

# National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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## Curriculum Vitae



### Brief Profile:

I was born on 6<sup>th</sup> August 1967 at Tiruchirappalli, TamilNadu. My native place is a village named Ariyamangalam at Tiruchirappalli. I under-graduated in Electrical and Electronics Engineering and subsequently Post-graduated in Computer Science and Engineering from Regional Engineering College, Tiruchirappalli, TamilNadu in the year 1990 and 1992 respectively. I worked as Faculty on contract basis in the departments of Computer Science Engineering and Electrical and Electronics Engineering during 1994-1999. In 1999, I joined as Lecturer in EEE Department. I completed my Ph.D. in the area of Differentiated Services from National Institute of Technology, Tiruchirappalli, TamilNadu in 2009. My area of interest are Computer Networking, Wireless Sensor Networks, Information Extraction and Web Services. My hobbies are reading books and browsing net.

1. Name Dr.S.Sudha
2. Designation: Associate Professor
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Email (Secondary) : ssudha.nitt@gmail.com
6. Field(s) of Specialization: Computer Networking, Wireless Sensor Networks, Web Services and Information Retrieval.

## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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### 7. Employment Profile

Job Title	Employer	From	To
Research Assistant & Research Associate	Principal, REC, Trichy	6.8.1990	25.9.1994
Faculty on contract basis (C.S.E. Dept.)	Principal, REC, Trichy	26.9.1994	27.6.1997
Lecturer on contract basis (E.E.E. Dept.)	Principal, REC, Trichy	28.6.1997	22.4.1999
Lecturer	Principal, REC, Trichy	23.4.1999	22.4.2004
Senior Lecturer	Principal, REC, Trichy	23.04.2004	June 2012
Associate Professor	Director, NITT	July 2012	Till date

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	NITT	2009		Computer Networks
M.E	RECT	1992	First Class	Computer Science and Engg.
B.E	RECT	1990	First class	Electrical and electronics Engg.
HSC	TamilNadu State Board HSC	1986	First Class	Maths, Physics, Chemistry and Biology
SSLC	TamilNadu State Board HSC	1984	First Class	Maths, Science and Social

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	Period
Class Committee Chairperson	EEE Department	2006, 2007, 2009 , 2010 ,
Convenor, Time Table Preparation	EEE Department	1999- 2004, 2009-2011
Convenor, Time Table Preparation	Institution- for all departments	1991- 1993
Helped in procurement of components and equipment's	EEE Department	1991- 1994
Faculty Incharge Procurement of	EEE Department	2010

## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Microprocessors, Micro-controllers and their Interface cards		
Ph.D and MS Admission Chairperson	EEE Department	1991-1994, 1997-2004, 2013-2015
Faculty Incharge of Curriculum and Syllabus revision	EEE Department	1998-2001, 2015
Department purchase –Common facility	EEE Department	2016

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
DC member	Anna University, Tiruchirappalli	2012	Till date
Ph.D. Examiner	Various universities	2015	Till date

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2014	Distinguished Alumni Award	NITT

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
<b>NIL</b>				

### 13. Details of Academic Work

- (i) Curriculum Development : UG, PG and Ph.D. Courses
- (ii) Courses taught at Postgraduate and Undergraduate levels : 7-9 courses
- (iii) Projects guided at Postgraduate level : 30 Nos
- (iv) Other contribution(s) ; involved in various departmental activities

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Vehicle parking Guidance system using sensors	CETransE	2016	2019	Ongoing
Information Extraction	BHEL, Trichy (Consultancy project)	2010	2015	Completed

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Presently Guiding (5 Nos)			

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
21-04- 95 to 22-04-95	Workshop on Software Engineering	National	Participant	P.S.G. College , Coimbatore	TamilNadu, India
21-01-02 to 02-02-02	High Speed Networks	National	Participant	Anna University Chennai,	TamilNadu India
02-12-02 to 13-12-02	Architecture, programming and Appli'ns of Digital Signal Processors	National	Participant	Regional Engineering College	Tiruchirappalli
22-1-04 to 23-1-04	National Workshop on Communication Protocol for Power System Automation	National	Participant	CPRI, Bangalore,	Karnataka, India
20- 7- 05 to 22- 7- 05	Genetic Algorithms for Engineering Optimization	International	Participant	Indian Institute of Technology, Kanpur	Uttar Pradesh, India
15-04-06	Environmental issues and Housekeeping	National	Participant	National Institute of Technology	Tiruchirappalli

