

**National Institute of Technology, Tiruchirappalli:
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7. Employment Profile

Job Title	Employer	From	To
Associate Professor	Director, N.I.T.Trichy	Jan 2006	Till Date
Lecturer(SG)	Principal, R.E.C.Trichy	Oct 2001	Nov 5 2008
Lecturer(SL)	Principal, R.E.C.Trichy	Oct 1996	Oct 2001
Lecturer	Principal, R.E.C.Trichy	Oct 1991	Oct 1996

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	N.I.T., Trichy	2008		Wireless Networks
M.E.	Regional Engg. College,Trichy	1990	74.1% FIRST CLASS	Computer Science
B.E.(HONS.)	Govt.College Of Engg.,Tirunelveli	1987	81.4% FIRST CLASS WITH HONS.	Electronics and Communication Engg.
HSC	St.Ignatius Convent, Palayamkottai	1983	93.5% FIRST CLASS	Maths, Physics, Chemistry

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Head	Computer Science and Engineering Department	March 2010	March 2013
Head /C.S.E.D	Development of Computing Labs	July 2010	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Board of Studies Member	Sri Krishna Institute, Coimbatore, KSR Engg. College, Tiruchengode	2013	2014
External Doctoral Committee Member	Anna University, Guindy and other affiliated colleges	Since 2010	
PhD Viva Voce/ Thesis Examiner	Anna University, Guindy and other affiliated colleges	Since 2010	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2010	Received a Patent entitled, "A system for the Remote Control of Electrical Equipment", Patent number 244528.	Government of India
2013	Received an award BEST PROFESSOR IN COMPUTER ENGINEERING	DEWANG MEHTA Business School Award
2012,2015	Received THE BEST PAPER AWARD	International Conferences(EITES-2012, ICC 2015)

12. Fellowships - NIL

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

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13. Details of Academic Work

(i) Curriculum Development

Contributed to the B.Tech and M.Tech curriculum development

Course plan preparation and new evaluation models done for the following subjects:

- a. Human Computer Interaction
- b. Service Oriented Architecture and Web Security
- c. Computer Organization
- d. Advanced Programming Lab
- e. Design and analysis of Parallel algorithms

(ii) Courses taught at Postgraduate and Undergraduate levels (since the past 4 years)

List of subjects/labs	UG/PG
1. Computer Networks	UG
2. Design and analysis of Parallel algorithms	UG & PG
3. Distributed Systems	PG
4. Service Oriented Architecture and Web Security	PG
5. Human Computer Interaction	UG
6. Computer Organization	UG PG
7. Advanced Programming Lab	

(iii) Projects guided at Postgraduate level

Around 20 projects so far in the areas such as Congestion control, Routing, QoS parameters, Security related issues in Wireless Networks

(iv) Other contribution(s)

- a. DPEC member (M.Tech Project Committee) in 2008, 2010, 2012 and 2013.
- b. Conducted the M.S. and Ph.D. admissions (Entrance Exam + Interview for Ph.D.) for four consecutive times since 2010
- c. As the PAC Chairperson every semester since 2006.
- d. Involved in the purchase of equipments for the Hardware and software labs of the department under Plan fund in 2010, 2011, and 2012.

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14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Research Issues in Wireless Networks	NetCon Technologies India Pvt. Ltd., Coimbatore	2012		Ongoing
Analysis and Application of Methods and Parameter for Vehicular and moving object Identification using Image Processing Techniques	CETransE, NITT	2016		Ongoing

15. Number of PhDs guided: 4

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Narendran Rajagopalan	A study on issues in Media Access Control in certain Wireless Networks	Supervisor	2013
R.Mohan	A study of task assignment problems in Distributed Systems	Co-Supervisor	2014
B.Nithya	A Study on Contention and Congestion Control in Wireless Networks	Supervisor	2015
Sridevi.M	A Study on Effective Image Segmentation Techniques	Supervisor	2015

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
July 13 th to 16 th 2016, Taichung, Taiwan	International Symposium MobiSec 2016	International	Program Committee member	Soonchunhyang University, South Korea), Tunghai University, Taiwan	Taiching, Taiwan
Nov-23-15, 2016, Dubai	Intl. Conference ISCOMI 2016	International	Program Committee member	INNS INDIA	DUBAI
Aug 8 th -13 th , 2016	Workshop on Data Analytics Concepts and Techniques for Business Intelligence	National	Participant	NIT, Trichy	NIT, Trichy
Dec 12 th -23 rd 2011	Innovation Management and Technology Valorization for Scientists	National	Participant	DST	Administrative Staff College of India, Hyderabad

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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Introduction to Cryptology	National	30 th May to 4 th June 2016	Co- Convenor	NIT, Trichy
Workshop on Latex	National	5 th to 6 th July 2012	Co- Convenor	NIT, Trichy
Introduction To Research Methodologies	National, MHRD funded NMEICT	25 th June to 4 th July, 2012	Co- Convenor	NIT, Trichy
Workshop on Support Vector Machines	National	JUNE 8, 2012	Co- Convenor	NIT, Trichy
Thesis preparation using Latex	National	May 5 th to 6 th 2006	Co- Convenor	NIT, Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Data Structures	2002	Pavendar Bharathidasan College of Engineering and Technology, Trichy

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	ISTE	LM 12418, 1992
Member	IE	M-139915-7, 2009
Member	IEEE	2014-2015

