

Publications of Dr. Ashish Kumar Maurya

PATENT

1. "A Framework for Reliability & Performance Analysis of Safety-Critical System using Stochastic Modeling," 202031014381, Published, 05/2020.

PUBLICATIONS

➤ Research Papers in International Journals (Indexed in SCI/SCIE): 08

1. Vinay Kumar, **Ashish Kumar Maurya**, Karam Veer Singh, Lalit Kumar Singh, Pooja Singh, Aditya Narayan Hati, Vibhav Prakash Singh, "Safety analysis of safety-critical systems for their applicability on NPP systems: A state-of-the-art review," *Quality and Reliability Engineering International*, Wiley, pp. 1-36, 2021. [Available as Early View article]
<https://doi.org/10.1002/qre.2828>
2. Amit Biswas, **Ashish Kumar Maurya**, Anil Kumar Tripathi, and Samir Aknine, "FRLL: a failure rate and load-based leader election algorithm for a bidirectional ring in distributed systems," *The Journal of Supercomputing*, Springer US, Vol. 77, pp. 751-779, 2021.
<https://doi.org/10.1007/s11227-020-03286-y>
3. **Ashish Kumar Maurya**, Kashish Modi, Vinay Kumar, Nenavath Srinivas Naik, Anil Kumar Tripathi, "Energy-aware scheduling using slack reclamation for cluster systems," *Cluster Computing*, Springer, Vol. 23, No. 2, pp. 911-923, 2020. <https://doi.org/10.1007/s10586-019-02965-7>
4. **Ashish Kumar Maurya**, and Anil Kumar Tripathi, "An Edge Priority-based Clustering Algorithm for Multiprocessor Environments," *Concurrency and Computation: Practice and Experience*, Wiley, Vol. 31, No. 11, e5060, 2019. <https://doi.org/10.1002/cpe.5060>
5. **Ashish Kumar Maurya**, and Anil Kumar Tripathi, "ECP: a novel clustering-based technique to schedule precedence constrained tasks on multiprocessor computing systems," *Computing (Vienna/ New York)*, Springer, Vol. 101, No. 8, pp. 1015-1039, 2019.
<https://doi.org/10.1007/s00607-018-0636-3>
6. **Ashish Kumar Maurya**, and Anil Kumar Tripathi, "On benchmarking task scheduling algorithms for heterogeneous computing systems," *The Journal of Supercomputing*, Springer US, Vol. 74, No. 7, pp. 3039-3070, 2018. <https://doi.org/10.1007/s11227-018-2355-0>
7. Vinay Kumar, Lalit Kumar Singh, Pooja Singh, Karam Veer Singh, **Ashish Kumar Maurya**, and Anil Kumar Tripathi, "Parameter Estimation for Quantitative Dependability Analysis of Safety-Critical Control Systems of NPP," *IEEE Transactions on Nuclear Science*, Vol. 65, No. 5, pp. 1080-1090, 2018. <https://doi.org/10.1109/TNS.2018.2827106>
8. Dharmendra Prasad Mahato, Ravi Shankar Singh, Anil Kumar Tripathi and **Ashish Kumar Maurya**, "On scheduling transactions in a grid processing system considering load through Ant Colony Optimization," *Applied Soft Computing*, Elsevier Netherland, Vol. 61, pp. 875-891, December 2017. <https://doi.org/10.1016/j.asoc.2017.08.047>

