Publication Details of Dr. R. Manimegalai

Research Interests

- Security in Distributed Embedded and IoT Designs, FPGA/VLSI Algorithms and Testing

Publications

International Journals	:	82
International Conferences	:	51
Book Chapters	:	4

Scopus id, citations and h-index : 9336334700, 180 and 6

ResearchGate Citations and Score : 204 and 20.14

GoogleScholar Citations : 294
GoogleScholar h-index, i-10index : 8, 7

Web of Science ResearcherID : T-1130-2017, 86 Citations, H-index:4
https://publons.com/researcher/2018930/manimegalai-r/metrics/

Orchid : http://orcid.org/0000-0003-1398-4080

PhD Research Scholars

- Graduated : 10
- Thesis/Synopsis Submitted : 05
- Currently doing : 02

Manimegalai R

ORCID iD
https://orcid.org/0000-0003-1398-4080

Print view

Also known as
Mani

Websites & Social Links
Professor and Head, Department of CSE, PSGiTech

Country
India

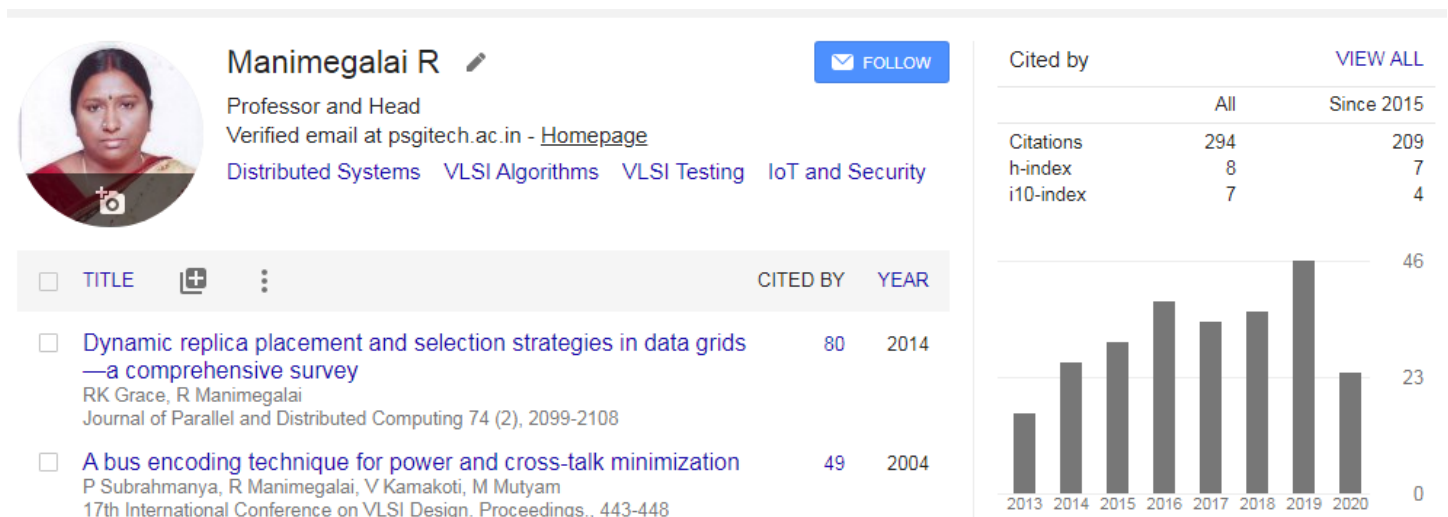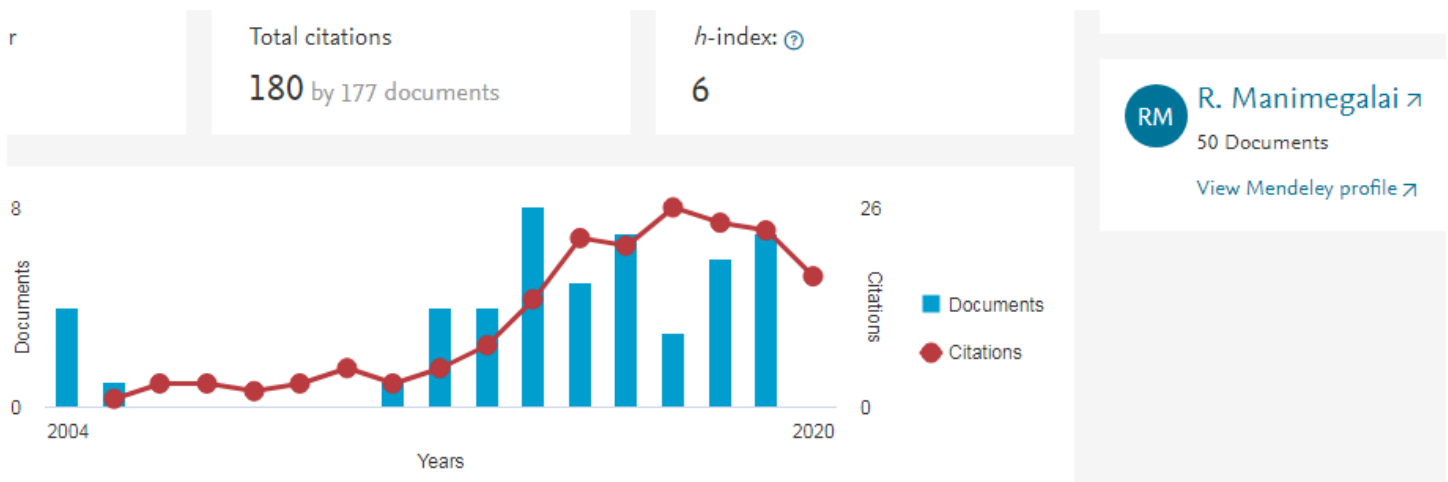### Biography

Dr R Manimegalai has done PhD in the Department of Computer Science and Engineering at IIT Madras. She is also an alumnus of PSG Tech., Coimbatore, and College of Engineering Guindy, Anna University where she has done her B.E. (CSE) and M.E. (CSE) respectively. She has more than twenty years of industry, research and teaching experience. She has worked as software engineer with DCM Technologies, New Delhi and Team Lead in Xilinx Technologies, Hyderabad. Currently, she is serving with PSG Institute of Technology and Applied Research, Peelamedu, Coimbatore as Professor and Head, in the Department of Computer Science and Engineering. Before joining PSGiTech, she was with PSG College of Technology, Peelamedu, Coimbatore as Professor and Program Coordinator. She has served in several educational institutions, with various capacities, as Dean, Director and Principal and has contributed to various aspects of teaching-learning and accreditation process.

She holds membership in several professional societies such as Fellow in Institution of Engineers India (IEI), Senior Member in Computer Society of India (CSI), ISTE, IEEE, ACM and VLSI society of India.

