

## CURRICULUM VITAE

1. Name : **Dr. E.MOHANRAJ**  
2. Address : Associate Professor,  
Department of Computer Science and Engineering,  
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3. Date of Birth: 24.05.1982

#### 4. Educational Qualification:

DEGREE	SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR OF PASSING	% OF MARKS	CLASS
Ph.D.	Mobile Adhoc Networks	-	Anna University, Chennai	October 2014	-	-
M.E.	Computer Science and Engineering	K.S.Rangasamy College of Technology, Tiruchengode.	Anna University, Chennai	May 2007	78%	First Class with Distinction
B.E.	Electrical and Electronics Engineering	M.P.Nachimuthu M.Jaganathan Engineering College, Chennimalai.	Anna University, Chennai	April 2005	66%	First Class
DIPLOMA	Electrical and Electronics Engineering	M.P.Nachimuthu M.Jaganathan Polytechnic College, Chennimalai.	DOTe	March 2001	85%	First Class with Honours
SSLC	General	Government Higher Secondary School, V.Vellode.	State Board	March 1997	70%	First Class

5. Research Topic : Secured QoS Routing using Multicast Group Self Assessment in MANET

**(Recognized Ph.D Supervisor at Anna University, Chennai, Recognition number: 2740067)**

6. Area of interest : Big data Analytics, Cloud Computing

7. Teaching Experience : 12 Years 1 Month

8. Membership in Professional Body : Life Member of ISTE (LM 54064)

International Association of Engineers (IAENG) -No.:231316

## 9. Professional Experience:

INSTITUTION	POSITION HELD	FROM	TO
K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu. (An Autonomous Institution, Accredited by NBA & NAAC with 'B++' Grade)	Associate Professor	01.11.2016	Till date
	Assistant Professor	01.06.2010	31.10.2016
	Lecturer	30.05.2007	31.05.2010
<b>Total</b>		<b>12 Years 1 Month</b>	

## 10. Research Publications :

### International Journal Publications

1. **E.Mohanraj**, S.Vanmathi, G.Santhosh, M.Srivignesh (2017), 'Virtual World', International Journal of Intellectual Advancements and Research in Engineering Computations, Volume 5, Issue 1.
2. **E.Mohanraj**, K.SubhaSurya, P.Sudha, K.Sarath Kumar(2016), 'Heart Disease Prediction using K Nearest Neighbour and K Means Clustering', International Journal of Advanced Engineering Research and Science, Volume 3, Issue 2.
3. **E.Mohanraj**, A.Sangavi, L.Sudhapriya, S.Suganya (2016), 'Rank-based Weighted Association Rule Mining from Gene Expression and Methylation Data', International Journal of Innovations in Engineering and Technology, Volume 6, Issue 3.
4. **Mohanraj, E & Duraiswamy, K** (2014), 'Secure QoS routing and communication using hierarchical group key management in MANET', Journal of Circuits, Systems, and Computers, vol.23, no.9, pp.1 - 15. (Anna University, Annexure I) (Impact Factor: 0.595). (**Scopus & Thomson Reuters indexed Journal**)
5. **Mohanraj, E & Santhiya, R** (2014), 'RB Multicasting Protocol in Ad-Hoc Networking', International Journal of Advanced & Innovative Research, vol.3, issue.2, pp.290-295.
6. **Mohanraj, E & Leela, D** (2013), 'Energy efficiency routing technique using two hop transmission in MANET', International Journal of Advanced and Innovative Research, vol.2, issue.2, ISSN: 2278-7844.
7. **Mohanraj, E & Duraiswamy, K** (2012), 'Enhancing security and QoS routing in mobile ad hoc networks', CIIT International Journal on Wireless Communication, vol.4, no.14, pp.832-836.
8. **Mohanraj, E & Duraiswamy, K** (2012), 'Routing based data security in mobile ad hoc network using group key management', Journal of Computer Science, vol.8, no.10, pp.1711-1717.(SJR 0.3) (**Scopus Indexed Journal**)

