

Dr.R.Kalpana's List of Publications

Research Guidance : Awarded = 6 ; Pursuing = 6

BOOK CHAPTERS

1. N. Madhuram, R. Kalpana, "A Survey on Diagnosis of Hazardous Gas Emission Using AI Techniques", Source Title: Handbook of Research on Machine Learning-Enabled IoT for Smart Applications Across Industries, IGI Global Publishers, 2023.
2. Suganya, D., and Kalpana, R. (2023). "Automated Detection of Covid-19 Waves with Computerized Tomography Scan Using Deep Learning." In: Awasthi, S., Sanyal, G., Travieso-Gonzalez, C.M., Kumar Srivastava, P., Singh, D.K., Kant, R. (eds) Sustainable Computing: Transforming Industry 4.0 to Society 5.0. Springer, Cham. https://doi.org/10.1007/978-3-031-13577-4_3. (Springer publisher - Scopus Indexed)
3. Suganya, D., and R. Kalpana. (2024) "Identifying Error and Bias in Chest Radiographic Images for COVID Detection Using Deep Learning Algorithms." Computer Vision and AI-Integrated IoT Technologies in the Medical Ecosystem. CRC Press, 2024. ISBN.HBK: 9781003429609. <https://doi.org/10.1201/9781003429609>. (Taylor & Francis publisher – CRC press - Scopus Indexed)
4. Sowmiya.R., &Kalpana.R, "Survey or Review on the Deep Learning Techniques for Retinal Image Segmentation in Predicting/Diagnosing Diabetic Retinopathy". In AI-Enabled Multiple-Criteria Decision-Making Approaches for Healthcare Management, IGI Global, pp. 181-203, 2022.
5. Durgadevi M and Kalpana R, "A Comprehensive Survey of Data Mining Techniques inDisease Prediction" in Challenges and Applications of Data Analytics in SocialPerspectives, IGI global publishers, Pages: 27 – 53, 2021, DOI: 10.4018/978-1-7998-2566-1.ch002
6. Anandkumar, R., and R. Kalpana. "A Review on Chaos-Based Image Encryption Using Fractal Function." In Examining Fractal Image Processing and Analysis, pp. 23-37. IGI Global, 2020. (Scopus)
7. Srikanth Yadav and R. Kalpana. "A Survey on Network Intrusion Detection Using Deep Generative Networks for Cyber-Physical Systems." In Chapter 7 in Artificial Intelligence Paradigms for Smart Cyber-Physical Systems, IGI Global, November, 2020, DOI: 10.4018/978-1-7998-5101-1, ISBN13: 9781799851011 (Scopus)
8. Anandkumar, R., and R. Kalpana. "A Survey on Chaos Based Encryption Technique." In Enabling Technologies and Architectures for Next-Generation Networking Capabilities, pp. 147-165. IGI Global, 2019.
9. UmamageswariKumaresan and KalpanaRamanujam. Web Harvesting: Web Data Extraction Techniques for Deep Web Pages. published in book titled: Web Usage Mining Techniques and Applications Across Industries Also published in: The Dark Web: Breakthroughs in Research and Practice , Ch. 10, page no. 199 – 226, 2018
10. M.Priya and Dr.R.Kalpana, "Keyword Search Mechanisms in Geo-Spatial Databases " approved to publish " Emerging Trends in Open Source Geographic Information System", IGI Global Publishers, 2017