Her areas of interest include Security in Distributed Embedded and IoT Systems, and VLSI / FPGA Algorithms

Help

Books / Book Chapters

1. L Ashok Kumar, LS Jayashree, R Manimegalai, "Proceedings of International Conference on Artificial Intelligence, Smart Grid and Smart City Applications", 2020, 978-3-030-24051-6, 978-3-030-24050-9, DoI:10.1007/978-3-030-24051-6, Springer International Publishing, pages:969.

2. Suresh V., **Manimegalai R**, "SPIC - SRAM PUF Intergrated Chip Based Software Licensing Model", Part of the Communications in Computer and Information Science book series, Thampi S., Madria S., Wang G., Rawat D., Alcaraz Calero J. (eds) vol 969. Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-13-5826-5_29

3. Rajesh Kambattan Kovarasan and Manimegalai Rajkumar, "An Effective Intrusion Detection System Using Flawless Feature Selection, Outlier Detection and Classification", Volume 12019-01 | book-chapter, Part of ISBN: 978-981-13-1707-1, DOI: 10.1007/978-981-13-1708-8_19, Progress in Advanced Computing and Intelligent Engineering, pp.203-213.

4. R. Kingsy Grace , **R. Manimegalai**, "HGASA: An Efficient Hybrid Technique for Optimizing Data Access in Dynamic Data Grid", Distributed Computing and Internet Technology, Volume 9581, Book Chapter of Lecture Notes in Computer Science (LNCS), Springer, pp 132-136, Dec. 2015.
URL: http://link.springer.com/chapter/10.1007/978-3-319-28034-9_17

International Journals

1. N. Subbulakshmi, R. Manimegalai, "PEV based Filter Bank For Digital Hearing Aid Application: Pevfb", Journal Of Mechanics Of Continua And Mathematical Sciences, ISSN (Online) : 2454 -7190 Vol.-15, No.-1, January (2020) pp 147-159 ISSN (Print) 0973-8975. https://doi.org/10.26782/jmcms.2020.01.00011

2. Vishu V , Manimegalai R , 2019 , 'RFAS Key Generation to Enhance Authentication and Search in RFID Environments', International Journal of Recent Technology and Engineering(IJRTE) , ISSN: 2277-3878, Volume-8, Issue-2S11, pp. 348-353. https://www.ijrte.org/download/volume-8-issue-2s11/

3. Vishu V , Manimegalai R , 2019 , 'Enhanced Decision Making with RFDS Search Key in RFID Environments', Journal of Research on the Lepidoptera, ISSN 0022-4324 (print) ISSN 2156-5457 (online) Volume 50 (4), pp. 25-35. URL: http://lepidopteraresearchfoundation.org/abstract.php?id=62

4. V. Suresh kumar, R. Manimegalai, "Efficient test vector volume reduction based on equal run length coding technique", Microprocessors and Microsystems, Volume 68, 2019, pp 1-10, ISSN 0141-9331, https://doi.org/10.1016/j.micpro.2019.04.001, **IF: 1.045.** July 2019,

5. V.G.Prabhu, Dr.R.Manimegalai, "DRUM-Diabetic Retinography Detection Using Multi-Language Application", International Journal of Engineering Research & Technology, ISSN: 2278-0181, April-2019, vol.8, no.4, pp:586-589.

6. N Subbulakshmi, R Chandru, R Manimegalai, "MFMW: Modified Floor planning with Minimum Wirelength", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-2, December 2019, 4212-4213, DOI: 10.35940/ijitee.B6667.129219 https://www.ijitee.org/wp-content/uploads/papers/v9i2/B6667129219.pdf

7. N Subbulakshmi, R Manimegalai "Novel Lifting Filter Bank for Bird Call Analysis", Edited Book Chapter, Springer, March 2020, 978-3-030-24051-6, pp 871-880, https://link.springer.com/chapter/10.1007/978-3-030-24051-6_82

8. R Radhika, R Manimegalai, "A Comprehensive Survey on Strategies in Multi-Core Architectures, Design Considerations, and Challenges", Edited Book Chapter, Springer, March 2020, 978-3-030-24051-6, pp 811-818. https://link.springer.com/chapter/10.1007/978-3-030-24051-6_76

9. M Kandan, R Manimegalai, "Optimum Resource Allocation Techniques for Enhancing Quality of Service Parameters in Cloud Environment", Edited Book Chapter, Springer, March 2020, 978-3-030-24051-6, https://link.springer.com/chapter/10.1007/978-3-030-24051-6_78, pp 831-839.

10. VG Prabhu, R Manimegalai, "Monitoring and Improving the Productivity in Garment Unit Using IOT", Edited Book Chapter, Springer, March 2020, 978-3-030-24051-6, pp: 841-846, https://link.springer.com/chapter/10.1007/978-3-030-24051-6_79

11. Rooban S, R Manimegalru, "Test Data Compression Methods: A Review", Edited Book Chapter, Springer, March 2020, 978-3-030-24051-6, pp: 791-799, https://link.springer.com/chapter/10.1007/978-3-030-24051-6_74

12. Karthikeyan S, Hari Seetha and Manimegalai R, "Efficient Dynamic Resource Allocation in Hadoop Multiclusters for Load- Balancing Problem", Recent Patents on Computer Science (April 2019) 12: 1. | Print ISSN: 2213-2759 |ISSN: 1874-4796 |Volume 12 | No.1 | Pages:1-8 (Scopus). DOI : 10.2174/2213275912666190430161947

13. N.Subbulakshmi, R.Chandru, R.Manimegalai, "Implementation of LockIn Method using NLFB for Brain Monitoring Applications on FPGA", International Journal of Innovative Technology, and Exploring Engineering, ISSN: 2278-3075, 2019.

14. Suresh Kumar V & Manimegalai R, 2018, 'An Optimized Two Inverter Tri State Level Sensitive Scan Design', Accepted for Publication in 'Journal of Electrical Engineering'. (Updated Anna Univbersity List)

15. Vishu V, Manimegalai R, 2018, 'Integration of RFID Wireless Tags and Intelligence to Enhance Authentication in Smart Environment', International Journal of Pharmaceutical Research, ISSN – 09752366, Volume 10, Issue 4, pp. 115-120. DOI: http://www.ijpronline.com/ViewArticleDetail.aspx?ID=7042

16. Murali Dhar, M.S. & Manimegalai, R "A Policy-oriented Secured Service for the E-commerce Applications in Cloud", Personal and International Ubiquitious Computing (2018). https://doi.org/10.1007/s00779-018-1138-1. October 2018, Volume 22, Issue 5–6, pp 911–919

17. M, Natarajan & R, Manimegalai. (2018). Key agreement based secure Kerberos authentication protocol (KASKAP) for distributed database access in secured manner. International Journal of Engineering & Technology. 7. 24. 10.14419/ijet.v7i2.9.9364. pp 183-189.