**National Institute of Technology, Tiruchirappalli:  
Perfoma for CV of Faculty/ Staff Members**

12-6-06 to 16-6-06	Micro- controllers and their Applications	National	Participant	National Institute of Technical Teachers Training and Research Institute,	Chennai
22-12-06	Research directions in Information Technology and Applications	Natioonal	Participant	National Institute of Technology,	Tiruchirappalli
30-03-07 & 31-03-07	Research Challenges in Wireless and Optical Communication Networks	National	Participant	Dept. of ECE, Anna University	Chennai
24-03-08 to 28-03-08	Capacity Building of women managers in Higher Education	National	Participant	Bharathidasan University,	Tiruchirappllai
29-04-09	One day National Workshop on Patent Information	National	Participant	Bharathidasan University, NIT-Trichy, TNSCST	Chennai.
29-04-11 to 30-04-11	Principles of Software Testing	National	Participant	CSE Dept., Anna University.	Chennai
09-05-11 to 21-05-11	Current Trends in Information Retrieval with Research Perspective	National	Participant	AICTE sponsored Staff Development Programme,	PSG College of TechnologyCoi mbatore.
06-12-13 to 07-12-13	Recent Trends in Wireless Sensor Networks	National	Participant	AICTE sponsored National Seminar	Avinashilingam University, Coimbatore.

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

10-10-14 to 11-10-14	Workshop on Video Analytics	National	Participant	AU-KBC Research Centre, Dept. of ECE. & IT(MIT Campus), Anna University	Chennai
16-10-15 to 17-10-15	Medical Devices and the Internet of Things (IoT)	Internatio nal	Participant	IEEE Standards Association	Kristu Jayanti College, Hennur Rd, Bangalore
28-08-16 to 31-08- 2016	Advanced Sensors and Actuators	National	Participant	IIT Kanpur	Uttar Pradesh, Kanpur

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
Workshop on C++ programming for PG students under TEQIP- Tribal Development	Local	30 <sup>th</sup> November and 1 <sup>st</sup> December 2006.	Co-ordinator	NIT, Tiruchirappalli
Workshop on Personality Development for UG students under TEQIP- Tribal Development	Local	19 <sup>th</sup> - 20 <sup>th</sup> January 2007.	Co- Coordinator	NIT, Tiruchirappalli
Workshop on Microprocessor, Micro- controller and their applications for Final year students and Teachers of Polytechnic Colleges under TEQIP- Community Service.	Local	14 <sup>th</sup> – 15 <sup>th</sup> December 2007	Co- Coordinator	NIT, Tiruchirappalli
Workshop on Fundamentals of Computers conducted	Local	2007	Resource person	NIT, Tiruchirappalli

**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

under TEQIP in EEE				
Workshop on Power Electronics, Renewable energy Conversion Systems conducted under MHRD-AICTE in EEE	Local	June 2008.	Resource Person	NIT, Tiruchirappalli
two week ISTE Workshop on Introduction to Research Methodologies Conducted by IIT Bombay, Mumbai	National	25 <sup>th</sup> June-4 <sup>th</sup> July, 2012	Co-ordinator	NIT, Tiruchirappalli
One day Seminar on Support Vector Machine and its Applications under self support	Local	8 <sup>th</sup> June 2012	Co-ordinator	NIT, Tiruchirappalli
Two day Workshop on Technical paper preparation using Latex software under self support	Local	19 <sup>th</sup> and 20 <sup>th</sup> June 2012	Co-ordinator	NIT, Tiruchirappalli
A five day Workshop on Wireless Sensor Networks and its Applications under TEQIP-II	National	12 <sup>th</sup> - 16 <sup>th</sup> May 2014	Co-ordinator	NIT, Tiruchirappalli
One day Workshop on Wireless Sensor Network- Hardware and Software under TEQIP-II	Local	12 <sup>th</sup> August 2014	Co-ordinator	NIT, Tiruchirappalli
Workshop on IoT using Aurdino	Local	13 <sup>th</sup> & 14 <sup>th</sup> November 2015	Co-ordinator	NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization
OSI Architecture – Networking	2005	Seethalakshmi Ramaswami College for Women, Tiruchirappalli
Networking protocols	2011	Kongunadu college, Namkkal
Practical demonstration of WSN and applications	2015	Kongu Engineering College, Salem

