- [193] Sandeep Saharan, Seema Bawa, Neeraj Kumar, Rajkumar Buaya, Foggy-Park: A Dynamic Pricing and NSGA based Allocation Scheme for On-Street Parking System, ZTA-NextGen '24: Proceedings of the SIGCOMM Workshop on Zero Trust Architecture for Next Generation Communications, (2024), pages 31 36.
- [192] Harcharan Jit Singh, Seema Bawa. Scalable Metadata Management Techniques for Ultra-Large Distributed Storage Systems–A Systematic Review. ACM Computing Surveys (CSUR), 51(4):82, (2018), pages 1 37 [SCI/SCIE] [Impact Factor =23.08].
- [191] Sandeep Saharan, Neeraj Kumar, Seema Bawa, Dy PARK: A Dynamic Pricing and Allocation Scheme for Smart On-Street Parking System, IEEE Transactions on Intelligent Transportation Systems, (2023), pages 4217 - 4234 (SCI) [IF 9.551].
- [190] Ajay Kumar, Seema Bawa & Neeraj Kumar, "iDP: ML-driven diabetes prediction framework using deep-ensemble modeling" Neural Computing and Applications (2023), pages 2525–2548. [SCIE] [IF = 6.0].
- [189] Venus Singla, Seema Bawa, and Jasmeet Singh "Improving accuracy using ML/DL in Vision based Techniques of ISLR" Multimedia Tools and Applications (2023), pages 20677–20698. [SCIE] [IF = 3.6].
- [188] Amit Kumar Bhardwaj, Seema Bawa, "Understanding the Voice and Emotions of the citizens of BRICS Nations on Outcome Based Education", European Chemical Bulletin (2023), pages 12941-12949.
- [187] Kaur, Sukhandeep, Seema Bawa, and Ravinder Kumar, "Segmentation-free composite character recognition (CR) in bilingual handwritten text for Gurumukhi–English scripts" Soft Computing (2023), pages 1-20. (SCI) IF=3.732).
- [186] Seema Bawa, "Enhancing Content Delivery through Visual Interventions, at National Conference on Outcome Based Education, held at Thapar Institute of Engineering and Technology, Patiala, Punjab, INDIA, April 17-18, 2023.
- [185] Kaur, Sukhandeep, Seema Bawa, and Ravinder Kumar, "Heuristic-based Text Segmentation of Bilingual Handwritten Documents for Gurumukhi-Latin Scripts" Multimedia Tools and Applications. (2023), pages 18667–18697 [SCIE] (IF=3.6).
- [184] Amit Kumar Bhardwaj, Seema Bawa, "Outcome Based Education: A Bibliometric Analysis for assessing future trends towards Quality Education", European Chemical Bulletin (2023), pages 12929-12940.
- [183] Harcharan Jit Singh, Seema Bawa, LaMeta: An efficient locality aware metadata management technique for an ultra-large distributed storage system, Journal of King Saud University Computer and Information Sciences 34 (2022), pages 8323–8335. [SCI] [IF= 9.00]
- [182] Kaur, Sukhandeep, Seema Bawa, and Ravinder Kumar, "Bilingual Documents Text line extraction using conditional GAN" in ICMLBDA (2022) at IIT Patna.
- [181] Darell Edmond, Vijay Prakash, Lalit Garg, Seema Bawa, "Adoption of Cloud Computing in Central Banks: Hindering factors and the recommendations for the way forward" Journal of Central Banking Theory and Practices 11, no. 2 (2022) pages 123-143. (eSCI and Scopus indexed).
- [180] Kaur, Sukhandeep, Seema Bawa, and Ravinder Kumar, "Evaluating Generative Adversarial Networks for Gurumukhi handwritten Character Recognition(CR)" in MISP 2022 at NIT Raipur, pages 503 513.
- [179] Vijay Prakash, Claudio Savaglio, Lalit Garg, Seema Bawa, Giandomenico Spezzano. "Cloud- and Edge-based ERP systems for Industrial Internet of Things and Smart Factory." International Conference on Industry 4.0 and Smart Manufacturing (ISM-2021), held at University of Applied Sciences Upper Austria, Vienna on 17-19th November, 2021 Procedia Computer Science Elsevier 200 (2022) pages 537-545. (Scopus).
- [178] Vijay Prakash, Lalit Garg, Elena Fomiceva, Sergio Vega Pineda, Alex Navia Santos, Seema Bawa, "A Framework for Masked-Image Recognition System in COVID-19 Era." The 4th International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R-2021), held at University of Malta, Malta on 8-10th December 2021. pages 195-209. Springer, Cham, 2022. (Scopus).
- [177] Hari Singh, Seema Bawa. Predicting COVID-19 statistics using machine learning regression model: Li-MuLi-Poly. Multimedia Systems Vol. 28 (1), pages 113-120, 2021.
- [176] Sitender, Seema Bawa. A sanskrit-to-english machine translation using hybridization of direct and rule-based approach. Neural Computing and Applications, volume 33, pages 2819–2838. Springer, 2021, [SCIE] [IF = 5.606].
- [175] Munish Kumar, Sitender, Seema Bawa, Sangeeta. A comprehensive survey on machine translation for english, hindi and sanskrit languages. Journal of Ambient Intelligence and Humanized Computing, pages 1–34. Springer, 2021, [SCIE] [IF = 7.10].