9. **Mohanraj, E** & Duraiswamy, K (2012), ‘Study of self assessing key distribution for enhancing security in MANET’, International Journal of Advanced Science Engineering and Technology, vol.1, issue 3, no.2, pp.11-15.
10. **Mohanraj, E** & Duraiswamy, K (2012), ‘Integrated security and QoS routing on data communication framework in mobile ad hoc networks’, European Journal of Scientific Research, vol.72, no.3, pp.383-393. (SJR 0.071)

### **International Conference papers**

1. **E.Mohanraj**, Deepika V, Karthikeyan N, Reka P, “Assurance of security and privacy requirements for cloud deployment models”, Proceedings of the 5<sup>th</sup> International Conference on Information Sciences & Renewable Energy Sources(ICISRES-2k19) at Selvam College of Technology, Namakkal on 7-8 March 2019.
2. **E.Mohanraj**, R.Dhineshkumar, P.Gayathri, A.Harigokulakrishnan, “An Ontology Mapping Protected Self Data Mapping in Cloud”, Proceedings of the 5<sup>th</sup> International Conference on Information Sciences & Renewable Energy Sources(ICISRES-2k19) at Selvam College of Technology, Namakkal on 7-8 March 2019.
3. **E.Mohanraj**, S.Nagaraj, “Enhanced Selective Encryption method for Bigdata sensing stream using one way hash chain algorithm”, Proceedings of the 4<sup>th</sup> IEEE International conference on Computing Communication and Automation (ICCCA 2018) at Galgotias University, Uttar Pradesh on December 14-15, 2018.
4. **E.Mohanraj**, S.Sangeetha, T.Saranyaa, M.Vivek, “Content Aware user Data sharing and Anonymous Authentication on Public Cloud”, Proceedings of the International Conference on Recent Innovations in Engineering, Technology and Management (ICRIETM-2018) at Nandha Engineering College on 23<sup>rd</sup> March 2018.
5. **E.Mohanraj**, N.Ishwarya, P.Arunandhi, T.Anusha, “Cloud Security using Privilege Separation Access Control”, Proceedings of the International Conference on Applied Science Engineering and Technology (ICASET-18) at Sengunthar College of Engineering on 16 - 17 March 2018.
6. **E.Mohanraj**, G.Santhosh, M.Srivignesh, S.Vanmathi, “Virtual World by using Artificial Intelligence”, Proceedings of the International Conference on Recent Innovations at Nandha Engineering College on 25<sup>th</sup> March 2017.
7. **E.Mohanraj**, M.Krishna priya, V.Nithya, S.Pradeepa, “Multitenant Workflow Scheduling in Cloud Computing Environment”, Proceedings of the International Conference on Scientific Research of Engineering and Technology (ICSRET 2k17) at Ranganathan Engineering College on 17<sup>th</sup> & 18<sup>th</sup> March 2017.
8. **E.Mohanraj**, M.Manikandan, “Examining Energy Consumption Of Data Transmission For TCP Download/Uploads”, Proceedings of the International Conference on Emerging Enhancements in Engineering and Technology at Indra Ganesan College of Engineering on 18<sup>th</sup> & 19<sup>th</sup> March 2016.