INTERNATIONAL JOURNALS

11. Sowmiya.R., Kalpana.R, “AV EffiCapsNet based Deep Neural Network model for automated detection of Hypertensive Retinopathy in Fundus image”, Baghdad science Journal. (Accepted for publication)
12. Suganya.D.,Kalpana.R.,Prognosticating various acute covid lung disorders from COVID 19 patient using chest CT Images”, Engineering Applications of Artificial Intelligence, 2023,ElsevierPublishers,<https://doi.org/10.1016/j.engappai.2023.105820>(<https://www.sciencedirect.com/science/article/pii/S0952197623000040>) (SCI-E/Scopus Indexed) (IF: 7.802)
13. Suganya. D., & Kalpana. R., (2023) “ Prognosticating various acute covid lung disorders from COVID-19 patient using chest CT Images ”, Engineering Applications of Artificial Intelligence, Volume 119, 2023, 105820, ISSN 0952-1976, <https://doi.org/10.1016/j.engappai.2023.105820>. (<https://www.sciencedirect.com/science/article/pii/S0952197623000040>) (Q1 - Elsevier-SCI-E/ Scopus Indexed)
14. Suganya. D., & Kalpana. R., “ Prognosticating Pulmonary Pathosis for Covid negative and Post-Acute Covid patients using Chest CT scan images ”, Engineering Applications of Artificial Intelligence. (Accepted for Publication). (Q1 - Elsevier-SCI-E/ Scopus Indexed)
15. Suganya. D., & Kalpana. R., “ Prognosticate Post-Acute pulmonary parenchymal of COVID negative patients using Improved Few-shot learning model ”, Journal of Supercomputing. (Under Revision). (Q2 - SCI-E/ Scopus Indexed)
16. UmamageswariKumaresan and KalpanaRamanujam. “A Framework for Automated Scraping of Structured Data Records from Deep Web using Semantic Labeling: Semantic Scraper.” International Journal of Information Retrieval Research (IJIRR), IGI Publishers, 2022 (IF: 0.03)
17. Srikanth Yadav. M and Kalpana R. (2022). Deep Generative Learning Approaches for Network Intrusion Detection Systems. Journal of Optoelectronics Laser, 41(5), 894–900. - (SCOPUS)(IF: 0.154)
18. Srikanth Yadav. M and Kalpana R. (2022).Recurrent Nonsymmetric Deep Auto Encoder Approach for Network Intrusion Detection System, Journal: Measurement: Sensors Elsevier - (SCIE/SCOPUS) (IF: 1.08)
19. Srikanth Yadav. M and Kalpana R. (2022).Comparative Review of Deep Learning Approaches for Network Intrusion Detection. Revue d'IntelligenceArtificielle (SCOPUS)(IF: 0.235)
20. R. Anandkumar and R. Kalpana, “A Fibonacci p-code traversing and unified chaotic map-based image encryption algorithm”, Journal of Ambient Intelligence and Humanized Computing, Springer nature, Jan 2022 (IF : 7.104)
21. Anandkumar, R., and R. Kalpana. "Designing a fast image encryption scheme using fractal function and 3D Henon Map." *Journal of Information Security and Applications* 49 (2019): 102390. Elsevier(IF: 4.96)

