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

Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Received MSc. in Mathematics from Madras University in the year 1978 and received PhD in Applied Mathematics from IISc. (Bangalore) in 1983 and Joined ISRO as Scientist B and worked in classified Projects for a while(6 months).

Joined REC (Now NIT) and is serving it for the past 33 years.

Wrote 5 text books published from Prentice Hall India and has 60 international and more than 100 conference papers.

Reviewer for IEEE and Elsevier journals.

Supervised and completed 14 PhD students in various areas. Three students are ongoing.

Awarded with Eminent Engineer award from Institution of Engineers , India in Feb 2016 in computer Division.

Has a Patent for wireless underwater Robot design.

Has executed 2 projects for 15 lakhs .

1. Name   :   N. P.GOPALAN
2. Designation   :   Professor
3. Office Address :   Dept of Computer Applications,
                      NIT,Trichirappalli-620015.
4. Telephone (Direct) (Optional):
                      Telephone : 0431 2503733
                      Mobile (Optional):   9443416970
5. Email (Primary)   : npgopalan@nitt.edu
   Email (Secondary) : npgopalan@yahoo.com

6. Field(s) of Specialization   : Web Technology,   Data mining, Distributed Computing, Theoretical Computer Science.

7.Employment Profile

Job Title	Employer	From	To
Professor	NIT (REC) Tiruchirappalli-15	01-04-2005	Till date
Assistant Professor	REC (NIT) Tiruchirappalli-15	19-05-1992	31-03-2005
Lecturer	REC (NIT) Tiruchirappalli-15	19-12-1983	18-05-1992

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

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	IISc (Bangalore)	1983	-----	Applied Mathematics
ME	REC Trichy	1993	Distinction	Computer Science
MSc	Madras University	1978	Outstanding Grade	Mathematics
BSc	Madras University	1976	University 4th Rank	Mathematics

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Head (i/c),	Department of Computer Science and Engineering	Six Months in 1993	
Head (i/c),	Department of Computer Science and Engineering	September 2003	December 2005
Head (i/c),	Department of Computer Applications	A Semester in 2005	
Convener of Hostels	REC Tiruchirapalli	2004	2005
Staff Adviser	MCA and MSc (OR&CA) Students.	several times	
Class Committees	CA and CSE	several times	
warden	**Topaz** and **Pearl** Hostels	3 Years	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Evaluator	NBA	2003	Till date
Associate Professor	Information systems, Chaplin College, Dubai.	Aug 2001	Dec 2001
Associate Professor	Department of Computer Science and Technology, Sharjah College, Sharjah, United Arab Emirates.	Jan 2000	July 2001

	(Sharjah College: Affiliated to the University of Houston, Clearlake. Texas USA)		

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2016	Eminent Engineer	Institution of Engineers
2015	Distinguished Alumni Award	NIT - Tiruchirappalli

12. Fellowships

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

13. Details of Academic Work
   (i) Curriculum Development

   (ii) Courses taught at Postgraduate and Undergraduate levels
- Computer Graphics
- Operating Systems
- Programming Languages
- System Analysis and Design
- Automata and Formal languages
- compiler design
- Artificial Intelligence and Expert System
- Combinatorics & Graph Theory.
- Mathematical foundations of Computer Science
- Database Management Systems
- Information technology
- Business Information systems
- Software Engineering
- Probability and statistics
- Data Structures and Algorithms.
- Personal Software Processing.
- Distributed computing.
- Computer Networks

   (iii) Projects guided at Postgraduate level

   Number of P.G. Projects guided: 57

   Number of P.G. Projects guiding: 7

(iv) Other contribution(s)

a) **PATENT:**

Sl.No	PATENT
1.	C.Mala, Dhaneel Kumar, Shyam Ravi Shanker, N.P.Gopalan, received a Patent entitled, "A system for the Remote Control of Electrical Equipment", **Patent number 244528** in December 2010.

b) **Social activity: Organized Gujarat earth quake relief fund collections in 2001 in UAE.**

c) **Involvement in Journals:**
   (i) Reviewer for:

   - Bulletin of Mathematics Biology (USA).(**Impact Factor(IF):1.3**)
   - Journal of Mathematics Bio science (USA)(**IF:1.2**)
   - Computer communications(Elsevier)(**IF:0.5**)
   - Electronics and Telecommunications Research Institute(korea**)(IF:1.67)**