- [174] V. Mehta, S. Bawa, J. Singh. Stamantic Clustering: Combining Statistical and Semantic Features for Clustering of Large Text Datasets. Expert Systems with Applications, vol. 174, pages 114710, 2021. [SCIE] [IF = 6.954].

- [173] V. Mehta, S. Bawa, J. Singh, "WEClustering: Word Embeddings Based Text Clustering Technique for Large Datasets," Complex and Intelligent Systems, vol. 7(6), pages 3211-3224, 2021, [SCIE] [IF = 4.927].
- [172] G Sharma, PS Rana, S Bawa. Hybrid machine learning models for predicting types of Human T-cell Lymphotropic Virus. IEEE/ACM Transactions on Computational Biology and Bioinformatics, IEEE, 18(4), pages 1524-1534, 2021. [SCIE] [IF = 3.71].
- [171] Kaur, Sukhandeep, Seema Bawa, and Ravinder Kumar, "A survey of mono-and multi-lingual character recognition using deep and shallow architectures: indic and non-indic scripts" Artificial Intelligence Review 53 (2020): 1813-1872. (SCI IF=9.588).
- [170] G Sharma, A Kotia, SK Ghosh, PS Rana, **S Bawa**, MKH Ali. Kinematic Viscosity Prediction of Nanolubricants Employed in Heavy Earth Moving Machinery using Machine Learning Techniques. International Journal of Precision Engineering and Manufacturing, Springer, 21(10), pages 1921–1932, 2020. [SCIE] [IF = 2.11].
- [169] Vivek Mehta, Seema Bawa, Jasmeet Singh. WEClustering: word embeddings based text clustering technique for large datasets, Complex & Intelligent Systems, Pages 1-14, 2021. [SCIE] [IF = 4.927].
- [168] Sitender, Seema Bawa, Munish Kumar, Sangeeta. A comprehensive survey on machine translation for English, Hindi and Sanskrit languages Journal of Ambient Intelligence and Humanized Computing, Pages 1-34, 2021. [SCIE] [IF = 7.104].
- [167] Vijay Prakash, Seema Bawa, Lalit Garg. Multi Dependency and Time Based Scheduling Algorithm for Scientific Applications in Cloud Computing. Electronics, 10 (11):1320, 2021. [SCIE] [IF= 2.690].
- [166] Vijay Prakash, Alex Williams, Lalit Garg, Claudio Savaglio, Seema Bawa. Cloud and Edge Computing-based Computer Forensics: Challenges and Open Problems. Electronics, 10 (11): 1229, 2021 [SCIE] [IF = 2.690].
- [165] Marlene Marinho, Vijay Prakash, Lalit Garg, Claudio Savaglio, Seema Bawa. Effective Cloud Resource Utilisation in Cloud ERP Decision-Making Process for Industry 4.0 in the United States." Electronics, 10 (8), 959, 2021. [SCIE] [IF = 2.690].
- [164] Sandeep Saharan, Seema Bawa, Neeraj Kumar. op³ s: On-street occupancy based parking prices prediction system for its. In 2020 IEEE Globecom Workshops GC Wkshps), Taipei, Taiwan, pages 1–6. IEEE, 2020.
- [163] Sitender, Seema Bawa. A sanskrit-to-english machine translation using hybridization of direct and rule-based approach. Neural Computing and Applications, pages 1–20, 2020 [SCIE] [IF = 5.606].
- [162] Sitender, Seema Bawa. Sanskrit to universal networking language enconverter system based on deep learning and context-free grammar. Multimedia Systems, pages 1–17, 2020 [SCIE] [IF = 1.935].
- [161] Vivek Mehta, Seema Bawa, Jasmeet Singh. Analytical review of clustering techniques and proximity measures. Artificial Intelligence Review, 2020 [SCIE] [IF = 8.139].
- [160] Ajay Kumar, Seema Bawa. Adjacency cloud-oriented storage overlay topology using self-organizing m-way tree. In International Conference on Innovative Computing and Communications, pages 463–472. Springer, 2020.
- [159] Ajay Kumar, Seema Bawa. Dais: dynamic access and integration services framework for cloud-oriented storage systems. Cluster Computing, pages 1–20, 2020 [SCIE] [IF = 1.809].
- [158] Neenu Garg, Seema Bawa, Neeraj Kumar. An efficient data integrity auditing protocol for cloud computing. Future Generation Computer Systems, 2020 [SCIE] [IF = 7.187].
- [157] Sandeep Saharan, Neeraj Kumar, Seema Bawa. An efficient smart parking pricing system for smart city environment: A machine-learning based approach. Future Generation Computer Systems, 106:622 640, 2020 [SCIE] [IF = 7.187].
- [156] Sandeep Saharan, Seema Bawa, Neeraj Kumar. Dynamic pricing techniques for intelligent transportation system in smart cities: A systematic review. Computer Communications, 150:603 625, 2020 [SCIE] [IF = 3.167].
- [155] Ajay Kumar, Seema Bawa. A comparative review of meta-heuristic approaches to optimize the sla violation costs for dynamic execution of cloud services. Soft Computing, 24:3909–3922, 2020 [SCIE] [IF = 3.643].