18. M. Natarajan and Dr. R. Manimegalai "Key Agreement based Secure Kerberos Authentication Protocol (KASKAP) for Distributed Database in Secured Manner," International Journal of Engineering and Technology (IJET), pp 24-27, 2018. DOI: 10.14419/ijet.v7i2.9.9364

19. M. Natarajan and Dr. R.Manimegalai "Secure Data Access in Homogeneous and Heterogeneous Distributed Databases using Effective Authentication Protocols." - Under Review. https://www.sciencepubco.com/index.php/ijet/article/view/16241

20. Karthikeyan S, Dr.R.Manimegalai, "Implementation of Multi Node Hadoop Virtual Cluster on Open Stack based Cloud Environments" International Journal of Business Intelligence and Data Mining, Special Issue: Big Data Analytics and Business Intelligence. Inderscience, Scopus (Elsevier), 2019-01, ISSN:1743-8187, DOI: 10.1504/IJBIDM.2019.10012007 https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijbidm

21. Karthikeyan S, Hari Seetha, Manimegalai R, "An Efficient Toilet Queue based scheduling model for Time Constrained Jobs in Multi-node Hadoop Clusters" in the Journal of Advanced Research in

Dynamical and Control Systems(June 2019) Volume 11 | 06-Special Issue | ISSN :1943-023X| Pages: 647-655 (Scopus). https://www.jardcs.org/abstract.php?id=1320

22. Subbulakshmi, N and Manimegalai, R, "NLFB: Design of a Novel Lifting Based Filter Bank for Digital Hearing Aid", Journal of Computational and Theoretical Nanoscience, Volume 14, Number 3, March 2017, pp. 1410-1416, **Publisher:** American Scientific Publishers.
23. Subbulakshmi, N and Manimegalai, R, "MACGDI: Low Power MAC Based Filter Bank Using GDI Logic for Hearing Aid Applications", International Journal of Electronics and Electrical Engineering Vol. 5, No. 3, June 2017. pp:1-6.
24. M. Kandan., R. Manimegalai., "QRA: A Multi-stage Framework for Improving QoS in Resource Allocation ", Journal of Advanced Research in Dynamical and Control Systems, Vol.9, Issue. 5, pp. 131-141, 2017.
25. **Vishu V** & Manimegalai R, 2017 'RFID and Intelligence A Smart Authentication Method for Blind People', Journal of Advanced Research in Dynamical and Control Systems ,Volume 9, Issue 7,Page 49-56 (SCOPUS JOURNAL), ISSN 1943-023x, DOI: http://jardcs.org/papers/v9/21538.pdf

26. Subbulakshmi **N** & Manimegalai R., 2017, "A Comprehensive Survey on Filter Bank Designs for Digital Hearing Aids', Asian Journal of Information Technology, vol. 16, no.2, pp. 190-199. 1682-3915
27. Arvind, K.S. and **Manimegalai, R**, "Secure Data Classification using Superior Naïve-Classifier in Agent based Mobile Cloud Computing, Journal of Cluster Computing, Springer, doi:10.1007/s10586-017-0797-4,2017. **IF: 1.514**, ISSN: 1386-7857.
28. KS Arvind, R Manimegalai, S Vanitha, KS Suganya, "Distinctive Framework for Ensuring Privacy in Mobile Cloud", International Journal of Informative and Futuristic Research, Volume 4, Issue 7, March 2017, pp:6661-6668, http://ijifr.com/pdfsave/21-03-2017582IJIFR-V4-E7-018.pdf, ISSN:2347-1697.
29. K. Rajesh Kambattan, R. Manimegalai, S. Ganapathy, "An Increment Feature Selection Approach for Intrusion Detection System in MANET", International Journal for Research in Applied Science & Engineering Technology, Volume 5, Issue I, January 2017, ISSN: 2321-9653, pp:325-329.
30. Grace, Kingsy & Devasena, M.S.Geetha & Rajkumar, Manimegalai & Venugopal, Nagalakshmi, "MHCQ: A tool for measuring health care quality-using Sentimental Analysis", Asian Journal of Information Technology 2016, Volume: 15, Issue: 21,Page No.: 4223-4228, DOI: 10.3923/ajit.2016.4223.422815.
31. Karthikeyan S, Dr.R.Manimegalai, Dr.T.Hamsapriya, "A Dynamic Resource Allocation in Cloud Services through Intelligent Combinatorial Double Auction Approach" in International Journal of Research in Computer Science, Vol. 3, Issue 04, 2016,| ISSN: 2349-3828, 2016, pp:38-42.
32. Kingsy Grace R, **Manimegalai R**, Ranjith V, "RPLB: A Replica Placement Algorithm in Data Grid with Load Balancing", In The International Arab Journal of Information Technology, Vol. 14, Issue 6. Nov 2016. **Scopus Indexed**, Anna University **Annexure-I**-2013.1.1, Sl. No: 3687, SNIP : 1.127, SJR : 0.325, **IF:0.519**, **HI**:**13**, ISSN: 1683-3198 (print),
URL: http://ccis2k.org/iajit/images/stories/2016no6/7158.pdf
33. S. Rooban and R. Manimegalai, "Power Aware Entropic Hidden Markov Chain Algorithm for Code based Test Data Compression", Pakistan Journal on Biotechnology, Vol. 13, special issue II, 2016, pp. 1-6, http://www.pjbt.org/uploads/Special-Issue-(ICIIECS-16)-Year-2016-II%20(1).pdf
34. Manikandan, SP and Manimegalai, R and Hariharan, M," Gene Selection from Microarray Data Using Binary Grey Wolf Algorithm for Classifying Acute Leukemia", Journal Current Signal Transduction Therapy, Vol 11, pp 76-83, 2016 publishers : Bentham Science Publishers
35. **M. Kandan** and R. Manimegalai, "AIS-DAG: Artificial Immune System for Directed Acyclic Graphs Model based Fair Resource Allocation for Heterogeneous Cloud Computing" Asian Journal of Information Technology, Vol.15, Issue. 19, pp. 3673-3686, 2016. (**Annexure-I**, Version 2016.1, Serial Number: 1105, **IF**: 0.35, **HI**:4)
ISSN : 1682-3915 (Print), http://researchscript.com/wp-content/uploads/2016/10/IJRCS030409.pdf

36. Arvind. K. S and R. Manimegalai, "Privacy Enhanced Sitekey Authentication for Mobile Cloud Using Visual Cryptography", International Journal of Applied Engineering Research, Volume 10, Num. 71, 2015, pp.143-154, ISSN: 0973-4562, https://www.ripublication.com/Volume/ijaerv10n71spl.htm.

