

List of Papers

In Journals

National

1. Sanjay Kumar, A. S. Zadgaonkar and S. Tiwari, "A better scheme of Interconnection in Supercomputers", Journal of Ravishankar University, Raipur, vol.13, no. B(Science) (0970-5910), 2000, pp 20-29.
2. Sanjay Kumar, A. S. Zadgaonkar and S. Tiwari, "Performance of a buffered Quad Tree Network", Journal of Ravishankar University, Raipur, vol.17, no. B(Science) (0970-5910), 2004, pp 19-31.
3. Punita Kartikeyan, Sanjay Kumar, V.K. Patle, "Survey of Routing Protocols in Vehicular Ad Hoc Network", Research Journal of Engineering and Technology (0976-2973), vol. 2, number 2, April-June 2011, pp 72-76.
4. Chandana Patnaik, Sanjay Kumar, V.K. Patle, "Modulation Techniques for WiMAX: A perspective", Research Journal of Science and Technology (0975-4393), vol. 3, number 2, April-June 2011, pp 95-98
5. Varsha Thakur and Sanjay Kumar,"A comparison of select Load Balancing Algorithm in cloud computing", The IUP journal of Computer Science (0973-9904), vol. 9, No. 1, January 2015, pp 7-13.
6. Varsha Thakur and Sanjay Kumar,"Load Balancing Algorithm : An Analytical Study", The IUP journal of Computer Science (0973-9904), vol. , No. , April, 2014, pp 25-34 .
7. Sunita Kushwaha and Sanjay Kumar,"An Investigation of List Heuristic Scheduling Algorithms for Multiprocessor System" The IUP journal of Computer Science (0973-9904), vol. XI, No. 2, April, 2017, pp 29-42 .

International

1. Bhavana Narain, V.K. Patle, Sanjay Kumar,"Performance Evaluation of Routing Protocol and Congestion Control Protocol in Wireless Multi-hop Networks", International Journal of Computer Applications, (0975-8887) Volume 11, No. 1, December 2010, pp 40-42. Impact Factor .814
2. Sunita Kushwaha, Bhavna Narain, Deepti Verma, Sanjay Kumar, "Effect of scenario environment on the performance of MANETs Routing Protocol : AODV", International Journal of Computer Engineering and Technology (IJCET) (0976-6367), volume 2, number 1, December January (2011), pp 33-38. Impact Factor 1.0425

3. Swarmina Shrivastava, Sanjay Kumar, Vinod Patle, "Congestion control protocols in unicast, multicast and broadcast applications: a survey", International Journal of Computer Engineering (0975-6116), vol. 3, number 1, January-June, 2011, pp 1-6. Impact factor 1.0425
4. Bhavana Narain, Sanjay Kumar, Prem Chandrakar, Vinod Patle, "Study for data mining techniques in classification of agricultural land soils", International Journal of Advanced Research in Computer Engineering (0974-4329)", vol. 5, number 1, January-June, 2011, pp 35-37. Impact Factor .7315
5. Bhavana Narain, Anuradha Sharma, Sanjay Kumar, Vinod Patle, "Energy Efficient MAC Protocols for Wireless Sensor Networks : A Survey", International Journal of Computer Science & Engineering Survey (0976-2760), Vol. 2, number 3, August 2011, pp 121-131. Impact factor .564
6. Prem Chandrakar, Sanjay Kumar, Vinod Patle, "Applying Classification Techniques in Data Mining in Agriculture Land Soil", International Journal of Computer Engineering (0975-6116), July-December 2011, Volume 3, Number 2, pp 89-95. Impact factor 1.0425
7. Bhavana Narain, B. Shameem, Sanjay Kumar, "Performance Evaluation of Security aware AODV Protocol", International Journal of Computer Science and Knowledge Engineering (0973-6735), vol 6, no. 1, January-June 2012, pp 45-47. Impact Factor: 2.984
8. Sanjay Kumar, Bhavana Narain, Saurabh Kumar, "Monitoring techniques of Elephant Corridors, Chhattisgarh, India : A Perspective", International Journal of Applied Computing (0974-6277), vol. 5, No. 1, January-June 2012, pp 1-3. Impact Factor .690
9. Bharti Sen and Sanjay Kumar, "An Automatic Parallelization in Multicore Computer using OMP", International Journal of Computer Science Engineering and Technology (On Line Peer Reviewed Journal) ISSN 2231-0711, vol2, issue 10, October 2012, pp 1465-1467. Impact Factor 1.0425
10. Vanya Rajput, Sanjay Kumar, V.K. Patle, "Performance Analysis of UMA and NUMA models", International Journal of Computer Science Engineering and Technology (On Line Peer Reviewed Journal) ISSN 2231-0711, vol2, issue 10, October 2012, pp 1457-1458. Impact factor 1.0425.
11. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, "Entropy as a Similarity Metric for Eye images", International Journal of Graphics and Image Processing", vol 3, issue 1, February, 2013, pp 16-19. ISSN 2249-5452. Impact Factor 1.96.

12. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, "Histogram Equalization Techniques and its applications in eye", International Journal of Scientific and Engineering Research, vol 4, issue 4, April 2013, pp 1176-1179. ISSN 2229-5518, Impact Factor 1.4
13. Bhavana Narain, Sanjay Kumar, "Impact of Algorithms on Green Computing", International Journal of Computer Applications (0975-8887) pp 111-113. From Proc. of International Conference on Green Computing and Technology at SIES Graduate School of Technology, Mumbai on 5-6 September, 2013 (Presented). Paper selected under Editor's Choice.
14. Rinki Kaur, Vinod Patle, Sanjay Kumar, "A Parallel algorithm to process harmonic progression series using Open MP", International Journal of Engineering Research & Technology (2278-0181), vol 3, issue 2, February, 2014, pp Impact Factor 1.76
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19. Yajnaseni Dash, Sanjay Kumar, V.K. Patle, "A Survey on Serial and Parallel Optimisation Techniques applicable for Matrix Multiplication Algorithm" in American Journal of Computer Science and Engineering Survey (ISSN : 2349-7238), AJCSES[3][1][2015]071-077.
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- Engineering”, (ISSN online 2278-1021, print 2319-5940) volume 4, issue 1, January 2015 pp 57-61.
21. Megha Jain, V.K. Patle, Sanjay Kumar, “Bitonic Sorting Algorithm: A Review”, International Journal of Computer Application”, (ISSN 0975-8887) volume 113, No. 13, March 2015, pp 40-43.
 22. Purushottam Kewat, Bhavna Narain and Sanjay Kumar, “Green Computing and Environment”, International Journal of Science and Research”, (ISSN 2319-7064) pp 242-246 online. Also presented in National Conference on Knowledge, innovation in Technology and Engineering (NCKITE) held at Kruti Institute of Technology and Engineering, Raipur on 10-11 April, 2015.
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 24. Yajnaseni Dash, Sanjay Kumar, V.K. Patle, ”Evaluation of performance on Open MP Parallel Platform based on Problem Size” I.J. Modern Education and Computer Science(print-2075-0161, on line-2075-017X), 2016,6, pp 35-40. Published online June 2016 in <http://www.mecs-press.org>.
 25. Manisha Israni, V.K. Patle, Sanjay Kumar, ”A Survey on performance of non realistic mobility models with different routing protocols on MANET”, International Journal of Computer Applications(0975-8887), volume 127, no.- 3, October 2015, pp 38-44.
 26. Varsha Thakur and Sanjay Kumar, ”Impact of Parallelism on Dual core”, International Journal of Computer Applications (0975-8887), volume 147, no.-13, August 2016, pp 10-12.
 27. Varsha Thakur and Sanjay Kumar, ”An Analytical Study on effect of Parallelism on Multicore”, International Journal of Science, engineering and Technology Research (2278-7798), Volume 5, Issue 8, August 2016, pp2664-2666.
 28. Varsha Thakur and Sanjay Kumar, ”Perspective study and analysis of Parallel Architecture”, International Journal of Computer Applications(0975-8887), volume 148, no.-14, August 2016, pp 22-24.
 29. Varsha Thakur and Sanjay Kumar, ”Load Balancing Approaches: Recent Computing Trends” International Journal of Computer Applications(0975-8887), volume 131, no.-14, December 2015, pp 43-47.
 30. Varsha Thakur and Sanjay Kumar, ”Performance Analysis of Sorting Algorithms in Multicore Architecture”, International Journal of Science, engineering and

