

Curriculum Vitae

Dr. R. Mohan

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Department of Computer Science and Engineering
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Academic Degrees

- ❖ **Doctor of Philosophy (Ph. D)** in Computer Science and Engineering, National Institute of Technology, Tiruchirappalli, October 2014.
 - ✓ **Area of Specialization:** High Performance Computing
 - ✓ **Title of the Thesis:** A study of Task Assignment Problems in Distributed systems
- ❖ **Master of Engineering (M.E)** in Software Engineering, Jadavpur University, Kolkata, January 2003 – December 2004.
- ❖ **Bachelor of Engineering (B.E)** in Computer Science and Engineering, Thiagarajar College of Engineering, Madurai Kamaraj University, 1994 - 1998.

Professional Experience

- ❖ **Lecturer** in the Department of Computer Science and Engineering, Sethu Institute of Technology, Madurai, July 1998 - May 1999.
- ❖ **Programmer** in Promen Technologies Pvt Ltd, October 1999 - June 2001.
- ❖ **Lecturer** in the Department of Computer Science and Engineering, Madha Engineering College, Chennai, July 2001 - January 2003.
- ❖ **Lecturer** in the Department of Computer Science and Engineering, College of Engineering, Guindy, Anna University, Chennai, February 2005 - January 2006.

- ❖ **Lecturer** in the Department of Computer Science and Engineering, Manonmaniam Sundaranar University, Tirunelveli, January 2006 - May 2006.
- ❖ **Assistant Professor** in the Department of Computer Science and Engineering, NIT Tiruchirappalli, May 2006 - till date.

Area of Specialization

- Software Engineering,
- Data Structures & Algorithms.
- Graph Theory

Current Courses

- Software Engineering
- Data Structures & Algorithms.
- Mobile Computing

Selected Publications

REFEREED JOURNALS

1. **Mohan, R** and N.P. Gopalan (2013) A Modified Parallel Heuristic Graph Matching Approach For Solving Task Assignment Problem in Distributed Processor System. *International Journal of Information Technology and Computer Science (IJITCS)*, **5**, 78-84.
2. D. Sriramkumar, R. Malmathanraj, **R. Mohan** and S. Umamaheswari Mammogram tumour classification using modified segmentation techniques, *Int. J. Biomedical Engineering and Technology*, Vol. 13, No. 3, 2013. (Scopus Indexed)
3. **Mohan, R.** and N.P. Gopalan (2014) Dynamic Load Balancing Using Graphics Processors. *International Journal of Intelligent Systems and Applications*, **6**, 70-75. (Scopus Indexed)
4. **Mohan, R.** and N.P. Gopalan (2014) Task Assignment for Heterogeneous Computing Problems using Improved Iterated Greedy Algorithm. *International Journal of Computer Network and Information Security*, 6, 50-55.

5. **R Mohan** and Amitava Gupta (2011) Graph Matching Algorithm for Task Assignment Problem. International Journal of Computer Science, Engineering and Applications 1(6)
6. **R.Mohan** and NC Ram (2012) A Study of Data Transfer in a Grid using Globus Toolkit. Journal of Information Systems and Communications 3(1). International Journal of Information Systems and Communications 3 (1).
7. Preeth Raguraman, **R.Mohan**, Vishnu Balakrishnan (2018) Localization in Wireless Sensor Networks: A Dimension based pruning approach in 3D environments. Elsevier Applied Soft Computing, 68(2018), 219-232. (SCIE Indexed)
8. Midhula Vijayan, and **R.Mohan**. Moving object detection using vector image model. Elsevier Optik 168 (2018): 963-973. (SCI Indexed)
9. Midhula Vijayan, and **R.Mohan**. A Fast DGPSO-Motion Saliency Map based Moving Object Detection. Springer, Multimedia tools and Applications (Accepted, in press). (SCIE Indexed)