37. K. John Singh and **R. Manimegalai**, "Evolution of Encryption Techniques and Data Security Mechanisms", World Applied Sciences Journal, Vol. 33, Num. 10: pp: 1597-1613, 2015, **IF**:0.47, **HI**:20 ISSN: 1818-4952, URL: http://www.idosi.org/wasj/wasj33(10)15/6.pdf

38. R. Radhika**, Manimegalai R**., "Effective Architecture of Discrete Cosine Transform Using Sum Select Algorithm", International Journal of Applied Engineering Research, Volume.10, pp 1852-1856, 2015. (**Annexure – II**, Version 2014.1, Serial Number: 8565) **IF**:1.233, **HI**:9, ISSN: 0973-4562 (Print), URL: https://www.ripublication.com/ijaer_spl/ijaerv10n2spl_132.pdf

39. R. Radhika**, Manimegalai R**., "An Efficient FPGA Architecture For RDCT With Reduced Components", Australian Journal of Basic and Applied Sciences, 9(36) December 2015, Pages: 334-339. (Annexure – II, Version 2014.1, Serial Number: 1965) . **(Scopus Indexed)(HI:17, IF:0.23)** ISSN: 1991-8178, URL: http://ajbasweb.com/old/ajbas/2015/December/334-339.pdf

40. R. Radhika**, Manimegalai R,** "Design of Reconfigurable Discrete Cosine Transform in Multicore Architecture", accepted for publication in Asian Journal of Information and Technology. (AU Updated List of Journal 2016 : Sl.No : 1105) (**IF**: 0.35, **HI**:4), ISSN print: 1682-3915 URL: http://ajbasweb.com/old/ajbas/2015/December/334-339.pdf

41. R. Radhika**, Manimegalai R, "**Improving Energy Efficiency in Multi-Core Processing Using Dynamically Re-Focusing on Processors", International Journal of Advanced Engineering Technology. (AU Updated List of Journal 2016 : Sl.No : 4830, Vol VII : Issue II : April/June 2016, ISSN: 0976-3945, **IF:0.778**, **HI**:9), URL: http://www.technicaljournalsonline.com/ijeat/VOL%20VII/IJAET%20VOL%20VII%20ISSUE%20II%20APRIL%20JUNE%202016/201672145a.pdf

42. K.Rajesh Kambattan, **R.Manimegalai**, "An Effective Intrusion Detection System using CRF Based Cuttlefish Feature Selection Algorithm and MSVM", Accepted and to Appear In Asian Journal Of Information Technology. (AU Updated List of Journal 2016 : Sl.No : 1105) (**IF**: 0.35, **HI**:4), ISSN Print: 1682-3915, URL: http://www.medwelljournals.com/abstract/?doi=ajit.2016.891.895

43. S. Rooban, **R Manimegalai**, "Hybrid Architecture for Overlapped Test Vector Compression", Asian Journal Of Information Technology, Vol. 15, Num. 21, 2016 , pp: 4392-4399, **IF:0.35**, **HI**:**4**, ISSN Print: 1682-3915, URL: http://docsdrive.com/pdfs/medwelljournals/ajit/2016/4392-4399.pdf

44. Grace, R Kingsy and Manimegalai, R, "Dynamic replica placement and selection strategies in data grids—a comprehensive survey", Journal of Parallel and Distributed Computing, Volume 74, Issue 2, February 2014, Pages 2099-2108.

45. Kumar, V Suresh and **R.Manimegala**i, "Efficient Memory Built in Self-Test Address Generator Implementation "International Journal of Applied Engineering Research", Vol. 10, Num 7,2015, pp 16797-16813 ISSN 0973-4562 , Research India Publications http://www.ripublication.com.

46. Arvind, KS and Manimegalai, R and Suganya, KS," Tamper Protection for Dynamic Service Level Agreement in Intelligent Agent Based Mobile Cloud Framework" The IIOAB Journal Vol. 8 Num 4, 2015, pp 7-13

47. Nagalakshmi Venugopal**, Manimegalai R**., "Design of Finite Field Hybrid Multipliers with Optimum Placement and Routing Architecture", International Journal of Applied Engineering Research, Volume.10, Issue no.71, pp 293-306, 2015. (Annexure – II, Version 2014.1, Serial Number: 8565)(SNIP Value 0.16), **IF**:1.233, **HI:**9. ISSN Print: 0973-4562, URL: https://www.ripublication.com/Volume/ijaerv10n71spl.htm

48. Nagalakshmi Venugopal**, Manimegalai R**., "Wirelength Driven Placement for FPGA using Soft Computing Technique", International Journal of Applied Engineering Research, Volume.10, Issue no. 41, pp 30609-30613, 2015. (Annexure – II, Version 2014.1, Serial Number: 8565), **IF**:1.233, **HI**:9, ISSN Print: 0973-4562.

URL: https://www.ripublication.com/Volume/ijaerv10n41spl.htm

49. K. Kotteswari, SP Manikandan and **R Manimegalai**, "QuAADD: A Quick Access Routing Algorithm using Distance and Direction of Nodes in MANET", International Journal of Applied Engineering Research, Vol. 10, No.1, Jan 2015, pp:1011-1022, (AU Annexure II-version 2014.2. Sl. No. 8565) **(Scopus Indexed Journal)**
SNIP : 1.940, SJR: 0.617, **IF**:1.233, **HI**-9, ISSN Print: 0973-4562,
URL: https://www.ripublication.com/Volume/ijaerv10n1.htm

50. S. P. Manikandan, **R. Manimegalai**, S. Kalimuthu, "SEAR: Secured Energy-Aware Routing With Trusted Payment Model for Wireless Networks", ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 1, January 2015, ISSN 1819-6608, pp: 59 – 65. (AU Annexure II-version 2014.2. Sl. No. 1765) **(Scopus Indexed)**,
URL: http://www.arpnjournals.com/jeas/research_papers/rp_2015/jeas_0115_1422.pdf

51. M. Kandan., **R. Manimegalai**., "Multi Agent Based Dynamic Resource Allocation in Cloud Environment for Improving Quality of Service", Australian Journal of Basic and Applied Sciences, Vol. 9, No. 27, pp. 340-347, August 2015. (Annexure-II, Version 2014.2, Serial Number: 2095)(**HI**:17)ISSN:1991-8178
URL: http://ajbasweb.com/old/ajbas/2015/August/340-347.pdf

52. N.K. Kuppuchamy, **R.Manimegalai**, "Network Performance Improvement Using Fuzzy Genetic based AODV", International Journal of Applied Engineering Research, Volume 9, Number 23, Dec 2014, pp. 22373-22383. (AU Annexure II-version 2013.2.1. Sl. No. 8565) SNIP:1.940, SJR:0.617, **IF**:1.233, **HI**:3, **(Scopus Indexed),**
ISSN: **0973-4562,** URL: http://www.ripublication.com/Volume/ijaerv9n23.htm