19. Membership of Learned Societies

Type of Membership (Ordinary	Organization	Membership No. with
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**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

Member/ Honorary Member / Life Member )		date
Life Member	I.S.T.E.	2001
Life member	C.S.I	2006
Member	Indian Institute of Engineers	2009

**20. Academic Foreign Visits**

Country	Duration of Visit	Programme
Singapore	23-04-2007 to 23-05-2007	Training at Communication & Internet Research Lab and Network lab
Malaysia	May 13-15, 2008	International Conference on Computer & Communication Engineering (ICCCE 08)

**21. Publications**

**(A) Referred Journals**

Author(s)	Title of Paper	Journal	Volume (No.)	Page Number	Year	Impact factor
Chithra D Gracia, S.Sudha	ART2 Clustering of Multiple web objects for qualitative web Prefetching	Journal of Applied Artificial Intelligence, Taylor and Francis	Vol.30, Issue 5	pp.475-493,	2016	0.606
Chithra D Gracia, S.Sudha	Adaptive clustering of embedded multiple web objects for efficient group prefetching	Journal for Science and Engineering, Springer		pp 1-10	2016	0.728
Hemavathi.N, Sudha S	A Novel Regression based Clustering Technique for Wireless Sensor Networks	Journal of Wireless Personal Communications, Springer.			2016	0.701
K.Rajbabu, S.Sudha	A novel rule-centric object oriented approach for document generation	Journal of Computers in Industry, Elsevier.	Vol.65, Issue 2	pp.235-246	2014	1.685
S.Sudha, N.Ammasaiyand	An aggregate marker for bandwidth fairness in DiffServ.	Journal of Network and Computer Applications, Elsevier.	Vol.35, Issue 6	pp.1973 - 1978	2012	2.331
S.Sudha, N.Ammasaiyand	A new TSW Based Marker for Bandwidth Fairness between Aggregates in Diffserv.	International Journal of Computer Sciences and Engineering Systems.	Vol No 4 Issue 3.	pp.235-241	2010	
S.Sudha, N.Ammasaiyand	A new Token Allocation Algorithm for TCP Traffic in Diffserv Network	International Journal of the Computer, the Internet and Management.	Vol.16, Issue 3.	pp.41-47	2008	



**National Institute of Technology, Tiruchirappalli:**  
**Performa for CV of Faculty/ Staff Members**

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**(B) Conferences/Workshops/Symposia Proceedings**