22. Anandkumar, R., and R. Kalpana. "Secure Medical Image Transmission using Arnold Cat Map-based Image Encryption with Radix Trie (ACM-RT) model." *JASC: Journal of Applied Science and Computations*. ISSN NO: 1076-5131, pp.77-90, Dec 2019
23. Kalaivanan.S, Kalpana.R, "A Hybrid Weed Optimized Coverage Path Planning Technique for Autonomous Harvesting in Cashew Orchards" *Information Processing in Agriculture*, Elsevier publications, March 2020 (Scopus) (IF:1.008)
24. Durgadevi. M and Kalpana R, "A Cooperative GA-SM approach for Prediction of Diabetes Mellitus based on Classification Rule Discovery", *e Government Applications for Smart Cities, Inderscience, February 2020 (scopus)*
25. Priya, M., and Kalpana, R., "Improving the Performance of Location Based Spatial Textual Query Processing using Distributed Strip Index", *International Journal of Spatial Information Research*, Springer Publisher, doi.org/10.1007/s41324-019-00256-2, ISSN :2366-3286,02 March 2019(IF : 2.4)
26. Kalaivanan.S, Kalpana.R, "A Survey on Coverage Path Planning Algorithms for Autonomous Robots in Agriculture", *International Journal of Computer Sciences and Engineering*, Vol.7, Issue.3, pp.869-881, 2019
27. Kalaivanan.S, Kalpana.R, "A Mahalanobis distance based Partitioned Path Planning Approach for Performing Coverage Path Planning under Cashew Trees", *International Journal of Modern Electronics and Communication Engineering*, Vol.7, Issue 2, pp. 71-74, April 2019
28. Priya.M. and Kalpana.R. Genetic Algorithm based Rule Generation for Approximate Keyword Search. *International Journal of Advanced Intelligence Paradigms, Inderscience Publishers, 2019.* (IF : 1.18)
29. Umamageswari Baskaran and KalpanaRamanujam. SEA2: Semantic Extractor, Aligner and Annotator - A Framework for Automatic Deep Web Data Extraction, Alignment and Annotation based on Semantics. *International Journal of Advanced Intelligence Paradigms, Inderscience Publishers., 2019.* (IF : 1.18)
30. Durgadevi M and Kalpana R, "An efficient Diabetes Prediction Model using Correlation Based Feature Selection with Genetic Algorithm for Data Classification", *Journal of Applied Sciences and Computations*, May 2018
31. Umamageswari Baskaran and KalpanaRamanujam. Automated Scraping of Structured Data Records from Health Discussion Forums using Semantic Analysis. *Informatics in Medicine Unlocked by Elsevier* 10, 149 - 158 (2018). (Scopus Indexed) (IF : 0.794)
32. Umamageswari Baskaran and KalpanaRamanujam. AUTOMATIC LABELING OF HIDDEN WEB DATA USING MULTI – HEURISTICS ANNOTATOR. *Future Computing and Informatics Journal, Elsevier Publishers*, vol. 3, no. 2, pp. 417-423, Dec 2018. (Scopus Indexed) (IF : 0.974)
33. Priya.M. and Kalpana.R. Distributed processing of Location based Spatial Query through Vantage Point Transformation. *Future Computing and Informatics Journal, Elsevier Publishers*, vol. 3, no. 2, Dec 2018. (IF : 0.974)

34. M.Priya and Dr.R.Kalpana. Log Posterior Approach in Learning Rules generated using N-Gram based Edit distance for Keyword, *Journal of Intelligent Systems(JISYS)*,(2017). (IF :3.0)
35. M.Priya and Dr.R.Kalpana. Approximate Pattern matching with Rule based Aho-Corasick index. *International Journal of Current Engineering And Scientific Research (IJCESR)*, 4, 11, (2017).
36. Umamageswari Kumaresan and KalpanaRamanujam. Web Data Extraction from Scientific Publishers' website using Heuristic Algorithm, *Journal of Intelligent Systems and Applications (IJISA)*, Mecs Publisher, 2017 (IF : 0.743)
37. M. Priya, Dr.R. Kalpana and K.Gokulakrishnan. A Survey on Various Techniques Used for Processing Spatial Queries. *International Journal of Applied Engineering Research* 11 (2016). (IF: 1.3)
38. R. Kalpana, K. Saruladha, J. Jayabharathy. "Studying the performance of qos specific web service recommendation system using virtual regions. *Journal of Web Engineering* 15, 397-411, 2016.(IF:0.74)
39. Thenmozhi A, V. Vijay, R. Kalpana, Naveen Kumar S. Improving Scalability and Security in Service Oriented VANET Using Data Scheduling and Hash Function. *International Journal of Applied Engineering Research* 11,(2016).
40. Dr. R. Kalpana, Vijay V, Thenmozhi A, " Framework for Adaptive Traffic Signal Control with BackBone Routing in VANET", *Discovery – The International Journal*, 46(211), 26-32, Oct 2015
41. R. Kalpana, Vijay V, Thenmozhi A, "Survey on the protocols of Vehicular Adhoc Networks", *International Journal - Advances in Natural and Applied Sciences*, pp. 446-450, Vol. 9(6) Special issue on Intelligent Computing 2015.
42. R. Kalpana and K.Lalithambigai, "Secure Guaranteed Rate Scheduling of Streams using Traitor Tracing Technique", *International Journal of Innovative Research in Computer and Communication Engineering*, Vol. 2, Issue 3, March 2014, pp. 3911-3923.
43. R. Kalpana and Kumar Navneet, "A Genetic Approach for Routing Optimization in Wireless Mesh Networks", *International Journal of Advanced Computer Technology*, Vol. 3, No. 2, April 2014, pp. 50-59.
44. R. Kalpana and S. Keerthika, "An Efficient Non-Preemptive Algorithm For Soft Real-Time Systems Using Domain Cluster-Group Edf", *International Journal of Computer Applications*, Vol. 93, No. 20, May 2014, pp. 1-8.R. (IF : 0.381)
45. Kalpana and P. Thambidurai, "A Speedup Technique for Dynamic graphs using Partitioning Strategy and Multithreaded Approach", *Journal of King Saud University - Computer and Information Sciences, Elsevier Publishers*, 26, 1, January 2014, pp. 111-119. (IF : 9.0)