53. S.Rooban, **Manimegalai R**,"Test Data Compression Techniques Emphasizing Linear Decompressor Based Schemes: A Review" International Journal of Applied Engineering Research, Volume :10, Number: 18, 2015,
IF:1.233, **HI**:9, ISSN: 0973-4562, URL: https://www.ripublication.com/ijaer10/ijaerv10n18_216.pdf

54. M. Kandan., **R. Manimegalai.,** "A Framework for Effective Resource Allocation in a Distributed Cloud Environment", International Journal of Applied Engineering Research, Vol. 10, No. 87, pp. 493-498, 2015. (Annexure-II, Version 2014.2, Serial Number: 8565), **IF**:1.233, **HI**:9), ISSN Print: 0973-4562
URL: https://www.ripublication.com/Volume/ijaerv10n87spl.htm

55. R. Kingsy Grace, **Dr. R. Manimegalai**, "Data Access Prediction and Optimization in Data Grid using SVM and AHL Classifications", International Review on Computers and Software, Vol 9, No. 7, 2014, pp. 1188-1194. **(Scopus Indexed),** (Annexure II-version 2013.2.1. Sl. No. 8815)(SNIP 2013: 0.722, SJR 2013: 0.217,
IF:1.25, **HI**:9, ISSN: 1828-6003, URL:
http://www.praiseworthyprize.org/jsm/index.php?journal=irecos&page=article&op=view&path%5B%5D=15825

56. M. Kandan., **R. Manimegalai**., "Strategies for Resource Allocation in Cloud Computing: A Review", International Journal of Applied Engineering Research, Vol. 10, No. 76, pp. 1-10, 2015. (Annexure-II, Version 2014.2, S.Num.: 8565), ISSN Print: 0973-4562, URL: https://www.ripublication.com/Volume/ijaerv10n76spl.htm

57. K. John Singh and **R. Manimegalai**, "A Novel Approach to Incorporate Efficient Security in Content Distribution", Journal of Engineering and Applied Science, Vol 9, Issue5, pp:190-197, July 2014. (Anna University Annexure-II-2013.1.1, Sl. No: 10177) (SJR: 0.13, Impact Factor: H Index 10 **(Scopus Indexed)**
ISSN: 1818 7803, URL: http://www.medwelljournals.com/abstract/?doi=jeasci.2014.190.197

58. Kuppuchamy, NK and **Manimegalai R**, 'Fuzzy Logic with Hybrid Optimization Approach for Optimal Route Selection in MANET', International Review on Computer and Software, vol.9, no.2, 2014, pp.

230-237. **(Scopus Indexed Journal)**(Anna University Annexure-II-2013.2.1, Sl. No: 8815).(SNIP 2013: 0.722, SJR 2013: 0.217, **IF**:1.25, **HI**:13) ISSN: 1828-6003
URL: http://www.praiseworthyprize.org/jsm/index.php?journal=irecos&page=article&op=view&path%5B%5D=14901

59. Vishu V, R Manimegalai, 2013, "A Smart Self Defense System for Physically or Mentally Challenged People Using RFID", International Journal of Multidisciplinary Research, ISSN 2277-9302, Volume. II, Issue 7, pp. 42-45.

60. Kingsy Grace and **R Manimegalai**, "Dynamic Replica Placement and Selection Strategies in Data Grid - A Comprehensive Survey", Journal of Parallel and Distributed Computing (JPDC), Volume 74, Issue 2, pp. 2099 –2108, Jan 2014. **Elsevier Academic Press**. (AU Annexure I-version 2014.1 Sl. No. 5164). **(Scopus Indexed Journal),** SNIP:1.940, SJR:0.62 , **IF**:1.233, **HI**: 61, **ISSN**: 07437315,
URL: http://dl.acm.org/citation.cfm?id=2565837

61. C Rakini, M. S. Murali Dhar, **R. Manimegalai**, "A Survey on Cloud Data Security", International Journal of Advance Research in Computer Science and Management Studies, Special Issue, Dec. 2013, pp: 16-21. **IF:6.047**, ISSN: 2347-1778 (print), URL: http://www.ijarcsms.com/docs/paper/volume1/SplDecember2013/V1I7-0009.pdf

62. John Singh, K. and **Manimegalai, R**. "Enhanced Randomized Arithmetic Coding for Joint Compression and Encryption of Video Data", Research Journal of Applied Sciences 8(10): 494-500, December 2013. (Anna University Annexure II 2013.2.1 Sl.No: 16239), SJR:0.24, **HI**:8 , **ISSN**: 1815932X, **(Scopus Indexed Journal)** URL: http://www.medwelljournals.com/abstract/?doi=rjasci.2013.494.500

63. N. K. Kuppuchamy, **R.Manimegalai**, "MANET Routing: Optimization by Genetic and Fuzzy Logic Approach", Journal of Theoretical and Applied Information Technology, Vol 58, No.2, pp. 440-450, December 2013. (Anna University Annexure II version 2013.2.1.– Sl.No:12050). **(Scopus Indexed Journal)**(SNIP: 0.113 , SJR:0.19, **IF**:1.71, **HI**: 12, ISSN: 1992-8645, URL: http://www.jatit.org/volumes/Vol58No2/24Vol58No2.pdf

64. John Singh, K. **Manimegalai, R**, Roopalakshmi, S., and Roshni Porwal, "Efficient Techniques for Securing Digital Video Data", Journal of Theoretical and Applied Information Technology, Vol.47, No. 2, pp. 852-859, January **2013**. (Anna University Annexure II version 2013.2.1. – Sl.No:12050). **(Scopus Indexed Journal)** (SNIP: 0.113, SJR: 0.19, **IF**: 1.71, **HI**: 12, **ISSN**: 18173195)

65. S. P. Manikandan, **R. Manimegalai**, "Trust Based Routing to Mitigate Black Hole Attack in MANET", Life Science Journal, Volume 10, Special Issue 4, March **2013**, pp: 490-498. (Anna University Annexure I earlier version – Sl.No: 5618). (SNIP:0.141, SJR:0.14, **IF**:0.165, **HI**:16 , **(Scopus Indexed Journal)** (AU Updated List of Journal 2016: Sl.No : 130), Print ISSN: 0024-3205.