- [154] Tristan Mercieca, Lalit Garg, Vijay Prakash, and Seema Bawa, "Big Data Analytics on Cloud Environment: Advantages, Limitations, and Issues." International Conference on Recent Developments in Computer & Information Technology (ICRDCIT) held in Ottawa, Canada, on July 27, 2019.
- [153] G. Sharma, P.S. Rana, S. Bawa. Hybrid machine learning models for predicting types of human t-cell lymphotropic virus. IEEE/ACM Transactions on Computational Biology and Bioinformatics, pages 1–1, 2019 [SCIE] [IF = 3.71].
- [152] Sukhandeep Kaur, Seema Bawa, Ravinder Kumar. A survey of mono-and multi-lingual character recognition using deep and shallow architectures: indic and non-indic scripts. Artificial Intelligence Review, pages 1–60, 2019 [SCIE] [IF = 8.139].
- [151] Hari Singh, Seema Bawa. An improved integrated grid and mapreduce-hadoop architecture for spatial data: Hilbert tgs r-tree-based igsim. Concurrency and Computation: Practice and Experience, 31(17): e5202, 2019 [SCIE] [IF = 1.536].

- [150] Supreet Kaur, Seemu Sharma, Seema Bawa. Smart indoor air quality monitoring system. 2019.
- [149] Kenndy Njenga, Lalit Garg, Amit Kumar Bhardwaj, Vijay Prakash, Seema Bawa. The cloud computing adoption in higher learning institutions in kenya: Hindering factors and recommendations for the way forward. Telematics and Informatics, 38:225–246, 2019 [SCIE] [IF = 9.140].
- [148] Manisha Bhardwaj, Seema Bawa. Fuzz testing in stack-based buffer overflow. In Advances in Computer Communication and Computational Sciences, pages 23–36. Springer, 2019.
- [147] Nishtha Hooda, Seema Bawa, Prashant Singh Rana. B2fse framework for high dimensional imbalanced data: A case study for drug toxicity prediction. Neurocomputing, 276:31–41, 2018 [SCIE] [IF = 5.719].
- [146] Ajay Kumar, Seema Bawa. Generalized ant colony optimizer: swarm-based meta-heuristic algorithm for cloud services execution. Computing, pages 1–24, 2018 [SCI/SCIE] [IF = 2.220].
- [145] Lohit Kapoor, Seema Bawa, Ankur Gupta. Intercloud: A hype or reality? international journal of next-generation computing, 9 (3), 2018 [esci].
- [144] Nishtha Hooda, Seema Bawa, Prashant Singh Rana. Fraudulent firm classification: A case study of an external audit. Applied Artificial Intelligence, 32(1):48–64, 2018 [SCIE] [IF = 1.580].
- [143] Nishtha Hooda, Seema Bawa, Prashant Singh Rana. Mctope en s em ble machine learning framework: A case study of routing protocol prediction. In 2018 IEEE 3rd International Conference on Computing, Communication and Security (ICCCS), pages 92–99. IEEE, 2018.
- [142] Seemu Sharma, Seema Bawa, Hitashi Lomash. Approaches in cultural computing: A survey and inference from social computing with dynamics of mind. Wireless Personal Communications, 103(4):2693–2713, 2018 [SCIE] [IF = 1.671].
- [141] Sitender, Seema Bawa. Sansunl: A sanskrit to unl enconverter system. IETE Journal of Research, pages1–12, 2018 [SCIE] [IF = 2.333].
- [140] Neenu Garg, Seema Bawa. Rits-mht: Relative indexed and time stamped merkle hash tree based data auditing protocol for cloud computing. Journal of Network and Computer Applications, 84:1–13, 2017 [SCIE] [IF = 6.281].
- [139] Amit Dua, Neeraj Kumar, Seema Bawa. Reidd: reliability-aware intelligent data dissemination protocol for broadcast storm problem in vehicular ad hoc networks. Telecommunication Systems, 64(3):439–458, 2017 [SCIE] [IF= 2.314].
- [138] Nishtha Hooda, Seema Bawa, Prashant Singh Rana. T-ensemble approach for drug toxicity prediction. International Journal of Computer Science and Information Security, 15(1):545, 2017.
- [137] Amit Dua, Neeraj Kumar, Seema Bawa. Game theoretic approach for real-time data dissemination and offloading in vehicular ad hoc networks. Journal of Real-Time Image Processing, 13(3):627–644, 2017 [SCIE] [IF = 2.358].
- [136] Hari Singh, Seema Bawa. A survey of traditional and mapreducebased spatial query processing approaches. ACM SIGMOD Record, 46(2):18–29, 2017 [SCI/SCIE] [IF = 0.775].
- [135] Hari Singh, Seema Bawa. A mapreduce-based scalable discovery and indexing of structured big data. Future Generation Computer Systems, 73:32–43, 2017 [SCIE] [IF = 7.187].
- [134] Sudhir Goyal, Seema Bawa, Bhupinder Singh. Green service level agreement (gsla) framework for cloud computing. Computing, 98(9):949–963, 2016 [SCI/SCIE] [IF = 2.220].
- [133] Seemu Sharma, Seema Bawa, Hitashi Lomash. Proliferation of social computing: Cultural computing paradigm. International Journal of Computer Applications, 137(9), 2016.