INTERNATIONAL CONFERENCES

46. D Suganya, R Kalpana. "Automated COVID-19 diagnosis using Deep Multiple Instance Learning with CycleGAN", 2022 International Conference on Smart Technologies and

- Systems for Next Generation Computing (ICSTSN), 2022. pp. 1-6, doi: 10.1109/ICSTSN53084.2022.9761334. (Scopus Indexed)
47. Suganya, and D., Kalpana, R. (2023). “ Prognosticating COVID-19 Pneumonia Versus Common Pneumonia for Pediatrics Using Chest Radiographic Images ”. International Conference on Intelligent Computing Systems and Applications (ICICSA 2023). Springer Nature, Singapore. https://doi.org/10.1007/978-981-97-5412-0_24. (Springer LNNS - Scopus Indexed).
 48. D. Suganya and R. Kalpana, (2022). “ Automated COVID-19 diagnosis using Deep Multiple Instance Learning with CycleGAN ”, 2022 International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN), 2022, pp. 1-6, doi: 10.1109/ICSTSN53084.2022.9761334. (Scopus Indexed)
 49. Suganya, and D., Kalpana, R. (2023). “ MetaMis: A Study of Identifying Missed Labels or Mislabeleds of Chest Radiographic Images Using Meta Learning ”. 5th International Conference on Deep Learning, Artificial Intelligence and Robotics. (ICDLAIR 2023). Cham: Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-60935-0_34. (Springer LNCS - Scopus Indexed)
 50. Sowmiya.R., & Kalpana. R, “Detection of Diabetic Retinopathy using Preprocessed Fundus Image”, 2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, pp. 01-07 ,2022, doi:10.1109/ICAISS55157.2022.10011046. (IEEE Conference -scopus indexed)
 51. Sowmiya.R., & Kalpana. R, “Detection of Diabetic Retinopathy by Segmentation using U-Net with Hyper-Parameter Tuning”, Second International Conference on Smart Technologies & Systems for Next Generation Computing (ICSTSN 2023),IEEE, 2023, doi: 10.1109/ICSTSN57873.2023.10151473. (IEEE Conference-scopus indexed)
 52. Sowmiya.R., & Kalpana. R, “Artificial Intelligence in Ophthalmology: Artery-Vein Ratio as a Biomarker for Hypertensive Retinopathy Detection”, 2nd International Conference on Power Engineering and Intelligent Systems (PEIS 2024), Springer, 2024.
 53. Srikanth Yadav and R. Kalpana. “Effective Dimensionality Reduction Approaches for Deep Learning Based Network Intrusion Detection System”, 2nd Springer International Conference on Data Intelligence and Cognitive Informatics (ICDICI 2021), July 2021
 54. Srikanth Yadav and R. Kalpana. “Data Preprocessing for Intrusion Detection System Using Encoding and Normalization Approaches”, in 2019 11th International Conference on Advanced Computing (ICoAC), IEEE, Dec. 2019.DOI: 10.1109/ICoAC48765.2019.246851 (Scopus)
 55. Anandkumar, R., and R. Kalpana. "Analyzing of Chaos based Encryption with Lorenz and Henon Map." in *2018 2nd International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC)*, pp. 204-208. IEEE, 2018.(Scopus)
 56. Anandkumar, R., and R. Kalpana. "Chaos based Image Encryption with 3D HenonMapping System." in *2019 Third International Conference on Inventive Systems and Control (ICISC 2019)*, pp. 380-383. IEEE, Dec 2019.