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31. V.K. Patle and Sanjay Kumar, "Evaluation of mobility model with MANET routing protocols", International Journal of Computer Applications(0975-8887), volume 152, no.-8, October 2016, pp 8-12.
 32. Renuka Patel and Sanjay Kumar, "Simulation and Investigation on Effect of Dependency in under pipelining", International Journal of Computer Applications(0975-8887), volume 152, no.-8, October 2016, pp 12-15.
 33. Sonu Agrawal, Sushil Kumar, Sanjay Kumar, "Genetic algorithm based corpus optimization technique for continuous user authentication", International Journal of Latest Trends in Engineering and Technology (2278-621X)", vol.-7, issue 5, November 2016, pp 189-196.
 34. Madhurima Pandey, Sonu Agrawal, Sanjay Kumar, "Image comparison based queue length measurement for real time signal controlling", International Journal of computer and Software engineering (2271-128X), vol.-6, issue 3, March 2016, pp 383-387.
 35. Sonu Agrawal, Sushil Kumar, Sanjay Kumar, "Modified PCA with Genetic algorithm for Age Invariant Face Recognition", International Journal of Advanced Research in Computer and Communication engineering (2278-1021,2319-5940), vol.-4, issue 10, October 2015, pp 56-61.
 36. Pallavi Singh, Durgesh Kumar Keshar, V.K. Patle, Sanjay Kumar, "A study of new horizon on emerging IoT technology", International journal of Engineering Research in Computer Science and Engineering (2394-2320), vol 5, issue 2, February 2018, pp 417-422.
 37. V.K. Patle and Sanjay Kumar, "Parameter Analysis of Wireless Sensor Networks on Various Non Realistic Mobility Models", i-managers's journal on Communication Engineering and Systems (2277-5102) volume 7, no. 1, November, 2018, pp 6-11.
 38. Renuka Patel and Sanjay Kumar, "A Study of Various Existing Techniques to deal with Pipeline Hazards", Research Journal of Engineering and Technology (ISSN 0976-2973(print), 2321-581X(Online), October-December, 2018 pp 304-306
 39. Durgesh Kumar Keshar, Sanjay Kumar, V.K. Patle, "A comparative Study of GPU Computing Techniques : A Review", International Journal of Computer Science and Engineering (E-ISSN 2347-2693), February, 2019, pp 178-181
 40. Avinash Dhole, Mohan Awasthy, Sanjay Kumar, "Q Learning Based Technique for Accelerated Computing on Multicore Processors" Indian Journal of Computer Science and Engineering (ISSN 0976-5166) vol. 8, No. 5, October-November 2017 pp 601-612
 41. Avinash Dhole, Mohan Awasthy, Sanjay Kumar, "Synchronous Q Learning Based Technique for Performance Improvement in Multi core Processors" International J. Technology (ISSN 2231-3907) vol. 8, issue 2, July-December 2018 pp 85-98

42. Gargi Pandey, Sanjay Kumar, Vinod Patle, "Comparative Study of NS2 and Opnet for AODV and DSR Protocols in MANET", International Journal of Engineering, Research & Technology (ISSN 2278-0181), vol 2, issue 7, July, 2013 pp 2392-2400.
43. Sonu Agrawal, Sushil Kumar, Sanjay Kumar & Ani Thomas, "A novel robust feature extraction with GSO-optimized extreme learning for age-invariant face recognition" The Imaging Science Journal (1368-2199), on line 1743-131X) Taylor & Francis Group, September 2019 vol. 67 no. 6, pp 319-329. [SCI-2019, Scopus, UGC] [2019 Impact Factor 1.023]
44. Sonu Agrawal, Sushil Kumar, Sanjay Kumar & Ani Thomas, "Swarm Optimization based Extreme Learning for Age Invariant Face Recognition", International Journal of Management, Technology and Engineering, Volume IX, Issue III, March 2019 (2249-7455) pp 833-844.

Conferences

(A) National

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2. Sanjay Kumar, A. S. Zadgaonkar and S. Tiwari, "Performance of a buffered Double Tree Network" in proceeding of National Conference on Communication held at IIT Kanpur (ISBN 81-7764-131-X) on 27-28 January 2001 (NCC-2001), pp 152-157.
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4. Sanjay Kumar, "Role of industry and information technology in technical education", proceeding of national Seminar on Total Quality Management in Engineering Education held at Raipur Institute of technology (Sponsored by UGC) on 9-10 December 2000, pp 117-121.
5. Sanjay Kumar, Dhiraj Kumar Shrivastaw and Pankaj Shrivastava, " Photovoltaic cell: An Alternative source of Solar Energy", proceeding of All India Seminar on Power Generation organised by Institution of Engineers, Chhatisgarh state centre at N.I.T., Raipur on 20-21 January, 2007, pp 41-44. (Presented)
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8. Sanjay Kumar, "Future Trends in IP Addressing", in the proceedings of National Seminar on Devices, circuits and Communication at BIT, Mesra on 6-7 November, 2008, pp 30-34.
9. Sanjay Kumar, "Unwanted Experimentation with Examination System in India", presented on 08th March, 2011 In the UGC national seminar on Examination Reforms organised by School of Studies in Psychology, Pt. Ravishankar Shukla University, Raipur on 07-09 March, 2011. (No Proceeding).
10. A. Hasan, V.K. Patle, Sanjay Kumar, "Energy Saving in Mobile Ad-hoc Networks" in UGC sponsored National Seminar on Enhancing Thinking in the Smart Way Internet Technologies " at Mata Gujri College, Jabalpur (M.P.) on 4-5 January, 2012, pp 127-130. (ISBN : 938112296-2).
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14. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, " A multi-view approach of image based transformation", All India Conference on Global Innovations in Computer Science & Engineering and Information Technology, AICON-2103, April 12th and 13th, 2013 at CSIT, Durg, ISBN Number 978-81-923288 1-2, pp 1.233-1.235.(Presented).
15. B. Shameem, Bhavana Narain, Sanjay Kumar, "Recent trends in Remote sensing Image Processing", A multi-view approach of image based transformation", All India Conference on Global Innovations in Computer Science & Engineering and Information Technology, April 12th and 13th, 2013 at CSIT, Durg, ISBN Number 978-81-923288 1-2, pp 1.245-1.247. (Presented).