- [132] Lohit Kapoor, Seema Bawa, Ankur Gupta. Detecting and containing malicious services in an intercloud environment. J. Web Eng., 15(5&6):521–538, 2016.
- [131] Neenu Garg, Seema Bawa. Comparative analysis of cloud data integrity auditing protocols. Journal of Network and Computer Applications, 66:17–32, 2016 [SCIE] [IF = 6.281].
- [130] Sudhir Goyal, Seema Bawa, Bhupinder Singh. Energy optimised resource scheduling algorithm for private cloud computing. International Journal of Ad Hoc and Ubiquitous Computing, 23(1-2):115–123, 2016 [SCIE] [IF = 0.654].
- [129] Pawan Lachheta, Seema Bawa. Combining synthetic minority oversampling technique and subset feature selection technique for class imbalance problem. In Proceedings of the International Conference on Advances in Information Communication Technology & Computing, page 25. ACM, 2016.
- [128] Sukhandeep Kaur, Seema Bawa. A review on energy aware vm placement and consolidation techniques. In Inventive Computation Technologies (ICICT), International Conference, volume 3, pages 1–7. IEEE, 2016.

- [127] Hari Singh, Seema Bawa. Spatial data analysis with arcgis and mapreduce. In Computing, Communication and Automation (ICCCA), 2016 International Conference on, pages 45–49. IEEE, 2016.
- [126] Seema Bawa. Igsim: An integrated architecture for high performance spatial data analysis. International Journal of Computer Science and Information Security, 14(11):302, 2016.
- [125] Hari Singh, Seema Bawa. SCALABILITY AND FAULT TOLERANCE OF MAPREDUCE FOR SPATIAL DATA. Global Journal of Engineering Science and Research Management, 3(8):97–103, August 2016.
- [124] Seemu Sharma, Hitashi Lomash, Seema Bawa. Who regulates ethics in the virtual world? Science and engineering ethics, 21(1):19–28, 2015 [SCI/SCIE/SSCI] [IF = 3.525].
- [123] Amit Dua, Neeraj Kumar, Seema Bawa, Joel JPC Rodrigues. An intelligent context-aware congestion resolution protocol for data dissemination in vehicular ad hoc networks. Mobile Networks and Applications, 20(2):181–200, 2015 [SCIE] [IF = 3.426].
- [122] Seemu Sharma, Seema Bawa, Hitashi Lomash. Web presence of indian digital culture. Preservation, Digital Technology & Culture, 44(2):62-68, 2015.
- [121] Vandana Jindal, AK Verma, Seema Bawa. Green wsn-optimization of energy use through reduction in communication workload. arXiv preprint arXiv:1506.04849, 2015.
- [120] Vandana Jindal, AK Verma, Seema Bawa. Quantitative reduction in communication load for energy efficiency in wsn. Wireless Personal Communications, 85(4):2795–2810, 2015 [SCIE] [IF = 1.671].
- [119] Lohit Kapoor, Seema Bawa, Ankur Gupta.Peer clouds: A p2p-based resource discovery mechanism for the intercloud. International Journal of Next-Generation Computing, 6(3), 2015 [ESCI].
- [118] Amit Dua, Neeraj Kumar, Seema Bawa. Qos-aware data dissemination for dense urban regions in vehicular ad hoc networks. Mobile Networks and Applications, 20(6):773–780, 2015 [SCIE] [IF = 3.426].
- [117] Amit Dua, Neeraj Kumar, Seema Bawa. An energy efficient data dissemination and information retrieval scheme for vanet. In Data Science and Data Intensive Systems (DSDIS), 2015 IEEE International Conference on, pages 427–434. IEEE, 2015.
- [116] Vandana Jindal, AK Verma, Seema Bawa. Quantitative reduction in communication load for energy efficiency in wsn. Wireless Personal Communications, 85(4):2795–2810, 2015 [SCIE] [IF = 1.671].
- [115] Vikas Jindal, Seema Bawa, Shalini Batra. A query-context oriented approach to semantic search on web. International Journal of Artificial Intelligence and Knowledge Discovery, 5(1), 2015.
- [114] Vandana Jindal, Anil Verma, Kumar, Seema Bawa. Two pronged strategy for energy optimization in wsns by using innetwork compression and synthesis of multiple queries at base-station. In International Conference on Systems, Control, Signal Processing and Informatics (SCSI 2015), pages 135–141, 2015.
- [113] Vikas Jindal, Seema Bawa, Shalini Batra. A review of ranking approaches for semantic search on web. Information Processing & Management, 50(2):416–425, 2014 [SSCI/SCIE] [IF = 6.222].
- [112] Sudhir Goyal, Seema Bawa, Bhupinder Singh. Experimental comparison of three scheduling algorithms for energy efficiency in cloud computing. In Cloud Computing in Emerging Markets (CCEM), 2014 IEEE International Conference on, pages 1–6. IEEE, 2014.
- [111] Aayush, **Seema Bawa**. Performance analysis of nosql databases having hadoop integration. In International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA- 14). Elsevier, 2014.
- [110] Shatrughan Modi, Dr Bawa, et al. Automated coin recognition system using ann. arXiv preprint arXiv:1312.6615, 2013.
- [109] Lohit Kapoor, Seema Bawa, Ankur Gupta. Hierarchical chord-based resource discovery in intercloud environment. In Proceedings of the 2013 IEEE/ACM 6th International Conference on Utility and Cloud Computing, pages 464–469. IEEE Computer Society, 2013.