20. Academic Foreign Visits - NIL

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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Mala, C. and M. Sridevi	Multilevel Threshold Selection for image segmentation using Soft Computing Techniques	Soft Computing, Springer	20	1793–1810.	2016	
N. Renugadevi C. Mala	Pruned nodes in ternary key tree during batch rekeying in group key agreement for cognitive radio ad hoc networks	Security and Communication Networks	8	4289-4307	2015	
Nithya, B. Mala, C. and Sivasankar, E	Channel Status based Sliding Contention Window (CS-SCW) algorithm: A Fuzzy Control Approach for Medium Access in Wireless	Soft Computing Springer		1-14	2015	

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	Networks					
C.Mala and B.Nithya	Performance Evaluation of IEEE 802.11 Contention Control Mechanisms using Polygonal Sequences	International Journal of Computer Systems, Science and Engineering, CRL publisher	29		2014	
C. Mala, P. S. Govindaram, and N.P.Gopalan	A Novel Distance Based Relocation Mechanism to Enhance the Performance of Proxy Cache in a Cellular Network	IAJIT	6	258-263	2009	
S. Umaa Mageswari, M. Sridevi, C. Mala	An Experimental Study and Analysis of Different Image Segmentation Techniques	Procedia Engineering, Elsevier	64	36-45	2013	
Narendran Rajagopalan, C. Mala	An efficient and dynamic backoff algorithm for IEEE 802.11 networks.	Int. J. Systems Assurance Engineering and Management	3	73-83	2013	
C. Mala, A. Gokul, Anand Babu, R. Kalyanasundaram, Narendran Rajagopalan	Route discovery in cellular networks using soft computing techniques.	Int. J. Advanced Intelligence Paradigms, Inderscience	3	45-58	2013	
Narendran Rajagopalan, C. Mala	Channel allocation scheme for cellular	Int. J. of Artificial Intelligence and Soft Computing	4	212 – 227	2014	

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	networks using evolutionary computing					
C.Mala , R.Shriram , Shashank Agrawal ,K.Geetha, Narendran Rajagopalan	Reliable caching-a novel approach to caching web pages	International Journal of the Computer, the Internet and Management	18	66-77	2010	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
N.P. Gopalan, C.Mala , Shriram R, Shashank Agarwal	Multicast Tree Computation for Group Communication in Mobile Networks using Optimization Techniques"	IEEE		ISHAUC	NITK	2006
N.P. Gopalan, C. Mala, Rakesh Kumar Nayudu, Dhaneel Kumar	A hybrid CAC scheme for integrated services in CDMA wireless access networks	IEEE		ISHAUC	NITK	2006
C.Mala, D.Sareen Kumar, N.P.Gopalan,et.al	A novel routing to improve QoS in mobile adhoc networks with mobility prediction	Macmillan Advanced Research series	28-35	ICICOT'07	MIT, Manipal	2007
K. Shyam Ravi Shanker N.P. Gopalan, and C. Mala	Human-Robot Coordination of Multi-Sized Fish-like Robots using wired communication	LNECS	536-541.	WCECS	University of California	2007
Narendran Rajagopalan and C.Mala	Analysis and comparative study of	Springer link	331-339.	CNSA		2010

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	different Backoff Algorithms with probability based Backoff Algorithm					
M.K. Thanuja and C.Mala	A Search Tool Using Genetic Algorithm	Springer (LNCS)	138-143	AIM		2011
Narendran Rajagopalan and C. Mala	Optimization of QoS Parameters for Channel Allocation in Cellular Networks using Soft Computing Techniques	AISC series Springer		SOCPROS		2011
Narendran Rajagopalan, Mala C	History Based Probabilistic Backoff Algorithm	Int Conf Proceedings		EITES		2012
B.Nithya, C.Mala and Vijay kumar B	Impact of contention window on Congestion control algorithms for Wireless adhoc networks	CS & IT series	159-170	WiMo		2012
M.Sridevi, C.Mala and S.Sandeep	Copy – move image forgery detection in a parallel environment” – International Workshop on Signal Image Processing and Multimedia	CS & IT series	19–29	SIPM		2012
N. Renugadevi C. Mala	Tree Based Group Key Agreement – A Survey for Cognitive Radio Mobile Ad Hoc	Springer International Publishing	85-94	ICACNI		2014

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V.Punitha, C.Mala	Dynamic Scheduling Algorithms for Dispatcher Unit on a Web Cluster	McGraw Hill Education (India)	1-10	ICC 2015		2015
Manipriya.S ; C. Mala ; Samson Mathew	Genetic Algorithm Based Efficient RSU Distribution to Estimate Travel Time for Vehicular Users	IEEE	30-34	ISCFI		2015
M.Sridevi, C.Mala et.al.	A Discrete Wavelet Transformation based fast and secure transmission of images for group communication	CCIS proceedings		MobiSec		2016
Manipriya.S ; C. Mala ; Samson Mathew	Real Time Multilevel Parallel Video Image Processing for VANET Infrastructure	ISBN proceedings		CCSN2016		2016

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Gopalan, N.P., Sivaselvan B., Mala, C	Object oriented Programming Using C++	PHI	2010	ISBN: 8120339231
C.Mala, Vikram S. , N.P.Gopalan, , Sandeep,S .	Selected topics in Communication Networks and Distributed Systems	World Scientific Press,(International Publication)	2010	ISBN 978-981-283-943-5, 981-283-943-7