57. Anandkumar, R., and R. Kalpana. "Image Encryption using Unified chaotic map and Fibonacci p - code Traversing" in 2019 *International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT-2019)*, pp. 204-208. IEEE, July 2019.
58. Durgadevi M and Kalpana R, "A Hybrid Algorithm using Ant Colony Optimization and Genetic Algorithm for Feature Selection and Classification" *IEEE (3rd International Conference on Intelligent Computing and Control Systems, ICICCS)*, 2019.
59. Kalaivanan.S and Kalpana.R, "Improving Quality of Fruits Picked in Orchards Using Mahalanobis Distance Based Model", *International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS 2018*, Springer 23 - 25 February, 2018. Published in : *Emerging Technologies in Data Mining and Information Security, Advances in Intelligent Systems and Computing*, Springer Publications. (scopus)
60. Anandkumar.R and Kalpana.R, "Analyzing of Chaos based Encryption with Lorenz and Henon Map" *Proceedings of the Second International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2018)*, pp. 205-211, SCAD Institute of Technology, Coimbatore
61. UmamageswariKumaresan and KalpanaRamanujam, "Design of Automated Data Extraction System for Medical Web Forums using Semantic Analysis", *9th IEEE International Conference on Advanced Computing (ICoAC-2017)*, 14 – 16 December 2017.
62. M.Priya, Dr.R.Kalpana and T.Supriya, "Hybrid Optimization using N Gram Based Edit Distance ", presented in *Proceedings of the 6th IEEE International Conference on Communication and Signal Processing (ICCSP'17)*, Vol. II, pp. 130-134.(April 2017)
63. M.Priya and Dr.R.Kalpana, "Distributed and Parallel Processing of Location based spatial query with Approximate Transformation," *9th IEEE International Conference on Advanced Computing* ,Organized by Madras Institute of Technology, Anna University.(2017)
64. CAUVERI A and R. Kalpana, "Dynamic Fault Diagnosis Framework for Virtual Machine Rolling Upgrade Operation in Google Cloud Platform", in the *Proceedings of 2017 IEEE International Conference on Innovations in information Embedded and Communication Systems (ICIIECS)*, KARPAGAM COLLEGE OF ENGINEERING, Coimbatore, India.
65. Kalaivanan. S and R. Kalpana, "Coverage in Agricultural Farmlands: A Ubiquitous Approach for Smart Farming", in the *proceedings of IEEE International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017)* 1-2 August 2017, SRK Engineering College, Chennai, India
66. Kalaivanan. S and R. Kalpana, "Coverage path planning for an autonomous robot specific to agricultural operations ", in the *proceedings of IEEE International Conference on Intelligent Computing and Control (I2C2)* 23 - 24 June 2017, at KARPAGAM COLLEGE OF ENGINEERING, Coimbatore, India
67. M. Durgadevi and R. Kalpana, "Medical distress prediction based on Classification Rule Discovery using ant-miner algorithm," *2017 11th IEEE International Conference on Intelligent Systems and Control (ISCO)*, Coimbatore, 2017, pp. 88-92.