- [108] Harkiran Kaur, Seema Bawa. Use of semantic relatedness for intelligent access to cultural information. International Journal of Computer Applications, 64(15), 2013 [IF = 3.12].
- [107] Amandeep Bakshi, Seema Bawa. A survey of search and retrieval of components from software repositories. International Journal of Engineering research and Technology, 2(4), 2013 [IF = 0.17].
- [106] Gurkiran Kaur, Seema Bawa. A survey of requirement prioritization methods. International Journal of Engineering research and Technology, 2(4), 2013 [IF = 0.17].
- [105] Ajay Kumar, Seema Bawa. Software metrics and data collection in terms of faults, failures and changes. International Journal of Software and Web Sciences, pages 42–47, 2013 [IF = 5.88].

- [104] Ajay Kumar, Seema Bawa. Performance modeling and simulation for large-scale data set in cloud comput- ing. In National Conference on Recent Trends in Mathematics and its Applications [NCRTMA-2013]. 2013.
- [103] Ajay Kumar, Seema Bawa. Virtualization of large-scale data storage system to achieve dynamicity and scalability in grid computing. In Advances in Computer Science, Engineering & Applications, pages 323–331. Springer, 2012.
- [102] Ajay Kumar, Seema Bawa. Distributed and big data storage management in grid computing. arXiv preprint arXiv:1207.2867, 2012.
- [101] Hari Singh, Seema Bawa. Evolution of grid-gis systems. International Journal of Computer Science and Telecommunications, 3(3):36–40, 2012 [IF = 0.765].
- [100] Ajay Kumar, Seema Bawa. A survey on big data analysis and approaches in cloud environments. In International Conference on "Emerging Paradigms and Practice in Information & Communication Technology and Management. 2012.
- [99] Shalini Batra, Seema Bawa. Semantic discovery of web services using principal component analysis. Inter- national Journal of Physical Sciences, 6(18):4466–4472, 2011 [IF = 0.37].
- [98] Shashi Bhanwar, Seema Bawa. Pluggable, interoperable and extensible (pie): A grid portal for interoper- ability. International Journal of Physical Sciences, 6(22):5329–5344, 2011 [IF = 0.37].
- [97] Ajay Kumar, Seema Bawa. Performance modeling and run time estimation for large-scale data and computational grid. In International Conference on Advance in Modeling, Optimization and Computing, IIT Roorkee (UK), India, 2011.
- [96] Anju Sharma, Seema Bawa. Resource discovery algorithm with graph theoretical approach in grid envi-ronment. In 3rd International IEEE Conference on Machine Learning and Computing (ICMLC 2011), pages 258–262, 2011.
- [95] Ajay Kumar, Seema Bawa. Efficient idleness data storage management in grid environments. In International Conference ETCSIT-2011. 2011.
- [94] Vandana Jindal, Anil Verma, Kumar, Seema Bawa. Middleware a necessary evil for wsns. In IEEE International Conference on Advances in Computing and Communications (ICACC'11), 2011.
- [93] Vandana Jindal, AK Verma, Seem Bawa. Query processing. International Journal of Computer Science and Information Technology, 2011 [IF = 0.553].
- [92] Shatrughan Modi, Seema Bawa. Automated coin recognition approaches and techniques. In International Conference on Issues & Challenges in Networking, Intelligence & Computing Technologies, 2011.
- [91] Ajay Kumar, Seema Bawa. Network security: Goals, services and mechanisms in grid computing environments. International Journal of Computer Applications IJCA Special Issue on CCNS, 2011 [IF = 3.12].
- [90] Ajay Kumar, Seema Bawa. Software metrics data collection and store in terms of faults, failures and changes problems. Archives Des Sciences Journal, 2011 [IF = 0.296].
- [89] Shalini Batra, Seema Bawa. Using lsi and its variants in text classification. In Advanced Techniques in Computing Sciences and Software Engineering, pages 313–316. Springer, 2010.
- [88] Shalini Batra, Seema Bawa. Web service categorization using normalized similarity score. International Journal of Computer Theory and Engineering, 2(1):139, 2010.
- [87] Shashi Bhanwar, Seema Bawa. Tux-intero: A portal for secure interoperation of grids. Int. J. Eng. Sci. Technol, 2:3335– 3343, 2010 [ESCI] [IF = 0.857].
- [86] Inderveer Chana, Seema Bawa. Extending self-healing in grid environment by pulse monitoring. Multiagent and Grid Systems, 6(3):245–260, 2010 [ESCI].
- [85] Shalini Batra, Seema Bawa. Review of machine learning approaches to semantic web service discovery. Journal of Advances in Information Technology, 1(3):146–151, 2010.
- [84] Bhupinder Singh, Seema Bawa. Grid enabled architecture for dwdm network design and optimization tool. Global Journal of Computer Science and Technology, 2010 [IF = 2.33].
- [83] Bhupinder Singh, Seema Bawa. Hybridsgsa: Sexualga and simulated annealing based hybrid algorithm for grid scheduling. Global Journal of Computer Science and Technology, 2010 [IF = 2.33].
- [82] Shalini Batra, Seema Bawa. A framework for semantic discovery of web services. In Proceedings of the 5th international conference on Ubiquitous and Collaborative Computing, pages 22–27. BCS Learning & Development Ltd., 2010.