66. Nagalakshmi Venugopal and **R. Manimegalai**, "Survey on FPGA Routing Techniques", accepted and to appear in International Journal on Computer Science and Engineering (IJCSE), July **2012**, Vol. 4 No. 07 pp. 1304 -1309, **HI**:7, ISSN: 2229-5631**, URL:** http://www.enggjournals.com/ijcse/doc/IJCSE12-04-07-102.pdf

67. S. P. Manikandan, **R. Manimegalai**, V. Rakesh, V. Vaishnavi, "A Packet Classification and Node-Level Certification Mechanism for Intrusion Detection in MANET", Communications in Computer and Information Science, **Springer Verlag**, Volume 269, January **2012**, pp 647-653. (Anna University Annexure II version 2014.2 – Sl.No: 4031). (SNIP: 0.247, SJR: 0.14, **IF**:5 , **HI**: 19), **ISSN**: 18650929 **URL**: http://link.springer.com/chapter/10.1007%2F978-3-642-29219-4_73

68. S. P. Manikandan and **R. Manimegalai**, "Survey on MANET Attacks and Mitigation using Routing Protocols", American Journal of Applied Sciences, Volume 9, Issue 11, September **2012**, pp: 1796-1801. (Anna University Annexure II version 2013.2.1., Sl.No: 843). SNIP: 0.247, SJR: 0.27, **HI**:8). **(Scopus Indexed),** ISSN:1546-9239

69. John Singh, K. and **Manimegalai R**. "Puzzle Fast Random Bit Encryption Technique for Joint Video Compression and Encryption", Journal of Theoretical and Applied Information Technology, Vol. 41,

No. 1, July **2012**, pp. 45-50. (Anna University Annexure II version 2013.2.1.– Sl.No:12050), SNIP:0.113, SJR:0.19, **IF**: 1.71, **HI**:12) **(Scopus Indexed Journal), ISSN**: 18173195.

70. R. Priyanka, B. Chitra Devi, Asha Srinivasan, M. Shanmugasundaram and **R. Manimegalai**, "Grammar Automata: Tool for Learning English Language", accepted and to appear in International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 7, August **2012**)(IF:0.745)**ISSN**: 2250–2459. **URL**: http://www.ijacit.com/articles/twelve/vol1issue2/vol1issue2/EIJACIT120014.pdf

71. R. Rithra, A. Shameema Parven, V. Vishnupriya, M. Shanmugasundaram and **R. Manimegalai**, "Efficient Data Retrieval using Corrugated Search Technique", International Journal of Advances in Computing and Information Technology (IJACIT), Vol.1, Issue2, April **2012**, pp-108-114.ISSN: 2277-9140, URL: http://www.ijacit.com/articles/twelve/vol1issue2/vol1issue2/EIJACIT120014.pdf

72. N. K. Kuppuchamy and **R.Manimegalai**, "A Comprehensive Survey of AODV Routing Protocol in MANET', Journal of Computer Science and Engineering, Vol. 12, Issue 1, March **2012**, pp:1-4, (**Indexed In Scopus),** ISSN: 1976 4677,
URL: http://documents.mx/documents/a-comprehensive-survey-of-aodv-routing-protocol-in-manet.html

73. Singh, K John and **Manimgegalai R.**" A Survey on Joint Compression and Encryption Techniques for Video data" Journal of Computer Science,Vol. ,Issue , **2012,** pp:731-736 (citations 12)

74. John Singh, K. and **Manimegalai R**. "Fast Random Bit Encryption Technique for Video Data", European Journal of Scientific Research, Vol.64, No. 3, pp. 437-445, November **2011**. (Anna University Annexure II earlier version – Sl.No: 5855), (SNIP: 2.636, SJR: 2.595 , Imapct Factor: 2.625, H Index: 22) **(Indexed in Thomson Reuters and Scopus)**, **ISSN**: 1450202X

75. S. P. Manikandan and **R. Manimegalai**, "Evaluation of Intrusion Detection Algorithms for Interoperability Gateways in Ad Hoc Networks", International Journal on Computer Science and Engineering (IJCSE), Vol. 3 No. 9, September **2011**, pp 3243-3249, (**Indexed In Scopus)** , **IF**: 2.162, ISSN : 2229-5631.
URL:http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.232.9138

76. R. P. Shyni Vinse, K. John Singh, **R. Manimegalai**, "Optimal Solution for Finding Secured Routes in Mobile Ad-Hoc Networks ", CiiT International Journal of Networking and Communication Engineering, Vol 2, No 9, September-**2010**. pp 281-285, (**IF**: 0.569, ISSN: 0974 – 9713)
URL: http://ciitresearch.org/dl/index.php/nce/article/view/NCE092010001

77. John Singh, K.a, Manimegalai, R.b A survey on joint compression and encryption techniques for video data(Article)Volume 8, Issue 5, 2012, Pages 731-736 ISSN: 15493636

78. John Singh, K., Manimegalai, "Fast random bit encryption technique for video data" Volume 64, Issue 3, November 2011, Pp 437-445 ISSN: 1450216X

79. Rajesh Kambattan, K., Manimegalai, R."An Effective intrusion detection system using CRF based cuttlefish feature selection algorithm and MSVM" 2009-2016, Asian Journal of Information Technology, ISSN:1682-3915

80. Kuppuchamy, N.K., Manimegalai, R. "Manet routing: Optimization by genetic and fuzzy logic approach",2005-2009, Journal of Theoretical and Applied Information Technology, ISSN:1992-8645

81. Arvind, K.S., Manimegalai, R., Suganya, K.S."Privacy preserving public auditing for cloud storage using elliptic curve digital signature", Journal of Computational and Theoretical Nanoscience, ISSN:1546-1955

82. Kingsy Grace, R.A, Geetha Devasena, M.S.a, Manimegalai, R.b, Nagalakshmi "MHCQ: A tool for measuring health care quality-using Sentimental Analysis", Volume 15, Issue 21, 2016, Pp 4223-4228 Asian Journal of Information Technology, ISSN: 16823915

International Conferences

1. Vishu V, Manimegalai R, "Enhanced Decision Making with RFDS Search Key in RFID Environments", Accpeted for International Conference on Communication and Signal Processing (ICCSP), Melbourne Australia, July 2020.

2. Ajith Jerom, R Manimegalai, "An IoT based Smart Water Quality Monitoring System Using Cloud", International Conference on Emerging Trends in Information Technology and Engineering, 24th – 25th February, 2020, VIT Vellore. https://ieeexplore.ieee.org/document/9077792

3. B Ajith Jerom, V Ilayaraja, R Manimegalai, "SWAQMS: An IOT based Smart Water Quality Monitoring System", 9th International Conference on Recent Engineering and Technology 2019, New Horizon College of Engineering, Ring Road, Near Marathalli,05, May 2019.

4. Nagalakshmi Venugopal, Manimegalai R, "Efficient and Adaptive Evolutionary Algorithms for FPGA Placement Problem", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications, 2019, pp: 520-525.

5. N Subbulakshmi, Manimegalai R, "Novel Lifting Filter Bank for Bird Call Analysis", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications, 2019.

6. R Radhika, Manimegalai R, "A Comprehensive Survey on Strategies in Multi-Core Architectures, Design Considerations, and Challenges", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications, 2019.

7. M Kandan, Manimegalai R, "Optimum Resource Allocation Techniques for Enhancing Quality of Service Parameters in Cloud Environment", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications, Jan 2019, India.