<b>Author(s)</b>	<b>Title of Abstract/ Paper</b>	<b>Title of the Proceedings</b>	<b>Page Nos</b>	<b>Conferen ce Theme</b>	<b>Venue</b>	<b>Year</b>
Sathish Kumar.A, S.Sudha	Design of Wireless Sensor Network based fuzzy logic controller for a Cold Storage System.	Proceeding Of 7 <sup>th</sup> Power India International Conference.	Yet to be publis hed	Computer Networks	Bikaner, Rajasthan.	2016
D.Uma Maheswari, S.Sudha	Influence of Cluster Head Position in the Lifetime of Wireless Sensor Network.	Proceedings of third IEEE Conference on Next Generation Computing Technologies	Yet to be publis hed	Wireless Networks	Dehradun	2016
Meenalochani Manickam, S.Sudha,	Fuzzy based Estimation of Received Signal Strength in a Wireless Sensor Network	Proceedings of the Third International Symposium on Women in Computing and Informatics	pp.62 4-628	Soft Computin g	Kerala	2015
Chithra D Gracia, S.Sudha	Ensemble Prefetching Through Classification Using Support Vector Machine	Proceedings of the International Conference on Intelligent Systems Technologies and Applications.	pp.26 1-273	Web Services	Tanjore	2015
Shobhit Kumar Nagpal, S. Sudha	Two-Level Fuzzy based Fire Prediction Scheme using Wireless Sensor Network	Proceedings of IEEE International Conference on Advances in Computing and Communication	pp.57- 62	Computer Networks	Tanjore	2015
Shobhit Kumar Nagpal, S. Sudha.	Design and Development of a Sensor Node to Monitor and Detect Change in Internal Parameters of a Cold Storage System	Proceedings of Global Conference on Communication Technologies (GCCT)	pp.74 5-748	Wireless Networks	Nagerkoil	2015
Hemavathi.N, Sudha S.	Hardware Realization of Fuzzy based Cluster Head Selection in Wireless Sensor Networks	International Conference on Electronic Design, Computer Networks & Automated Verification		Wireless Sensor Networks	Megalaya.	2015

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

Hemavathi.N, Sudha S	A Fuzzy Based Predictive Cluster Head Selection Scheme for Wireless Sensor Networks	Proceedings of the 8 <sup>th</sup> International Conference on Sensing and Technology	pp. 560-566.	Wireless Sensor Networks	Liverpool, UK	2014
Gaurav Kumar, Himanshu Mehra, Akshat R Seth, Pooja Radhakrishnan, Hemavathi. N and Sudha. S	An Hybrid Clustering Algorithm for Optimal Clusters in Wireless Sensor Networks	Proceedings on IEEE Students' Conference on Electrical, Electronics and Computer Science	pp 1-6	Computer Networks	India	2014
K. Rajbabu, S.Sudha	DAG Based Feature Additive XML Schema Generation For Unstructured Text	Proceedings of IEEE International Conference on Cyber enabled Distributed Computing and Knowledge Discovery	pp.117-124	Web Services	China	2013
Chithra.D.Gracia, S.Sudha	MePPM-Memory Efficient Prediction by Partial Match Model for Web Prefetching	Proceedings of IEEE Third International Advanced Computing Conference	pp. 729-733	Web Services	Ghaziabad, UP	2013
Arun Nagendran, V.Kartick, V.Sayee Ram, SenthilKumar, S.Sudha	Study on the effect of CBR on packet marking in assured forwarding	Proceedings of IEEE Student Conference on Research and Development	pp. 59-62.	Computer Networks	Malaysia	2010
S.Sudha, N.Ammasaignonden	A Three Colour Per Flow Marker for DiffServ Networks	Proceedings of IEEE International Conference on Signal Processing, Communication and Networking	pp. 762-765	Computer Networks	Chennai	2008
S.Sudha, B.Srinivasa Rao, N.Ammasaignonden	A Modified I2TSWTCM to improve bandwidth fairness in DiffServ	Proceedings of IEEE Region 10 Colloquium and the Third ICIS	Pp. 1-4.	Computer Networks	Kharaghpur	2008
S.Sudha, N.Ammasaignonden	A Modified approach for fair bandwidth allocation between TCP and UDP Traffic in	Proceedings of the International Conference on Computer and Communication Engineering	pp. 788-791.	Computer Networks	Malaysia	2008

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

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	DiffServ Network					
S.Sudha, Srihari Maddipati, N.Ammasaignou den	A new adaptive marker for bandwidth fairness between TCP and UDP traffic in DiffServ	Proceedings of IEEE Region 10 Conference.	pp. 1-5	Computer Networks	Hyderabad	2008
S.Sudha, N.Ammasaignou den M.Subbiah,	A Thyristor Controller for power factor improvement of Wind Farm induction generators	Proceedings of 4 <sup>th</sup> International Conference on Power Electronics and Automation		Electrical	Mumbai	1999

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
<b>NIL</b>				