9. **E.Mohanraj**, M.Manikandan, “Examining Energy Consumption Of Data Transmission For TCP Download/Uploads”, Proceedings of the International Conference on Modeling, Simulation and Control at Karpagam College of Engineering on 15<sup>th</sup> & 16<sup>th</sup> October 2015.
10. **Mohanraj E**, Theivasigamani S, Renugadevi M, Udhayakumar C, “Analyze the Performance of Node-to-Node Delivery in Mobile Ad hoc Network using CBMT Protocol”, Proceedings of the International Conference on Computational Machine Analytics, Sri Subramanya College of Engineering and Technology, Palani, P.No 4, ICCMA’15 March 11<sup>th</sup> 2015.
11. **Mohanraj. E**, Ramya.T, Sabarinathan.T, Sathishkumar.M, “Automatised Toll Gate System using RFID” Proceedings of the International Research Conference on Innovative Engineering Skills:ACETIC2014, Aishwarya College of Engineering and Technology, Anthiyur held on 12<sup>th</sup> February 2014.
12. **Mohanraj, E & Santhiya, R**, “RB multicasting protocol in AdHoc networking”, Proceedings of the International conference on sustainable approaches for green computing,economy and environment, SAGCEE’13 held at Vinayaga Mission’s Kirupananda Variyar Engineering College, Salem 9<sup>th</sup> to 11<sup>th</sup> December 2013.
13. **Mohanraj, E & Duraiswamy, K**, “Modified Approach for Routing Based Data Security in MANET” Proceedings of the International Conference on Innovations in Communication, Information and Computing (ICICIC’13) held at Sasurie College of Engineering, Vijayamangalam, Tirupur during 9-11 January 2013.
14. **Mohanraj, E & Duraiswamy, K**, “Enhancing security and QoS routing using group self assessment key in mobile ad hoc networks”, International Conference on Advanced Technologies for Research & Product Development (ICATRPD-2012) held at Kathir College of Engineering, Coimbatore on 03-04 September 2012.
15. **Mohanraj, E & Saravanan, M**, “Broadcasting with Minimum Redundancy in Mobile Adhoc Network”, International Conference on Emerging Trends in Computer and Communication Technologies held at Maria College of Engineering and Technology, Marthandam on 16-17 February 2012.
16. **Mohanraj, E & Saravanan, M**, “Broadcasting with Minimum Redundancy in Mobile Adhoc Network”, Engineering Post Graduate Research Conference (ENGGPOS-2011) held at Karpagam University, Coimbatore on 19-20 December 2011.
17. **Mohanraj, E & Chandrajeya, P**, “Performance implications of decentralized QoS aware check pointing on large scale cluster systems” Proceedings of the International Conference on Computer Communication and Informatics (ICCCI-2011) held at Sri Shakthi Institute of Engineering and Technology, Coimbatore on 11-12 January 2011.
18. **Mohanraj, E & Gopi A S**, “Secured broadcasting method with battery life time and distance management”, Proceedings of the International Conference on Innovative Computing Technologies (ICICT-2010) held at M.Kumarasamy college of Engineering, Karur on 12-13 February 2010.

## **National Conference Papers**

1. **Mohanraj. E**, Anandh K., Kanchana. M, & Nagarajan. C, “Data Security in cluster MANET Using Multicast Authentication Based on Batch Signature”, National Conference on Advances in Computer and Networking, S.A. Engineering College, Chennai, 23 October 2013.
2. **Mohanraj. E**, “Route reputation leader election scheme for route diversion intrusion attacks in MANET”, National conference on Xtreme Engineering and Technological Advancements XETA-2013, Jayam College of Engineering and Technology, Dharmapuri during 19-20 April 2013.
3. **Mohanraj. E**, “Efficient Clusters communication over mobile Adhoc Network” National Conference on Information Computational Algorithms & their Applications, Selvam College of Technology, Namakkal during 17-18 February 2012.
4. **Mohanraj, E** & Gopi A S, “Secured broadcasting method with battery life time and distance management”, National Conference on Recent Trends in Advanced Computing, SNS College of Technology, Coimbatore on 6 October 2009.
5. **Mohanraj, E** & Dhanapriya G, “Learning to reduce the semantic gap in web image retrieval and annotation”, National Conference on Recent Trends in Advanced Computing, SNS College of Technology, Coimbatore on 6 October 2008.
6. **Mohanraj, E** & Suba K, “Packet scheduler for flows in multi-service packet networks”, National Conference on Emerging Trends in Advanced Computing, Sasurie College of Engineering, Vijayamangalam on 21 February 2008.
7. **Mohanraj, E** & Suba K, “Implementation of OCGRR Scheduling in distinguished services boundary switches for multi-service networks”, National Research Conference on Challenges & Innovations in Information Technology, Kongu Engineering College, Perundurai on 16 February 2008.

