machine Architecture in a Hypervisor through Model Checking." Procedia Computer Science 167 (2020): 67-74.
9. Jalal, Sunita, **Dharmendra Kumar Yadav**, and Chetan Singh Negi. "Web service discovery with incorporation of web services clustering." International Journal of Computers and Applications (2019): 1-12. (Scopus)
10. Ram Chandra Bhushan; **Dharmendra Kumar Yadav** “Modelling and Formally Verifying Intel Vt-X: Hardware Assistance for Processors Running Virtualization Platforms” International Journal of Engineering and Advanced Technology (IJEAT) in March 2019,
11. Ram Chandra Bhushan, **Dharmendra Kumar Yadav** ”Modeling a Safety-Critical System through CCS” International Journal of Applied Engineering Research (IJAER) (Print ISSN 0973-4562, Online ISSN 1087--1090) Volume 12, No 21 pp. 11213-11217, 2017 (Scopus).
12. Ashish Kr.Mishra, **Dharmendra Kumar Yadav** ”Analysis And Prediction of Amazon EC2 Spot Instance Prices” International Journal of Applied Engineering Research (IJAER) (Print ISSN 0973-4562, Online ISSN 1087--1090) Volume 12, No 21 pp. 11205-11212, 2017 (Scopus).
13. Sonam Agarwal, Ashish Kumar Mishra, **Dharmendra Kumar Yadav**, “Forecasting Price of Amazon Spot Instances using Neural Networks” International Journal of Applied Engineering Research (IJAER) (Print ISSN 0973-4562, Online ISSN 1087--1090) Volume 12, No 20 pp. 10276-10283, 2017 (Scopus).
14. Ashish Kumar Mishra and **Dharmendra Kumar Yadav**, “Validation of UML Design Model”, In Journal of Software (JSW, ISSN 1796-217X) 10(12) Dec, 2015 page 1359

PUBLICATION IN BOOK CHAPTERS

1. Mahendra Pratap Yadav, Harishchandra Akarte, and **Dharmendra Kumar Yadav**, “An Approach for Load Balancing Through Genetic Algorithm” published as a book chapter in book with entitled ”Smart and Sustainable Intelligent Systems” publisher Scrivener Publishing (Wiley) in 2021 <https://doi.org/10.1002/9781119752134.ch36>.

PUBLICATION IN INTERNATIONAL CONFERENCES

1. Nisha Pal, Mahendra Pratap Yadav and **Dharmendra Kumar Yadav** "Modeling and Verification of Web Services Composition Using CWB-NC Tool", published in the " INCET 2021:2nd International Conference of Emerging Technologies” organize on date 21th - 23th May, 2021 at Jain College of Engineering & Technology, Belgaum Karnataka, INDIA.
2. Mahendra Pratap Yadav, Nisha Pal, and **Dharmendra Kumar Yadav**, “Workload Prediction over Cloud Server using Time Series Data”, published in the "Confluence-2021:11th International Conference on Cloud Computing, Data Science & Engineering (28th - 29th January, 2021) at Amity University Uttar Pradesh, Noida, India.
3. Mahendra Pratap Yadav, and **Dharmendra Kumar Yadav**, “Workload Prediction for Cloud Resource Provisioning using Time Series Data”, presented in 10th International Conference on Soft Computing for Problem Solving - SocProS 2020. Springer, Singapore, 2020, oorganized by Indian Institute of Technology Indore.
4. AK Mishra, A Kesarwani, **Dharmendra Kumar Yadav** Short Term Price Prediction for Preemptible VM Instances in Cloud Computing IEEE Sponsored 5th International Conference for Convergence in Technology (I2CT) 2019, Gateway Hotel (Taj), Xion Complex, Wakad Road, Hinjewadi Pune, India, 29th - 31th March, 2019
5. Ram Chandra Bhushan, and **Dharmendra Kumar Yadav** “Modeling and Verifying a Safety Critical System through mCRL2” in 8th International Conference on Cloud Computing, Data Science & Engineering (CONFLUENCE 2018) New Delhi, India 11-12 Jan 2018
6. Ram Chandra Bhushan, and **Dharmendra Kumar Yadav** “Number of test Cases Required in Achieving Statement, Branch and Path Coverage using ‘gcov’: An Analysis” 7th International Workshop on Computer Science and Engineering (WCSE 2017) (ISBN-978-981-11-3671-9) 2017.
7. Mishra, A., and **Dharmendra Kumar Yadav**. "Towards Validation of UML Design Model." International Conference on Communication and Signal Processing 2016 (ICCASP 2016). Atlantis Press, 2016.
8. Atul Vikas Lakra, and **Dharmendra Kumar Yadav**” Multi-Objective Tasks Scheduling Algorithm for Cloud Computing Throughput Optimization” International Conference on Intelligent Computing , Communication & Convergence Conference Organized by Inter- science Institute of Management and Technology, Bhubaneswar, Odisha, India , 2015
9. Manoj Kumar, **Dharmendra Kumar Yadav** and Vijay Kumar Gupta, “Frequent Term Based Text Document Clustering: New Approach” In International Conference on Soft Computing Techniques & Implementations(ICSCIT-2015), October 8-10, 2015 Faridabad, India.
10. Manoj Kumar, **Dharmendra Kumar Yadav**, Ankur Singh and Vijay Kumar Gupta, ”A Movie Recommender System :MOVREC”, In International Journal of computer Application 124(3), 7-11 August, 2015
11. Ashish Kumar Mishra and **Dharmendra Kumar Yadav**, “Towards Validation of UML Rules”, in International Conference of Computing Paradigms (ICCP-2015), Yelagiri Hills, India, July 24-25, 2015.