68. M. Durgadevi and R. Kalpana, "Performance Analysis of Classification Approaches for the Prediction of Type II Diabetes", 9th IEEE International Conference on Advanced Computing (ICoAC-2017), 14 – 16 December 2017.
69. S.Kalaivanan, R. Kalpana, "Non Uniform Area Coverage (NUAC) for an agricultural robot based on grid decomposition", in proceedings of International Conference on Information and Analytics (ICIA'16) : ACM, 25 - 26 August, 2016, Pondicherry Engineering College, India
70. UmamageswariKumaresan and KalpanaRamanujam," A Framework for Extraction of Journal Information from Scientific Publishers Web Site", Proceedings of the 10 International Conference on Intelligent Systems and Control (ISCO'16), Vol. II, pp. 734-738, January 2016
71. UmamageswariKumaresan and KalpanaRamanujam, "Web Data Extraction from Retailers' Site using Semantic Density and Case Based Reasoning", in the Proceedings of the International Conference on Informatics and Analytics (ICIA'16)" organized by Pondicherry Engineering College and published in ACM Digital Library. DOI: [10.1145/2980258.2980265](https://doi.org/10.1145/2980258.2980265).
72. M.Priya and Dr.R.Kalpana, "Learning Transformation Rule in Heterogeneous Environment using Log based Posterior Model", published in Proceedings of the 10 IEEE International Conference on Intelligent Systems and Control (ISCO'16), Vol. II, pp. 130-134(January 2016).
73. V.Vijay and Dr.R.Kalpana, , "Adaptive traffic signal control using backbone routing in VANET", in the Proceedings of International Conference on Instrumentation Systems, Measurement and Automation (CISMA-2016), Pondicherry Engineering College, Puducherry, India
74. Dr. R. Kalpana, Vijay V, Thenmozhi A, " Framework for Adaptive Traffic Signal Control with BackBone Routing in VANET", Discovery – The International Journal, 46(211), 26-32, Oct 2015
75. R. Kalpana, Vijay V, Thenmozhi A, "Survey on the protocols of Vehicular Adhoc Networks", International Journal - Advances in Natural and Applied Sciences, pp. 446-450, Vol. 9(6) Special issue on Intelligent Computing 2015.
76. R. Kalpana and S. Keerthika, "An Efficient Non-Preemptive Algorithm For Soft Real-Time Systems Using Domain Cluster–Group Edf", International Journal of Computer Applications, pp. 1-8, Vol. 93, Issue. 20, May 2014.
77. R. Kalpana and Kumar Navneet, "A Genetic Approach for Routing Optimization in Wireless Mesh Networks", International Journal of Advanced Computer Technology, pp. 50-59, Vol. 3, Issue. 2, April 2014.
78. P.Segar, and R.Kalpana, "Personalized Quality of Service – Aware Web Service using Road Knowledge and Route Choice", International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE), Vol, 8 Issue 1, pp.157-162,APRIL 2014.
79. R. Kalpana and K.Lalithambigai, "Secure Guaranteed Rate Scheduling of Streams using Traitor Tracing Technique", International Journal of Innovative Research in Computer and Communication Engineering, pp. 3911-3923, Vol. 2, Issue 3, March 2014.
80. R. Kalpana and P. Thambidurai, "A Speedup Technique for Dynamic graphs using Partitioning Strategy and Multithreaded Approach", *Journal of King Saud University - Computer and Information Sciences, Elsevier Publishers*, pp. 111-119, Vol. 26, Issue 1, January 2014.