### **11. Courses Handled:**

1. User Interface Design
2. Mobile Computing
3. Fundamentals of Programming
4. Software Engineering
5. Database Management Systems
6. Information Security
7. Cryptography and Network Security
8. Object Oriented Analysis and Design
9. System Software
10. Foundation Skills in Integrated Product Development
11. Big Data
12. Multimedia Computing

### 13. Programming for Problem Solving

#### 12. Funding Proposals:

S.No.	Name of the Funding Agency	Nature of Proposal	Title	Status
1.	AICTE	STTP	Block Chain Technology & its Applications	Applied

#### 13. NPTEL Courses attended:

S.No.	Course ID	Course Name	Score	Certificate Type
1.	noc18_cs16	Cloud Computing	54%	Successfully Completed
2.	noc18_cs36	Database Management System	55%	Successfully Completed
3.	noc19_cs13	Data Science for Engineers	49%	Successfully Completed

#### 14. Summer / Winter Schools / Other Courses attended:

S.NO	INSTITUTION	COURSE TITLE	DURATION
1.	IIT Bombay (RC 1313 - KSRCT)	One day workshop on Python	22.06.2019
2.	K.S.Rangasamy College of Technology	One day seminar on "How to Write a Successful Project Proposal to Funding Agencies"	21.07.2018
3.	PSG Institute of Technology and Applied Research	Two days workshop on "Sales force Trail head"	15.06.2017 & 16.06.2017
4.	IIT Bombay (RC 1313 - KSRCT)	Four week AICTE approved FDP by IIT Bombay on - Use of ICT in Education for online and blended learning	02.05.2016 to 10.07.2016
5.	IIT Bombay (RC 1313 - KSRCT)	Two-Week ISTE Short Term Training Programme (STTP) on "Pedagogy for Effective use of ICT in Engineering Education"	05.01.2015 to 31.01.2015
6.	Sona College of Technology	Workshop on Database Design and Programming with SQL organized by Oracle Academy & ICTACT	08.12.2014 to 12.12.2014
7.	K.S.Rangasamy College of Technology	One day workshop on NPTEL organized by NPTEL, IIT Madras	09.08.2014
8.	IIT Bombay (RC 1313 - KSRCT)	Two-Week ISTE Main Workshop on "Computer Programming"	19.05.2014 to 06.07.2014
9.	K.S.Rangasamy College of Technology	Seminar on Software Project Management	24.08.2012
10.	MAM College of Engineering	Seminar on "Mind without Fear" organized by the Centre for University-Industry Collaboration, Anna University, Chennai	09.07.2012

11.	PSNA College of Engineering and Technology	Two days workshop on Orientation Programme for Placement Officers / Faculty Members organized by the Centre for University-Industry Collaboration, Anna University, Chennai	26.05.2012 & 27.05.2012
12.	K.S.Rangasamy College of Technology	Seminar on “IT Awareness Enhancement Program”	02.08.2011
13.	Bannari Amman Institute of Technology	National Seminar on Heuristic Optimization Techniques for Engineering and Research applications	24.09.2010 & 25.09.2010
14.	K.S.R. College of Engineering	One Day Workshop on QualNet	24.03.2009
15.	K.S.Rangasamy College of Arts and Science	Workshop on Train the Trainer Organized by Sutherland Global Services, Chennai.	16.10.2008 to 18.10.2008
16.	Sona College of Technology	Anna University sponsored FDP on “Software Engineering”	04.12.2007 to 16.12.2007

### 15. Industrial Training:

- Attended a two days “Train the Trainer Programme on Customer Relationship Management (CRM)” at Virtusa-Polaris, Chennai during 20 & 21 July 2017.
- Attended a 5 days workshop on “Problem Solving through C” using E-Box platform at Amphisoft Technologies, Coimbatore from 20.05.2019 to 24.05.2019.