➤ Research Papers in International Conferences: 16

1. **Ashish Kumar Maurya**, "Resource and Task Clustering based Scheduling Algorithm for Workflow Applications in Cloud Computing Environment," *In the Proceedings of the 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC)*, pp. 566-570, JUIT, Solan, H.P., India, November 06-08, 2020. [ISBN: 978-1-7281-7132-6]
2. Dipty Tripathi, **Ashish Kumar Maurya**, Amrita Chaturvedi, and Anil Kumar Tripathi, "A Study of Security Modeling Techniques for Smart Systems," *In the Proceedings of the International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)*, Faridabad, Haryana, India, February 14-16, 2019. [ISBN: 978-1-7281-0211-5]
3. **Ashish Kumar Maurya**, Dipty Tripathi, Amit Biswas and Anil Kumar Tripathi, "Design Issues in Distributed Software," *In the Proceedings of the Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC)*, pp. 563-567, JUIT, Solan, H.P., India, December 20-22, 2018. [ISBN: 978-1-5386-6026-3]
4. **Ashish Kumar Maurya**, and Anil Kumar Tripathi, "An Energy Aware Edge Priority-based Scheduling Algorithm for Multiprocessor Environments," *In Proceedings of the 24th International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'18)*, pp. 42-46, Las Vegas, Nevada, **USA**, July 30 - August 2, 2018. [ERA B ranked] [ISBN: 1-60132-487-1]
5. **Ashish Kumar Maurya**, and Anil Kumar Tripathi. "Deadline-Constrained Algorithms for Scheduling of Bag-of-Tasks and Workflows in Cloud Computing Environments." *In Proceedings of the Second International Conference on High Performance Compilation, Computing and Communications 2018, (HP3C-2018)*, pp. 6-10, **Hong Kong**, March 15-17, 2018. [ISBN: 978-1-4503-6337-2]
6. **Ashish Kumar Maurya**, and Anil Kumar Tripathi. "Performance Comparison of HEFT, Lookahead, CEFT and PEFT Scheduling Algorithms for Heterogeneous Computing Systems." *In Proceedings of the Seventh International Conference on Computer and Communication Technology 2017, (ICCT'17)*, pp. 128-132, Allahabad, India, November 24-26, 2017. [ISBN: 978-1-4503-5324-3]
7. Satya Prakash, **Ashish Kumar Maurya**, and Anil Kumar Tripathi, "Energy Efficient Scheduling of Independent Tasks on Multicore Processors with Software Controlled Dynamic Voltage Scaling", *In the Proceedings of the 23rd International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'17)*, pp. 179-183, Las Vegas, Nevada, **USA**, July 17-20, 2017. [ERA B ranked] [ISBN No.: 1-60132-466-9]
8. Dharmendra Prasad Mahato, **Ashish Kumar Maurya**, Anil Kumar Tripathi, and Ravi Shankar Singh, "Dynamic and Adaptive Load Balancing in Transaction Oriented Grid Service," *In the Proceedings of the 2nd International Conference on Green High Performance Computing (ICGHPC 2016)*, Tamilnadu, India, pp. 1-5, IEEE, February 26-27, 2016. [ISBN: 978-1-4673-6615-1]
9. **Ashish K. Maurya**, Dinesh Singh, Ajeet Kumar, and Ritesh Maurya, "Random waypoint mobility model based performance estimation of On-Demand routing protocols in MANET for CBR applications," *In International Conference on Computing for Sustainable Global Development (INDIACom)*, BVICAM, New Delhi, India, pp. 835-839, IEEE, March 5-7, 2014. [ISBN: 978-93-80544-12-0]
10. Ritesh Maurya, Surya Kant Singh, **Ashish K. Maurya**, and Ajeet Kumar, "GLCM and Multi Class Support vector machine based automated skin cancer classification," *In International Conference on Computing for Sustainable Global Development (INDIACom)*, BVICAM, New Delhi, India, pp. 444-447. IEEE, March 5-7, 2014. [ISBN: 978-93-80544-12-0]

11. Priyanshu and **Ashish K. Maurya**, "Impact of node density on the performance of GSR & TORA routing protocols," *In the Proceedings of the 5th International Conference on Computer and Communication Technology (ICCCCT 2014)*, MNNIT Allahabad, India, pp. 251-255, IEEE, September 26-28, 2014. [ISBN: 978-1-4799-6758-2]
12. Mohd. Shoaib, and **Ashish K. Maurya**, "Comparative Study of Different Web Mining Algorithms to Discover Knowledge on the Web," *In Proceedings of Elsevier Second International Conference on Emerging Research in Computing, Information, Communication and Application (ERCICA-2014)*, vol. 3, Bangalore, India, pp. 648-654, Elsevier, August 1-2, 2014. [ISBN: 978-9-3510-7263-8]
13. Mohd. Shoaib, and **Ashish K. Maurya**, "URL ordering based performance evaluation of Web crawler," *In International Conference on Advances in Engineering and Technology Research (ICAETR)*, Unnao, India, pp.1-7, IEEE, August 1-2, 2014. [ISBN: 978-1-4799-6393-5]
14. Avadh Kishor Singh, Ajeet Kumar, and **Ashish K. Maurya**, "Association rule mining for web usage data to improve websites," *In International Conference on Advances in Engineering and Technology Research (ICAETR)*, Unnao, India, pp. 1-6, IEEE, August 1-2, 2014. [ISBN: 978-1-4799-6393-5]
15. Avadh Kishor Singh, Ajeet Kumar, and **Ashish K. Maurya**, "An empirical analysis and comparison of Apriori and FP-growth algorithm for frequent pattern mining," *In International Conference on Advanced Communication Control and Computing Technologies (ICACCCT)*, Tamilnadu, India, pp. 1599-1602, IEEE, May 8-10, 2014. [ISBN: 978-1-4799-3914-5]
16. Dinesh Singh, **Ashish K. Maurya**, and Anil K. Sarje, "Comparative performance analysis of LANMAR, LAR1, DYMO and ZRP routing protocols in MANET using Random Waypoint Mobility Model," *In 3rd International Conference on Electronics Computer Technology (ICECT)*, Kanyakumari, India, Vol. 6, pp. 62-66, IEEE, April 8-10, 2011. [ISBN: 978-1-4244-8679-3]

➤ **Book Chapters**

1. Vibhav Prakash Singh, **Ashish Kumar Maurya**, "Role of Machine Learning and Texture Features for the Diagnosis of Laryngeal Cancer." In: Mohanty et al. (eds.) *Machine Learning for Healthcare Applications*. Scrivener Publishing, Chapter 23, pp. 353-368, 2021. [Accepted]
2. Dinesh Kumar, **Ashish Kumar Maurya**, Gaurav Baranwal, "IoT services in healthcare industry with fog/edge and cloud computing." In: Singh et al. (eds.) *IoT-Based Data Analytics for the Healthcare Industry: Techniques and Applications*. Academic Press, Chapter 6, pp. 81-103, 2020. [ISBN: 9780128214763]