8. R Kingsy Grace, M.S.Geetha and Manimegalai R, "**BABW: Biometric based Authentication using DWT and FFNN**", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications, 2019, pp: 508-513.

9. VG Prabhu and Manimegalai R, "Monitoring and Improving the Productivity in Garment Unit Using IOT", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications, 2019, pp: 554-559.

10. Rooban S, Manimegalai R, "Test Data Compression Methods: A review",International Conference on Artificial Intelligence, Smart Grid and Smart City Applications, 2019.

11. Nagalakshmi Venugopal, Manimegalai R," Group Key Protocol using FIFO Routing Technique life time improvement and Reliable Communication in Sensor Networks ", 12th International Conference – Framework Convention for Engineering Sciences, Bali, Indonesia, 25th and 26th Nov,2018

12. Suresh V., Manimegalai R, "SPIC - SRAM PUF Intergrated Chip Based Software Licensing Model", 6th International Symposium on Security in Computing and Communication, Bangalore, India, September 19–22.

13. N Subbulakshmi, Mrs. Indrani, R Manimegalai, "PEVFB: PEV based Filter Bank for Hearing aid Application", International Conference on "Signal Processing, Communications, Embedded & VLSI Technologies, 12th April, 2018, pp:69-75.

14. P. Jayapriya, R.Manimegalai, "Early Detection of Cervical Cancer Using Deep Learning Techniques", International Conference on "Signal Processing, Communications, Embedded & VLSI Technologies, 12th April, 2018, pp:16-24.

15. Karthikeyan S, Hari Seetha Seetha and Manimegalai R, "Nature Inspired Optimization Techniques for Cloud Scheduling Problem", In Proceedings of International Conference on Energy Efficient Technologies for Sustainability, St.Xavier's Catholic College of Engineering, TamilNadu, India. 5th to 7th April, 2018, Number of pages: 10 Posted: 19 Apr 2018.

16. S Jayapriya and R Manimegalai, "A Secured Mechanism for Protecting the Fingerprint Template in Biometric Applications", International Conference on Cyber Physical Systems for Next Generation Computing, 1-3, March 2018, pp:180-186.

17. K.S.Arvind, R.Manimegalai and K.S.Suganya, "Privacy Preserving Public Auditing for Cloud Storage using Elliptic Curve Digital Signature", International Conference on Cyber Physical Systems for Next Generation Computing, 1-3, March 2018, pp:205-209.

18. Rajesh Kambattan Kovarasan and Manimegalai Rajkumar, "An Effective Intrusion Detection System Using Flawless Feature Selection, Outlier Detection and Classification", In Proceedings of 2nd International Conference on Advanced Computing and Intelligent Engineering, 2017, Central University of Rajasthan, Ajmer, India.

19. Subbulakshmi **N.**, Manimegalai R., 'MVFB: Modified Variable Filter Bank Designs with Warped Filters', *In Proceedings of International Conference on Electrical Sciences,* Page Number 4, March 2017

20. Subbulakshmi **N.**, Manimegalai R., 'MACGDI: Multiply and Accumulate unit using Gated Diffusion Input Logic', *In proceedings of Internatioanal Conference on Digital Signal Processing, Kulalumpur, Malaysia,* Page Number 13, April 2017.

21. Nagalakshmi Venugopal, **Manimegalai R**, "Placement Algorithm for FPGA using Multi-swarm Optimization",International Conference on innovations in Green Energy and Healthcare Technologies, Dr. NGP.Institute of Technology, Coimbatore, March 16- 18,2017.

22. K.S. Arvind, R. Manimegalai, KS Suganya, "Tamper Protection for Dynamic Service Level Agreement In Intelligent Agent Based Mobile Cloud Framework", International Conference on innovations in Green Energy and Healthcare Technologies, Dr. NGP Institute of Technology, Coimbatore, March, 2017.

23. S. Rooban, **Manimegalai R**, "Power Aware Entropic Hidden Markov Chain Algorithm for Code based Test Data Compression", International Conference on Engineering and Technology Systems (ICET'2016), 2016.

24. Grace, Kingsy & Rajkumar, Manimegalai & Devasena, M.S.Geetha & Rajathi, S & Usha, K & N. Raabiathul, Baseria. (2016). Air pollution analysis using enhanced K-Means clustering algorithm for real time sensor data. 1945-1949. 10.1109/TENCON.2016.7848362.

25. Grace, Kingsy & Rajkumar, Manimegalai,"HGASA: An Efficient Hybrid Technique for Optimizing Data Access in Dynamic Data Grid" In Proceedings of 12th International Conference on Distributed Computing and Internet Technology, Bhubaneswar, India, January 15-18, 2016, pp.132-136,10.1007/978-3-319-28034-9_17.

26. Nagalakshmi Venugopal, **Manimegalai R**, "Design of Finite Field Hybrid Multipliers with Optimum Placement and Routing Architecture", International Conference on "Innovative Research in Engineering and Technology, Coimbatore, April 2015.

27. K S Arvind, **R Manimegalai**, "Privacy Enhanced Sitekey Authentication for Mobile Cloud using Visual Cryptography", International Conference on Innovative Research in Engineering and Technology, Coimbatore, April 2015.

28. Nagalakshmi Venugopal, Shobana V, **Manimegalai R**, "Analysis of Optimization Techniques in FPGA Placement," In Proceedings of IEEE International Conference on Computer Communication and Informatics (ICCCI), 2014, pp.1-5, January, 2014, doi: 10.1109/ICCCI.2014.6921742

29. Kingsy Grace R., Janani D., **Manimegalai R.**, Geetha M., Mahitha J., "Energy Efficient Data Placement Algorithm for Cloud Data Center", in Proceedings of 2nd International Conference on Emerging Research in Computing, Information, Communication and Applications, (ERCICA-2014), 01-02 Aug 2014, Bangalore, India, volume. 1, pp. 923-927.

30. Kingsy Grace R., **Manimegalai R.**, Sumeetha S., Selvanayaki P., "GA Based Replica Selection in Data Grid", Proceedings of 4th IEEE International Conference on Advances in Engineering and Technology, ICAET 2014, held on 2nd and 3rd May 2014, India.

31. Kingsy Grace R., **Manimegalai R.**, Suresh Kumar S., "Medical Image Retrieval System in Grid using Hadoop Framework", Proceedings of 2014 Inernational Conference on Computational Science and Computational Intelligence (CSCI-2014) held on March 10-13, 2014, Las Vegas, USA, and is published with IEEE CPS proceedings, pp. 144-148, 2014, DOI 10.1109/CSCI.2014.31.

32. N. Subbulakshmi and **R. Manimegalai**, "A Survey of Filter Bank Algorithms for Biomedical Applications", in Proceedings of IEEE International Conference on Computer Communication and Informatics (ICCCI -2014), Jan. 03 – 05, 2014 Page Number.1-5.