### 16. Roles and Responsibilities:

- Served as one of the Placement Officer of K.S.Rangasamy College of Technology from March 2011 to June 2015.
- Actively involved in Tata Consultancy Services and Wipro Technologies Accreditation process for Placement.
- Actively involved in NBA Tier-I accreditation process in the department of Computer Science and Engineering.
- Actively involved in preparation of Principal’s Power Point Presentations of various NBA and NAAC accreditation processes.
- Actively involved in Annual day & Graduation day prizes, mementos and gold medal purchase activities.
- Co-ordinated Computer based online exams like GATE, IBPS, RRB, CMRL, JIPMER, AIIMS, etc. in association with TCS iON.
- Maintaining eAlumni Album software for every passing out batch in KSRCT.
- Course co-ordinator & Module co-ordinator for various subjects under OBE (Outcome Based Education).
- Project Mentor for PG scholars and UG students.
- Question paper setter for various Autonomous Institutions and Universities.
- Examiner in internal and external examinations under Anna University and other Autonomous Institutions.

- Reviewed Journals in Experimental & Theoretical Artificial Intelligence and Kuwait Journal of Science (KJS).
- Guiding Ph.D scholars under Anna University Chennai.
- Served as a Mentor for a batch of students for Smart India Hackathon 2017.
- Guided a project batch that won first prize for the project titled “Virtual World by using Artificial Intelligence” in “Project Exhibition-2017” held at K.S.Rangasamy College of Technology.
- Prepared Question Banks for the subjects Database Management Systems, Software Engineering, Fundamentals of Programming, System Software, Foundation Skills in Integrated Product Development, Big Data and Multimedia Computing.
- Acting as a Mentor for a batch of students for Smart India Hackathon 2019 for the project titled “Digital Kisan”.

#### 17. Tools used for Research:

NS-2 Simulator

#### 18. Google Scholar details:

<https://scholar.google.co.in/citations?user=3C72nIQAAAAJ&hl=en>

Citations: 8, h-index: 2

#### 19. Ph.D. Scholar Details:

S. No.	Reg.No	Name	Degree	Faculty	Reg.Session & Year	Supervisor	Status
1.	7086012255	Sumathi N	Ph.D.	Science	JUL 2008	Joint Supervisor	Completed (06.01.2017)
2.	7086012235	Geetha R	Ph.D.	Science	JUL 2008	Joint Supervisor	Completed (27.02.2017)
3.	17144691376	Nagaraj S	Ph.D.	ICE	JAN 2017	Supervisor	Confirmation Completed
4.	17234697513	Indumathi M	Ph.D.	ICE	JUL 2017	Supervisor	Course Work
5.	17244697507	Vimalananthi S	Ph.D.	ICE	JUL 2017	Supervisor	Course Work
6.	18144691162	Nagendran K	Ph.D.	ICE	JAN 2018	Supervisor	Course Work
7.	18244691374	Mekala R	Ph.D.	ICE	JAN 2018	Supervisor	Confirmation Completed
8.	18244697109	Poornima R	Ph.D.	ICE	JUL 2018	Supervisor	Course Work

#### 20. Achievements:

- Secured 100% result in Anna University & Autonomous End semester examinations for the following subjects:  
 CS 1015 -User Interface Design  
 40 CS 703 - Big Data and  
 40 CS E55 - Multimedia Computing



**21. Personal Details:**

Marital status : Married  
Age : 37 years  
Nationality : Indian  
Religion : Hindu  
Languages known : Tamil and English  
Contact Address : Dr.E.Mohanraj,  
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KSR Teachers Colony,  
Varapalayam, Tiruchengode,  
Namakkal Dt,  
Tamil Nadu, PIN: 637 215.

**22. References:**

Dr. A.Kumaravel,  
Principal,  
K.S.Rangasamy College of Technology,  
Tiruchengode, Namakkal District.  
Cell No.: 96261 99599.

Dr. K.Duraiswamy,  
Dean,  
K.S.Rangasamy College of Technology,  
Tiruchengode, Namakkal District.  
Cell No.: 9894911188.