- [81] Th. Tangkeshwar, P.K. Bansal, Seema Bawa. Off-line handwritten digit recognition of manipuri script using back propagation neural network. International Journal of Computer Science & Engineering Systems, IJCSES, 4(2), 2010 [IF = 3.022].
- [80] Seema Bawa, Shashi. Enhancing reputation in a trust based system. In LNCS, CNSA-2010. Springer, 2010.
- [79] Vandana Jindal, Anil Verma, Kumar, Seema Bawa. Cosmos vs. cougar. In Proceedings of International Conference on Systemics, Cybernetics, Informatics, pages 291–294, 2010.
- [78] Vandana Jindal, Anil Verma, Kumar, Seema Bawa. A comparative study of various oss for wsns. In International Conference on Informatics, Cybernetics and Computer Applications (ICICCA), 2010.
- [77] Shashi, Seema Bawa. Interoperability: Bridging the gap. International Journal of Computer Applications, 7(12):15–21, 2010 [IF = 3.12].
- [76] Seemu Sharma, Seema Bawa, Hitashi Lomash. Ethical issues in social networking sites. In International Conference on Business Ethics and Human Values, 2010.
- [75] Vandana Jindal, Anil Verma, Kumar, Seema Bawa. Query processing. In Proceedings of International Conference on Computer Applications –Database Systems (ICCA 2010), pages 221–226, 2010.
- [74] Seema Bawa, A j a y Kumar, Vishnu Sharma. Dynamic and scalable data storage management in grid environments. In National Conference on Emerging trend in Engineering and Sciences. 2010.
- [73] Ajay Kumar, Seema Bawa, Vishnu Sharma. Dynamic and scalable storage management in grid computing. In NCETES-2010 SATI. 2010.
- [72] Shalini Batra, Seema Bawa. Semantic categorization of web services. International Journal of Recent Trends in Engineering, 2(3):19, 2009.
- [71] Shashi Bhanwar, Seema Bawa. Establishing and evaluating trust in a grid environment. In Pervasive Systems, Algorithms, and Networks (ISPAN), 2009 10th International Symposium on, pages 674–678. IEEE, 2009.
- [70] Shashi, Seema Bawa. Tux-tms: A reputation based trust system", international journal of security. CSC Publications, 4(1):1–16, 2009.
- [69] Kumar Sandeep, PK Bansal, Seema Bawa. Modified quad tree network with architectural analysis (m quad). International journal of engineering intelligent systems for electrical engineering and communications, 16(3):155–164, 2008 [IF = 0.205].
- [68] Anju Sharma, Seema Bawa. Comparative analysis of resource discovery approaches in grid computing. Journal of Computers, 3(5):60–64, 2008.
- [67] Bhupinder Singh, Seema Bawa. Grid resource discovery using natural mobile agents. International journal of computer science and network security, 8(11):411–415, 2008 [ESCI] [IF = 1.5].
- [66] Seema Bawa, Shashi. Evaluating trust in a grid environment. In Student Research Symposium, HiPc, 2008.
- [65] Anju Sharma, Seema Bawa. A framework for resource discovery in gridenvironment. In International Conference on Data Engineering and Management "ICDEM2008", pages 195–198, 2008.
- [64] Inderveer Chana, Seema Bawa. Incorporating enhanced resource provisioning in a grid resource management system. International Transactions on Systems Science and Applications, 3(4):378–386, 2008 [IF = 5.0].
- [63] Anju Sharma, Seema Bawa. Optimized resource discovery algorithm for grid computing. International Journal of Computational Science, 2(1):157–165, 2008 [SCIE] [IF = 3.976].
- [62] Anju Sharma, Seema Bawa. Tugrid portal: A secure and user-friendly interface. International Transaction on Systems Science and Applications (ITSSA), 4(2):188–193, 2008 [IF = 5.0].
- [61] Inderveer Chana, Seema Bawa. Pratham: A framework for resource management in grid environment. International Journal of Advanced Computer Engineering, 1(2):45–55, 2008.
- [60] Seema Bawa, Kabir Oberoi. Multiagent based resource allocation in grid environment. In National Conference on Research & Development in Hardware & Systems (CSI- RDHS 2008), 2008.
- [59] Shashi, Seema Bawa. Securing a grid. In International Conference CGCS-2008: Cluster and Grid Computing Systems, pages 7–12. WASET (World Academy of Science, Engineering and Technology), 2008.
- [58] Shashi, Seema Bawa. Managing trust and interoperability in grid. In International Conference GHC-2008 (Grace Hooper Celebration of Women in Computing), 2008.

- [57] Gurpreet Kaur, Seema Bawa. Makespan optimization algorithm for grid environment. In 12th IEEE International Workshop on Future Trends of Distributed Computing Systems (FTDCS 2008). IEEE, 2008.
- [56] Shashi, Seema Bawa. Trust management systems in grid environments. In 5th International Conference on Computer Networks and Security (ICCNS'08). WASET (World Academy of Science, Engineering and Technology), 2008.
- [55] Bhupinder Singh, Seema Bawa. Aco based optimized scheduling algorithm for computational grids. In Proceedings of the third conference on IASTED International Conference, pages 283–286, 2007.