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18. Kajal Sahu, Ramakant Prasad, Sanjay Kumar, V.K. Patle, "A study of odd-even Transposition Parallel Sorting Algorithm in MPI" presented by Sanjay Kumar in the National Conference on Challenges and Opportunities in Statistics and Informatics for Futuristic Humanosphere Especially in Agriculture (COSIFHA-2019) held at Acharya N.G. Ranga Agricultural University, S.V. Agricultural College, Tirupati during 29-31 January, 2019.

(B) *International*

1. Sanjay Kumar, "Mathematical Modelling and Simulation of a buffered Fault Tolerant Double Tree Network" in the proceeding of 15th International Conference on Advanced Computing and Communications ADCOM 2007 at IIT, Guwahati Published in IEEE Explore (ISBN 0-7695-3059-1) on 18-21 December, 2007, pp 422-431. (Presented)
2. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, "Eye Detection and Expression Recognition Techniques : A Perspective", Proc. of 2nd International Conference on Biomedical Engineering & Assistive Technologies at NIT Jalandhar on 6-7 December, 2012 (ISBN-13: 978-81-925454-1-7), pp 212-215. (Presented by B. Narain)
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4. Renuka Patel and Sanjay Kumar, "Effect of Problem Size on Parallelsim", Proc. of 2nd International Conference on Biomedical Engineering & Assistive Technologies at NIT Jalandhar on 6-7 December, 2012 (ISBN-13: 978-81-925454-1-7), pp 418-420. (Presented by Self)
5. Surendra Patel, Anil Sharma, G. Gupta, Sanjay Kumar, "High Performance Computing: Grid Computing and Cloud Computing for Green ICT", Proc. of

International Conference on Green Computing and Technology at SIES Graduate School of Technology, Mumbai on 5-6 September, 2013, (presented) pp 144-147. Published in International Journal of Computer Applications (0975–8887).

6. Toran Lal Sahu, Deepty Dubey, Sanjay Kumar, "Preservation of edges during denoising of OCR images using curvelet transform", 3rd IEEE sponsored International Conference on Computation of Power, Energy, Information and Communication held at Adhiparasakthi Engineering College, Melmaruvathur-603319, Tamil Nadu, India on 16th and 17th April, 2014 (presented) pp 1008-1013 (ISBN 978-4799-3826-1).
7. Shipra Pradhan, Sanjay Kumar, V.K Patle, "Effect of parallelization on conditional summation", Proc. of 3rd International Conference on Parallel, Distributed and Grid Computing, held at Jaypee University of Information Technology, Solan, Himachal Pradesh on 11th to 13th December, 2014, published in IEEE Explore (ISBN 978-1-4799-7682-9) pp 330-333. (Presented).
8. Nidhi Thakur, Sanjay Kumar, V.K Patle, "Comparison of Serial and Parallel Searching in Multicore Systems", Proc. of 3rd International Conference on Parallel, Distributed and Grid Computing, held at Jaypee University of Information Technology, Solan, Himachal Pradesh on 11th to 13th December, 2014, published in IEEE Explore (ISBN 978-1-4799-7682-9) pp 334-338. (Presented).
9. Sunita Kushwaha and Sanjay Kumar,"Analysis of List Scheduling Algorithms for parallel system", in the Proc. of High Performance Computing and Applications IHPCA-2014 held at C.V. Raman College of Engineering, Bhubaneswar from 22-24 December, 2014 (Presented). Published in IEEE explore ISBN 978-1-4799-5957-0 pp 1-6.
10. Yajnaseni Dash, Sanjay Kumar, V.K. Patle,"A Novel Data Mining Scheme for Smartphone Activity Recognition by Accelerometer Sensor", Proceeding of 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA 2015) of Fourth International Conference on Frontiers in Intelligent Computing: Theory and Applications held at NIT Durgapur from 16th to 18th December, 2015 (published by Springer) pp 131-140. (ISBN 978-81-322-2695-6) (Not presented)
11. Sanjay Kumar,"A New scheme to increase the address space of IPv4", Proceeding of International congress on Engineering and Information ICEAI-2016", held at International Convention Centre, Osaka, Japan on 10-12 May, 2016, pp 446-454. (Presented) (ISBN 978-986-88450-4-6)
12. Dhammpal Ramtate, Sanjay Kumar, V.K. Patle,"Route optimisation by Ant Colony Optimisation", presented in the 2nd International conference on Intelligent Computing, Communication & Convergence ICCC-2016 held at IIMT Bhubaneswar on 24-25 January, 2016, pp 48-55. The paper is published by Elsevier and is available on line in <http://www.sciencedirect.com/science/article/pii/S187705091631568X> , ISSN 1877-0509, volume 92, 2016