81. R. Kalpana and P. Thambidurai, "Re-optimizing the Performance of Shortest Path Queries Using Parallelised Combining Speedup Technique based on Bidirectional Arc flags and Multilevel Approach", *WSEAS Transactions on Computers*, pp. 204-215, Vol.11, Issue 7, July 2012.
82. R. Kalpana and P. Thambidurai, "Performance Analysis of Parallel Speedup Techniques for Shortest Path Queries in Networks of Random and Planar Types", *International journal of Computer Applications*, pp. 29-35, Vol. 47, Issue 24, June 2012.
83. R. Kalpana and P. Thambidurai, "Combining Speedup techniques based on Landmarks and Containers with parallelised preprocessing in Random graphs and Planar graphs", *International Journal of Computer Science & Information Technology*, 3, 1, February 2011, pp. 152-171.
84. R. Kalpana and P. Thambidurai, "Combining Speedup techniques based on Landmarks and Containers", *International Journal on Computer Science & Engineering*, 2, 6, August 2010, pp. 2212-2222.
85. R. Kalpana and P. Thambidurai, "Optimization of Landmark preprocessing with Multi-core Systems", *Journal of Computing*, 2, 8, August 2010, pp. 102-108.
86. R. Kalpana and P. Thambidurai, ShahulHamead, "COAL: Combination of Arc flag and Landmark speedup techniques for shortest path queries", *CIIT International Journal of Networking and Communication Engineering*, 1, May 2009.
87. Cauveri.A and R. Kalpana, "Dynamic Fault Diagnosis Framework for Virtual Machine Rolling Upgrade", IEEE international conference on power and embedded drive control, Chennai, March 2017.
88. S.Kalaivanan, R. Kalpana, "Improving quality of fruits picked in orchards using Mahalanobis distance based model" International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS 2018, Springer 23 - 25 February, 2018 (accepted)
89. M. Priya and R. Kalpana, "Distributed and Parallel Processing of Location based spatial query with Approximate Transformation," in *Proceedings of 9th IEEE International Conference on Advanced Computing (ICoAC'17)*, pp. 334-338.
90. Umamageswari B and Kalpana R, "Web Data Extraction from Retailers' Site using Semantic Density and Case Based Reasoning," in *Proceedings of the ACM International Conference on Informatics and Analytics (ICIA'16)*, Pondicherry Engineering College, August 15-16, 2016. DOI: 10.1145/2980258.2980265
91. Umamageswari and Kalpana, "Automated Data Extraction from Medical Web Forums using Semantic Analysis" in *Proceedings of the IEEE Conference (9th International Conference on Advanced Computing (ICoCA'17))*, MIT, Anna University, December 14-16, pp. 549- 553, 2017.
92. R.Kalpana and M.Priya, "Learning Transformation Rule in Heterogeneous Environment using Log based Posterior Model", Proceedings of the 10 International Conference on Intelligent Systems and Control (ISCO'16), Vol. II, pp. 130-134, January 2016
93. UmamageswariKumaresan and Kalpana Ramanujam," A Framework for Extraction of Journal Information from Scientific Publishers Web Site", Proceedings of the 10 International Conference on Intelligent Systems and Control (ISCO'16), Vol. II, pp. 734-738, January 2016
94. V.Vijay,Dr.R.Kalpana,N.Moganarangan,D.Vinodh,R.Sriram,K.Gugan, "Adaptive traffic signal control using backbone routing in VANET", in the Proceedings of International