- [54] Sarbjeet Singh, Seema Bawa. A privacy, trust and policy based authorization framework for services in distributed environments. International Journal of Computer Science, 2(2):85–92, 2007 [IF = 0.33].
- [53] Sarbjeet Singh, Seema Bawa. A privacy policy framework for grid and web services. Information Technology Journal, 6(6):809–817, 2007 [IF = 0.11].
- [52] Gaurav Vohra, Seema Bawa. Compile time task scheduling in alchemi: A grid middleware. In IEEE Student Chapter Conference: ELECTICA-2007, pages 25–28, 2007.
- [51] Ruchi Garg, Seema Bawa. Grid resource discovery using web services. In IEEE Student Chapter Conference: TROIKA'07, 2007.
- [50] Gaurav Vohra, Anurag Gothi, Seema Bawa. Grid resource scheduling: challenges and feasible solutions. In National Seminar on Recent Advances in Information Technology, pages 23–31, 2007.
- [49] Ratnesh Nath, Kumar, Seema Bawa, Inderveer Chana. Load balancing in grid environment: Strategies, algorithms and policies. In National Symposium on Security and Soft Computing (NSSC-2007), 2007.
- [48] Ratnesh Nath, Kumar, Seema Bawa, Inderveer Chana. Load balancing issues in grid environment. In National Seminar on Recent Advancement in Information Technology (RAIT-2007), 2007.
- [47] Anju Sharma, Seema Bawa. Qos integrated resource discovery in a campus grid: A case study. In ICISTM 2007: International Conference on Information Systems, Technology and Management, 2007.
- [46] Inderveer Chana, Seema Bawa. Semantic service discovery in a grid environment. In ICISTM 2007: International Conference on Information Systems, Technology and Management, pages 62–67, 2007.
- [45] Ruchi Garg, Seema Bawa. Web services based grid resource discovery. In National Seminar on Business Transformation Through Technological Integration, 2007.
- [44] Anurag Gothi, **Seema Bawa**. Features of grid resource allocation patterns. In National Seminar on Business Transformation Through Technological Integration, 2007.
- [43] Sandeep Sachdeva, P.K. Bansal, Seema Bawa. Highly fault- tolerant irregular interconnection network for multiprocessor systems. Journal of the CSI, 37(1):54–60, 2007.
- [42] Anurag Gothi, Seema Bawa. Grid resource allocation: Challenges and processes. In National Conference on Information Technology: Emerging Engineering Prospective and Practices-ITEEPP"07, 2007.
- [41] Santosh Jaiswal, Inderveer Chana, Seema Bawa. Ontology based resource discovery in grid. In National Conference on Information Technology: Emerging Engineering Perspective and Practices, ITEEPP'07 2007, 2007.
- [40] Seema Bawa. Analysis of computational grid environments. In 7th International Conference on Computational and Mathematical Methods in Science & Engineering: CMMSE 07, 2007.
- [39] Seema Bawa, Anju Sharma. A deadlock detection algorithm for grid resource management. In 7th In- ternational Conference on Computational and Mathematical Methods in Science & Engineering: CMMSE 07, 2007.
- [38] Anurag Gothi, Seema Bawa. Performance optimization oriented resource allocation in grid computing. In International Conference on Emerging Trends In High Performance Architecture, Algorithms & Computing, HiPAAC 2007, 2007.
- [37] Santosh Jaiswal, Inderveer Chana, Seema Bawa. Hybrid approach of resource discovery in grid. In International Conference on Emerging Trends in High Performance Computing Architecture Algorithms and Computing, HiPAAC 2007, 2007.
- [36] Inderveer Chana, Seema Bawa. Fault tolerance in grid middleware: Alchemi.net, an enhanced approach, In International Conference on Emerging Trends in the High Performance Architectures, Algorithms and Com- puting, pages 63–68, 2007.
- [35] Gaurav Vohra, Seema Bawa. A compile time task scheduling algorithm in grid computing environ- ment. In International Conference on High Performance Computing, Networking and Communication Systems (HPCNCS-07), 2007.

- [34] Sandeep Sachdeva, P.K. Bansal, Seema Bawa. Modified augmented shuffle exchange network (masen). Journal of the CSI, 37(2):17–27, 2007.
- [33] Anju Sharma, Seema Bawa. Portal for the computational grid: Tu grid portal. In HiPAAC 2007: Interna- tional Conference on Emerging Trends in High Performance Architecture Algorithms & Computing, page 218, 2007.
- [32] Sarbjeet Singh, Seema Bawa. Enabling trust and privacy based access for grid services. Journal of Computer Science (JCS), 1(5):357–365, 2007 [IF = 0.3].
- [31] Inderveer Chana, Seema Bawa. Extending autonomic capabilities to a campus wide grid. In International Conference on Embedded Systems, Mobile Communication and Computing, 2007.
- [30] Bhupinder Singh, Seema Bawa. Meta- heuristic techniques for grid resource management system. SIEMENS SISL Journal, 1:20–25, 2007.
- [29] Inderveer Chana, Seema Bawa. Self-managed resource model with resource provisioning capability for a grid environment. Special Issue on Advances in Computing and Optimization Techniques, International Journal of Applied Mathematical Analysis and Applications, 2(1-2):229–241, 2007 [IF = 1.712].