13. Renuka Patel and Sanjay Kumar, "Simulation and Comparison of Temporal Parallelism and Spatial Parallelism", presented in 4th International Conference on New Frontiers of Engineering, science, Management and Humanities held at IETE, Osmania University, Hyderabad on 3rd September, 2017. Paper is also published in UGC listed journal-International Journal of Computer & Mathematical Sciences (2347-8527) volume 6, issue 9, September 2017 pp 130-136
14. Varsha Thakur and Sanjay Kumar, "Simulation of Load Balancing in Parallel Architecture", presented by Varsha Thakur in the 7th IEEE International Conference on Communication Systems and Network Technologies at IIIT Nagpur on 11-13 November 2017. (ISBN 978-1-5386-1861-5, pp 113-118)
15. Varsha Thakur and Sanjay Kumar, "A Pragmatic study and Analysis of Load Balancing Techniques in Parallel Computing" presented by Sanjay Kumar in the 6th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA-2017) (ISBN 978-981-10-7562-9) held at KIIT Bhubaneswar on 14-15 October, 2017. Also published in the proceeding of Springer on pp 447-451.
16. Renuka Patel and Sanjay Kumar, "Visualizing Effect of dependency in Super Scalar Pipelining" presented by Sanjay Kumar in 4th International Conference on Recent Trends in Information Technology RAIT 2018 held at IIT Dhanbad during 15-17 March, 2018. ISBN 978-1-5386-3038-9, pp 716-720
17. Sanjay Kumar, "Monitoring CO₂ emission due to Electricity Consumption" presented in 2018 MTMI International Conference, organized by Modern Technology and Management Institute (MTMI) Inc., USA at hotel IBIS, Bangkok, Thailand during December 22-23, 2018. Published in Proceeding Review of Business and Technology Research (ISSN 9141-9406), vol 15, no. 3, 2018, pp 224-230
18. Renuka Patel and Sanjay Kumar, "Design of Super-Pipeline Architecture to visualize the effect of dependency", 8th International Conference on "Innovations in Electronics and Communication Engineering" (ICIECE 2019) organized by the Department of Electronics and Communication Engineering, Guru Nanak Institutions Technical Campus, Hyderabad, India, during August 2-3, 2019, Presented by Renuka Patel, Proceeding of Springer (ISSN 2367-3370, 2367-3389, ISBN 978-981-15-3171-2, 978-981-3172-9, <http://doi.org/10.1007/978-981-15-3172-9>) pp 747-755

Books Written

“Automatic Elephant Detection System” By Sanjay Kumar & Bhavana Narain. Book is available on amazon.com. Book details are as below:-

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Other Non Research Publications

Two articles in news papers. Three radio talks from All India Radio, Raipur :-

1. Sanjay Kumar, "Possibilities of small industries in Chhattisgarh", published in hindi daily news paper 'Nav-Bharat' on 11th August, 1994.
2. Sanjay Kumar, "Industrial vis-à-vis Technical Education Scenario : a wider perspective", published in English daily news paper 'M.P. Chronicle' on 08th September, 1996.
3. Sanjay Kumar, "Useful LASER rays", All India Radio, Raipur on 21st November, 1992.
4. Sanjay Kumar, "Super man : Robot", All India Radio, Raipur on 14th February, 1993.
5. Sanjay Kumar, "Computer Virus", All India Radio, Raipur on .