- Conference on Instrumentation Systems, Measurement and Automation (CISMA-2016), Pondicherry Engineering College, Puducherry, India
95. R. Kalpana and P. Thambidurai, "Partition Based Speedup Techniques for Time Dependent Shortest Path Problems", in *Proceedings International Conference on Instrumentation, Communication, Control and Automation ICICCA 2013*, Kalasilingam University, Tamilnadu, India, pp. 1-16, January 2013
 96. R. Kalpana and P. Thambidurai, "COCA : Combining Speedup techniques based on Containers and Arc flags", in *Proceedings International Conference on Advances in Computing and IT, Springer CCIS - Trends in Network and Communications*, Chennai, Tamilnadu, India, 197, July 2011, pp. 721-730.
 97. R. Kalpana and P. Thambidurai, "Parallelised Multilevel Arc Flags Improves Speedup In Shortest Path Queries", in *Proceedings IEEE International Conference on Process Automation, Control and Computing PACC 2011*, CIT, Coimbatore, Tamilnadu, India, 1, July 2011, pp. 1-7.
 98. R. Kalpana and P. Thambidurai, "Optimizing Shortest path Queries with Parallelised Arc flags", in *Proceedings of the IEEE International Conference on Recent trends in Information Technology ICRTIT 2011*, MIT, Anna University, Chennai, Tamilnadu, India, 1, June 2011, pp. 601-606.
 99. R. Kalpana and P. Thambidurai, Arvind Kumar, Parthasarathy, Praful ravi, "Exploiting Parallelism in Bidirectional Dijkstra for Shortest-Path Computation", in *Proceedings of International conference on Computers, Communication and Intelligence*, Madurai, India, 1, July 2010, pp. 351-356.
 100. R. Kalpana and P. Thambidurai, ShahulHamead, "A New Combined Speed up Technique to Shortest Path Queries Based on Land Mark and Arc Flag", in *Proceedings International Conference on Operations Research applications in Engineering and Management ICOREM*, Anna University, Trichy, Tamilnadu, India, 1, May 2009.
 101. R. Kalpana and P. Thambidurai, "Impact of Dynamic (Changing) access request in Multiserver Distributed Databases and use of ontology schema", in the proceedings of International Conference on Information systems and Technology, at MES College of Engineering and Technology, Kerala, on December 2007.
 102. R. Kalpana and P. Thambidurai, "Flexible task allocation technique for double credited multidomain peers", in the proceedings of International Conference on Trendz in Information sciences and Computing at Sathyabama University, Chennai, on December 2007.
 103. R. Kalpana and P. Thambidurai, "A modified algorithm for finding sum bottleneck path using bound conditions for partitioning problems in parallel, pipelined computing", in the proceedings of International Conference on Systematics, Cybernetics and Informatics, at Pentagram research centre, Hyderabad, on January 2008.
 104. R. Kalpana and P. Thambidurai, "Effective use of data mining techniques in distributed data allocation", in the proceedings of International Conference on Resource utilization and intelligent systems, at Kongu Engineering College, Tamilnadu, India, on January 2008.
 105. R. Kalpana and P. Thambidurai, Gayathri, "Dataset retrieval processing using Binary decision diagram under a classification tree model", in the proceedings of ACM International Conference on Advances in computing, at Anuradha Engg. College, Maharashtra, on February 2008.

a. NATIONAL CONFERENCES

106. R. Kalpana, A. Amuthan and M.Suganthi, "Bigo: Bi-Directional Search and Goal-directed Search for Improving Speed-up of Shortest path queries", 22nd National Conference on Innovative Techniques in Computing and Mining (ITCM'10), IFET College of Engineering, Tamilnadu, India
107. R. Kalpana, M. Sadish Kumar, R. Sakthivel and M. Suresh, "Impact of Middleware developments in distributed heterogeneous systems", in the proceedings of National Conference on Software, Telecommunication and Computer Networks, at ValliammaiEngg. College, Chennai, India, on March'2007.
108. R. Kalpana and Kavitha Kumar, "A survey on the role of mobile middleware in Enterprise mobile applications", in the proceedings of National Conference on Next generation Computing and Information systems, at Model Institute of Engg. & Tech., Jammu, India, on May' 2007.
109. R. Kalpana and K. Saruladha, "Simulation of private key Generator for IBE systems", in the proceedings of National Conference on Recent trends in NT, Karpagam arts college, Coimbatore, India, 2003.
110. R. Kalpana and S. Saraswathi, "Audio Stenography", in the proceedings of National Conference – Poster presentation Concourse 2003, at Eswari College of Engineering, Chennai, India, 2003.
111. S.Saraswathi, R.Kalpana and Prasanth, "Cardio Imaging", in the proceedings of National Conference, Concourse 2003, at Eswari College of Engineering, Chennai, India, 2003.
112. R. Kalpana and K. Saruladha, "Study of feasibility of introducing universal standards for technical education", Proceedings of Annual Convention & National Seminar on Reaching the Unreached – Challenge to Technical Education, Kumaraguru college of Engg., Coimbatore, India, 2003.
113. R. Kalpana and K. Saruladha, "Mobile Computing Services For Rural India", Proceeding of National Seminar on Rural Upliftment through IT, at PSGR Krishnammal College, Coimbatore, India, 2003.
114. R.Kalpana and S.Saraswathi, "Soft PBX (Private Branch Exchange)", Proceeding of National Seminar on Computer Networks, at Saurashtra University, Rajkot, India, 2002