33. Nagalakshmi Venugopal, V Shobana, **R Manimegalai**, "Analysis of Optimization Techniques in FPGA Placement", in Proceedings of IEEE International Conference on Computer Communication and Informatics (ICCCI -2014), Jan. 03 – 05, 2014, India.

34. Vishu V, R Manimegalai, 2013, "A Smart Self Defense System for Physically or Mentally Challenged People Using RFID", CIMSR – International Research Conference Singapore (presented), Oct. 24-25, 2013, Singapore.

35. R. Kingsy Grace, M. Madhumathi, **R. Manimegalai**, "Efficient Data Prediction Scheme Using Time Series Classification", Second International Conference on Innovative Research in Engineering and Technology, India, January, 2013.

36. S. Sathish Kumar, **R. Manimegalai**, "Mutual Policy Enabled Intelligent Agent for Data Integrity Verification in Cloud Environment", Second International Conference on Innovative Research in Engineering and Technology, India, January, 2013.

37. R. Kingsy Grace, M. Madhumathi and **R. Manimegalai**, "Efficient Data Prediction Scheme using SVM Classification" In Proceedings of International Conference on Computer Science and Information Technology, Feb. 2013, ISBN:978-93-82208-62-4.

38. R. Priyanka B. Chitra Devi Asha Srinivasan and **R. Manimegalai**. "Text Analysis Tool for Rural School Students", In Proceedings of International Conference on Emerging Technological Trends in Advanced Engineering Research Feb. 2012, Kollam, India.

39. Subbulakshmi, N., Manimegalai, R. "A survey of filter bank algorithms for biomedical applications" 2014, International Conference on Computer Communication and Informatics: Ushering in Technologies of Tomorrow, Today, ICCCI 2014

40. R. Radhika and **R.Manimegalai**, "Synergy And Systems In Silicon: Survey On FPGA Based Hardware Software Co-Design", In Proceedings of International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT) February 2012, Kollam, India, ISBN: 978-93-80624-62-4.

41. T. Nagalakshmi and **R. Manimegalai**, "Domain Ontology based Intelligent Mobile Searches in Cloud", In Proceedings of International Conference on Emerging Technological Trends in Advanced Engineering Research, February 2012, India.

42. S. Febina Rexy and **R. Manimegalai**, "LFSR Based Bist For Test Generation And Response Evaluation Using Modified Berlekamp Massey Algorithm",In Proceedings of International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT) February 2012, Kollam, India, ISBN: 978-93-80624-62-4

43. R.Rithra, A. Shameema Parven, V. Vishnupriya, M. ShanmugaSundaram and **R. Manimegalai**, "Corrugated Search Engine for Efficient Information Retrieval", In Proceedings of International Conference on Emerging Technological Trends in Advanced Engineering Research, February, 2012, Kollam, India, ISBN: 978-93-80624-62-4.

44. K. John Singh, Mayurakshee Ghose and **R. Manimegalai**, "A Study on Video Compression and Encryption Techniques", In Proceedings of International Conference on Emerging Technology Trends in Advanced Engineering Research at Kollam, Vol. 1, ISBN: 978-93-80624-62-4, 20th -21st February 2012.

45. S. P. Manikandan, **R. Manimegalai**, Rakesh Vasudevan and Vaishnavi Venkatesan, "A Packet Classification and Node-Level Certification Mechanism for Intrusion Detection in MANET", In the

proceedings of Fourth International Conference on Recent Trends in Computing, Communication and Information Technologies- 2011, **Springer**, pp647-653.

46. **R.Manimegalai**, E. Siva Soumya, V. Muralidharan, B. Ravindran, D. Bhatia, V. Kamakoti, (2005) "Placement and Routing for 3D-FPGAs using Reinforcement Learning and Support Vector Machines", IEEE International Conference on VLSI Design-2005, pp: 451-456.
47. P. Subrahmanya, **R. Manimegalai**, V. Kamakoti, Madhu Mutyam, (2004) "A Bus Encoding Technique for Power and cross-talk Minimization", IEEE International Conf. on VLSI Design-2004, pp: 443-448.
48. B. Jayaram, A. Manojkumar, **R. Manimegalai**, V. Kamakoti, (2004) "MemMap-pd: Performance Driven Technology Mapping Algorithm for FPGAs with Embedded Memory Arrays", In IEEE Reconfigurable Architectures Workshop (RAW), IPDPS-2004, in New Mexico, USA. pp: 152.
49. **R. Manimegalai**, B. Jayaram, A. Manojkumar, V. Kamakoti, (2004) "SHAPER:Synthesis for Hybrid FPGAs containing PLAs using Reconvergence Analysis", In Proceedings of IEEE International Conference on Field Programmable Technology - 2004, pp: 57-64.
50. **R. Manimegalai**, T.V.Geetha, Ranjani Parthasarathy, (2003) "An Object Oriented Semantic Builder for Tamil Newspaper Articles", International Conference on Language Development-2003, Thailand.
51. Venugopal, N., Shobana, V., Manimegalai, R "Analysis of optimization techniques in FPGA placement" 2014 International Conference on Computer Communication and Informatics: Ushering in Technologies of Tomorrow, Today, ICCCI 2014. 6921742

National Conferences

1. Vyshak Suresh, R. Manimegalai, "Intelligent Intrusion Detection System using IoT", Presented in Research Carnival, Students Research Council, PSG College of Technology, 10.03.2018.
2. S Jayapriya and R Manimegalai, "A Survey on Filtering Techniques for Denoising Images", National Conference on Recent Trends in Information Technology.
3. T. V. Asha, A. Nandhini, V. Mythili and R. Manimegalai, "Efficient Data Access for Academia using Cloud", Research Symposium on Pervasive Computing and its Underlying Technologies (ReSYM-2011), 2011, pp: 154-157.
4. C.Vanathy and R. Manimegalai, "Secured Communication for Wireless Mesh Networks", Research Symposium on Pervasive Computing and its Underlying Technologies (ReSYM-2011), 2011, pp: 40-44.
5. R. Kingsy Grace and R. Manimegalai, "Secured Replica Placement in Data Grid", Research Symposium on Pervasive Computing and its Underlying Technologies (ReSYM-2011), 2011, pp: 148-153.
6. R. Ramya Seruba and R. Manimegalai, "Client side Autentication for Broadcasting Data using Batch Signature Scheme", Research Symposium on Pervasive Computing and its Underlying Technologies (ReSYM-2011), 2011, pp: 143-147.

7. R. Manimegalai, K. S. Sridharan, "Embedded systems for PC based automation" in the one-day Seminar organized by Institution of Engineers(TamilNadu state Chapter) on 21st, July 2001.

8. R. Manimegalai, K. S. Sridharan, "Fibre Channel Storage area Networks" in National Systems Conference 2001 organized by PSG College of Technology and Systems Society of India.