- [28] Sandeep Kumar, P.K. Bansal, Seema Bawa. Hybrid architecture for multistage interconnection networks in multiprocessor systems. Journal of the CSI, 37(4):39–50, 2007.
- [27] Sarbjeet Singh, Seema Bawa. Design of a framework for handling security issues in grids. In Information Technology, 2006. ICIT'06. 9th International Conference on, pages 178–179. IEEE, 2006.
- [26] Sarbjeet Singh, Seema Bawa. A framework for handling security problems in grid environment using web services security specifications. In Semantics, Knowledge and Grid, 2006. SKG'06. Second International Conference on, pages 68–68. IEEE, 2006.
- [25] Maninder Singh, Seema Bawa, SC Saxena. Mandatory security arsenal for survival on the internet: Techniques and remedial actions. 2006.
- [24] Seema Bawa. Developments in path delay fault models for testing vlsi circuits. In Indian Microelectronics Society: IMS Conference, 2006.
- [23] Sarvjot Kaur, Seema Bawa, Shalini Batra. Resource discovery in grid environment. In National Conference on Computer Science and Information Technology, NCCSIT 2006, 2006.
- [22] Meena Gupta, Vikas Mangla, Seema Bawa. Resource scheduling in grid environment. In National Conference on Computer Science and Information Technology, NCCSIT 2006, 2006.
- [21] Anju Sharma, Seema Bawa. Performance analysis of various resource discovery approaches in grid computing. In Recent Trends in Engineering and Computational Techniques, REACT- 2006, 2006.
- [20] Jagdish Kumar, Seema Bawa, Maninder Singh. Authentication in grid environment. In Recent Trends in Engineering and Computational Techniques, REACT- 2006, 2006.
- [19] Sarvjot Kaur, Seema Bawa, Shalini Batra. Resource discovery in gridenvironment. In International Conference on Grid Computing and Applications GCA'06, 2006.
- [18] Maninder Singh, Seema Bawa, S.C. Saxena. A proactive network surveillance framework for improving network security across information value chain. International Review on Computers and Software (IRECOS), 1(1):43–51, 2006 [IF = 0.336].
- [17] Maninder Singh, Seema Bawa, S.C. Saxena. Managing it infrastructure using honeynets: A proactive network security technology. Apeejay Journal of Management and Technology, 1(2):37–41, 2006.
- [16] Inderveer Chana, Seema Bawa. Grid middleware technologies and ogsa: A comparative study. International Review on Computers and Software (IRECOS), 1(3):202–208, 2006 [IF = 0.336].
- [15] Th. Tangkeshwar, P.K. Bansal, R e n u Vig, **Seema Bawa**. Off- line handwritten character recognition of meetei (manipuri) ccript. In ICT Prospects, Strategies and Security aspects in N.E. Region, pages 33–39, 2006.
- [14] Seema Bawa, GK Sharma. Search space pruning for faster test generation based on parallel and adaptive ga. In 9th IEEE VLSI Design & Test Symposium: VDAT, pages 11–13, 2005.
- [13] Sarbjeet Singh, Seema Bawa. Security policies: Key factor for success of grid services. In International Conference on Challenges and Opportunities in IT Industry (ICCII) Nov, 2005.
- [12] B. Bansal, S. Bawa. Design and development of grid portals. In TENCON 2005-2005 IEEE Region 10 Conference, pages 1–5, Nov 2005.

- [11] Bhawna Bansal, Seema Bawa. Creation of a grid environment and grid portals. In IEEE Tencon, Melbourne, Australia, pages 1925–1929. IEEE, 2005.
- [10] Maninder Singh, Seema Bawa. Applying military doctrine to network security. In International Conference on e-Security, Cyber Crime & Law, 2004.
- [9] Seema Bawa, GK Sharma. Parallel simulated annealing based test generation in distributed computing paradigms. In PARA'04 State-of-the-Art in Scientific Computing, 2004.
- [8] Sunidhi Bhalla, **Seema Bawa**. Parallel transitive closure algorithm in a distributed computing environment. In Proceedings of TCTE, 2004.
- [7] Bhawna Saxena, Seema Bawa. Grid portals: usage, availability and development issues. In International Conference on Emerging Technologies, 2004.
- [6] Seema Bawa, Anil Kumar. Bio-data grid: A data grid for bioinformatics. In Asia Pacific Conference ObComAPC, Parallel & Distributed Computing Technologies, pages 67–79, 2004.
- [5] D Garg, S Bawa, SC Saxena. India as leading ites (bpo) hub. 2003.
- [4] Seema Bawa, Ambrish Misra, GK Sharma. A practical transitive closure based approach for distributed test generation. In IEEE International Conference on Information Visualisation. IEEE, 2003.
- [3] Seema Bawa, GK Sharma. A parallel transitive closure computation algorithm for vlsi test generation. In International Workshop on Applied Parallel Computing, pages 243–252. Springer, 2002.
- [2] Seema Bawa, GK Sharma. An efficient quadratic 0-1 programming algorithm for vlsi test generation. In Proceedings of IEEE Design and Diagnostics of Electronic Circuits & Systems (DDECS) Workshop, pages 262–269. IEEE, 2002.
- [1] Seema Bawa, GK Sharma. Distributed test generation. In All India Seminar on Recent Trends in VLSI, 2001.