INTERNATIONAL CONFERENCES

1. Preeth R, **R Mohan** (2016). Indoor Localization in Wireless Sensor Networks: A Survey. National conference on Communication and Computing Technologies,2016 (NCCCT 2016). Anna University, Tiruchirappalli (BIT Campus), August 2016, pp 67-71.
2. Preeth R, **R Mohan**, Ashwini Kumar Badal (2016). Self-Localization and Routing in densely deployed wireless networks using LAS algorithm. ACM International Conference on Informatics and Analytics (ICIA 2016). Pondicherry Engineering College, Puducherry. Doi: 10.1145/2980258.2980403.
3. Athira A P, Midhula Vijayan, **R Mohan** (2016). Review on object detection and tracking techniques. National conference on Communication and Computing Technologies, 2016. (NCCCT 2016). Anna University, Tiruchirappalli (BIT Campus), August 2016, pp 6-11.
4. Midhula Vijayan, Athira A P, **R Mohan** (2016). Video copy detection using DCT and DWT. National conference on Communication and Computing Technologies,2016. (NCCCT 2016). Anna University, Tiruchirappalli (BIT Campus), August 2016, pp 29-33.
5. Athira A P, Midhula Vijayan, **R Mohan** (2016). Object detection and tracking techniques: A Survey. International Conference on Advanced Computing and Communications (ICACC-2016), Shri Vishnu Engineering College for Woman, Bhimavaram, India, October, 2016.
6. Athira A P, Midhula Vijayan, **R Mohan** (2016). Moving object detection using local binary pattern and Gaussian background model. Springer International Conference on Industry Interactive Innovation in Science, Engineering & Technology (I3SET 2016), JIS College of Engineering, Kalyani, India, October, 2016, pp 367-376.
7. Athira A P, Midhula Vijayan, **R Mohan** (2017). Moving Object Detection Using Local

Ternary Pattern (LTP). IEEE International Conference On Telecommunication, Power Analysis and Computing Techniques – 2017 (ICTPACT-2017). Bharath Institute of Higher Education, Chennai, India, April, 2017.

8. Midhula Vijayan, **Mohan R.** A novel foreground segmentation technique using convolutional neural network. International Conference on Recent Trends in Image Processing & Pattern Recognition, Solapur University, Solapur, Maharashtra. December 2018. (Under Review)
9. Preeth Raguraman, **Mohan R.**, Panigrahi Smrutitilak Dash. Technology Powered Assessment for music signal processing using LibROSA. 15th IEEE International Conference on Advanced Video and Signal-based Surveillance, Auckland, New Zealand, November 2018. (Under Review)
10. **Mohan, R.** and A. Gupta (2011) A Parallel Task Assignment using Heuristic graph Matching. First International Conference (PDTCTA 2011), Tirunelveli, Tamilnadu, India, Springer LNCS CCIS Proceedings, Sep, 2011, pp. 334-343.
11. **Mohan, R.** and N.P. Gopalan (2012) Parallel Heuristic graph Matching Algorithm for Task Assignment Problem in Distributed Computing Systems. IEEE International Conference on Computer & Information Science (ICCIS 2012), Malaysia, June, 2012, pp 575-579.
12. Raja Ram Jaiswal, K Geetha, **R Mohan** (2013) An Intelligent Adaptive Round Robin (IARR) Scheduling Algorithm for Performance Improvement in Real Time Systems. Elsevier International Conference on Advances in Mechanical Engineering -2013, pp. 813-819.
13. Bala Bhaskara Rao Kakarla, Sanjana S., **Mohan R** (2010). Detecting Micro-Calcification in Digital Mammograms. National Conference on Advanced Pattern Mining and Multimedia Computing, National Institute of Technology, Tiruchirappalli, India, January 2010.

Ph. D. / M.S. Students Guidance

S.No	Name	Year & Month Enrolled	Course	Status
1.	R.Preeth	February-2015	Ph.D(Full-Time)	On-going
2	Midhula Vijayan	July-2015	Ph.D(Full-Time)	On-going
3	A.P.Athira	July-2015	M.S(By Research)	Completed
4	SSSN Usha Devi	February-2016	Ph.D (PT)	On-going

5	Shalini	July-2016	Ph.D (PT)	On-going
6	Randive Krunal Dhanraj	July-2017	Ph.D(Full-Time)	On-going

Book Publication Details

1. Contributed Problem with solutions for Computer Organization and Architecture, 9th Edition, William Stallings, Pearson International Edition.
2. Artificial Immune System Based Clonal Classifiers: A New Dimension of Innovation, Scholars' Press (2016), ISBN-10: 3659839434, ISBN-13: 978-3659839436.
3. Impact of Artificial Intelligence on Bioinformatics, LAP LAMBERT Academic Publishing (2016), ISBN-10: 365988202X, ISBN-13: 978-3659882029.