12. Yadvendra Pratap Singh , Ram Pal Singh, Ajai Kumar Singh and **Dharmendra Kumar Yadav** ,” Using GIS and Remote Sensing Technique for Zoning of Wastewater Drainage of Allahabad City”, In International Journal of Advanced Remote Sensing & GIS (IJARSG) 4(1) 2015
13. Vartika Bajpai, and **Dharmendra Kumar Yadav** ” Management and Validation of VGI” ICETACS (ISBN- 978-1-4673-5250-5) 2013
14. Sapana Shukla, Rama Shankar Yadav and **Dharmendra Kumar Yadav**, “Component Interoperability using Aspect Oriented Approach”, in 3rd IEEE Conference on Computer and Communication Technology (ICCCT-2012), Allahabad, India, Nov, 2012.
15. Vinod Kumar Yadav, Mahendra Pratap Yadav, and **Dharmendra Kumar Yadav** “Reliable Task Allocation in Heterogeneous Distributed System with Random Node Failure:Load Sharing Approach” International Conference on Computing Sciences 2012
16. Vinod Kumar Yadav, and **Dharmendra Kumar Yadav** “Reliable Task Allocation in Distributed System” In International Conference on Software Engineering Research and Practice (SERP'12) July 16-19, 2012, Las Vegas, , Nevada, USA.
17. Manu Vardhan, **Dharmendra Kumar Yadav**, and Dharmender Singh Kushwaha, “A Transparent ServiceReplication Mechanism for Clouds”, The Sixth International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS-2012), July 4th-July 6th, 2012, Palermo, Italy.
18. Krishna Giri and **Dharmendra Kumar Yadav**, “Modeling and Verifying Web Service Broker Based Architecture using CCS” In International Conference on Advances in Engineering, Science and Management (IEEE-ICAESM 2012) March 30-31, 2012, Nagapattinam, India.
19. Tulika Narang, **Dharmendra Kumar Yadav**, and Rama Shankar Yadav, “Modelling Time using Metapattern” In International Conference on Computer Technology and Development (ICCTD 2011) November 25-27, 2011, Chengdu, China.
20. Reshu Kapoor and **Dharmendra Kumar Yadav**, “Formal Description of Architectural Patterns” In International Conference on Computer and Software Modeling, (ICCSM 2011) September 16-18, 2011, Singapore.
21. Shrikant G. Ambade and **Dharmendra Kumar Yadav**, “Formalization of BIG Architecture Based on Pi Calculus” in International Conference on Information and Computer Technology (ICICT-2011) August 27- 28, 2011, Yantai, China.
22. Gopal SinghKushwah and **Dharmendra Kumar Yadav**, “Modeling and Verifying Web Services Composition Using PI-Calculus” In International Conference on Software Technology and Engineering (ICSTE 2011) August 12-14, 2011, Kuala Lumpur, Malaysia.
23. Tulika Narang and **Dharmendra Kumar Yadav**, “Capturing Dynamic Behavior in Relational Model” In International Conference on Software Engineering Research and Practice (SERP'11) July 18-21, 2011, Las Vegas, , Nevada, USA.
24. Shrabani Mallick, Namoo Narayan Meena, **Dharmendra Kumar Yadav**, Dharmender Singh Kushwaha, ”Composition of Heterogeneous Web Services for Converting Legacy Codes to SOA based Applications” in International Conference on Software Engineering and Data Engineering (SEDE-2011) June 20 – 22, 2011, Las Vegas, Nevada, USA.
25. Shakti Mishra, **Dharmendra Kumar Yadav**, D.S. Kushwaha and A.K.Mishra, “Self-Organizing Clusters for Load Balancing: A B+ Tree Based Approach” International Conference on Advances in Distributed and Parallel Computing, November 1-2, 2010, Singapore.
26. **Dharmendra Kumar Yadav** and R.K. Joshi, “Capturing interactions in architectural patterns” in IEEE 2nd International Advance Computing Conference (IACC 2010) 19-20 Feb 2010, Thapar University,Patiala, India.