   (ii) Associate Editor for -International Journal of Design Principles and Practices (UK)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Data Warehousing, Mining and Visualization Laboratory	MHRD Reference Number: DPAD/MHRD Projects/2003		2003	Completed
Research Issues in Wireless Networks	NetCon Technologies India Pvt. Ltd., Coimbatore	12.09.12	-	ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
B.Vijayakumar*	**Formulation of Algorithms for Distributed Query Optimization in Relational Databases and Implementation using Client-Server Architecture**	Supervisor	**August, 2001**
K.Nagarajan	**Fault tolerance in high performance computing**	Supervisor	**June, 2007**
K.Batri	**Effective selection of retrieval schemes for data fusion in information retrieval**	Supervisor	**January, 2008**
B.Siva selvan	**Efficient frequent temporal pattern mining algorithms for video association mining**	Supervisor	**May, 2008**
G.Sumathi	**Job scheduling and monitoring in heterogeneous computational grids**	Supervisor	**July, 2008**
C.Mala	**Studies on the techniques for performance enhancement in wireless networks**	Supervisor	**August, 2008**
S.Mary saira bhanu	**A study on scheduling issues in grid environment**	Supervisor	**February, 2009**
J.Akilandeswari	**Design and analysis of architectural frameworks for an intelligent web crawler**	Supervisor	**May, 2009**
B.Sathiyabhama	**Mining gene expression data using clustering techniques**	Supervisor	**May, 2009**
R.Mohan	**Task assignment in Distributed Environment**	Supervisor	**April 2015**
Arthur.A.Shaw	**Finding Frequent Trajectories of Dynamic Objects**	Supervisor	**March 2015**
S.Suresh	**Scheduling and Replication Enhancements in Shared Hadoop Cloud Environments**	Supervisor	**Aril 2015**

PhD Ongoing : 3

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
December 27-30, 2005	Workshop	International	Participant	IIT Kharagpur	Kharagpur
December, 8-9, 2005	Workshop	National	Participant	IIT Madras	Madras
February 1-2, 2008	Workshop	National	Participant	NIT Trichy	Trichy
March 13-17, 2007	Short Term Program	National	Participant	NIT Trichy	Trichy

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
Thesis Preparation Using LATEX Software	National	October 6-7, 2008	Convenor	NIT Tiruchirapalli
Technical Paper Preparation Using LATEX Software	National	June 19-20, 2012	Convenor	NIT Tiruchirapalli
Network Protocol Engineering	National	Decemeber 19-20, 2005	Convenor	NIT Surathkal
Internet Technologies and Tools	National	May 14-15, 2008	Convenor	NIT Tiruchirapalli
Research Methodologies	International	June 28-July 08, 2012	Convenor	NIT Tiruchirapalli
One Day Seminar on Support Vector Machines	National	June 8 ,2012	Convenor	NIT Tiruchirapalli
Emerging Trends in Cloud computing	DRDO National	September 12-13,2012	Lectured	Anna University

18. Invited Talks delivered

Topic	Date	Inviting Organization
Thesis Preparation Using LATEX Software	October 6-7, 2008	NIT Tiruchirapalli

Technical Paper Preparation Using LATEX Software	June 19-20, 2012	NIT Tiruchirapalli
Network Protocol Engineering	Decemeber 19-20, 2005	NIT Surathkal
Internet Technologies and Tools	May 14-15, 2008	NIT Tiruchirapalli
Research Methodologies	June 28-July 08, 2012	NIT Tiruchirapalli
One Day Seminar on Support Vector Machines	June 8 ,2012	NIT Tiruchirapalli
Emerging Trends in Cloud computing	September 12-13,2012	Anna University

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	**Member of ISTE**	**No: LM12434**
Life Member	**Fellow of Institution of Engineers**	**No: F 1145114**

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

 (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor (Optional)
Mala Chelliah, Siddhartha Sankaran, Shishir Prasad, NP Gopalan and Balasubramanian Sivaselvan	Routing for Wireless Mesh Networks with Multiple Constraints Using Fuzzy Logic	*IAJIT*	9	1	2012	
Krishnan Batri, Veerasamy Murugesh and NP Gopalan,	Effect of Weight Assignment in Data Fusion Based Information Retrieval	IAJIT	8	4	2011	

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	3	2009	
N.P.Gopalan and K.Batri	Effect of Filter Size on Fusion Function in Information Retrieval	IAJIT	5	2	2008	
S. Mary Saira Bhanu and N. P. Gopalan	A Hyper-Heuristic Approach for Efficient Resources Scheduling in Grid	International journal of Computers	3	3	2008	
S. Mary Saira Bhanu and N. P. Gopalan	Host based intrusion detection for enforcing kernel level security in Desktop grids	*Journal of Current Sciences*	10	425-430	2007	
SivaSelvan B. and Gopalan N.P	Efficient Algorithms for Video Association Mining	Springer-Verlog	4509	250-260	2009	
Murugesan .K, Gopalan N.P. and Devarajan Gopalan,	Error free Butcher Algorithms for linear Electrical circuits	*ETRI journal*	27	2	2005	
Gopalan N.P, Akilandeswari J	A Web Mining System using Reinforcement Learning for scalable Web search with Distributed Fault-tolerant Multi-agents	*WSEAS Transactions on Computers*	4	1633-1640	2005	
Gopalan N.P and Nagarajan K	Self-Refined Fault Tolerance in HPC using Dynamic Dependent Process Groups	Springer-Verlog	3741	153-158	2005	
Gopalan N.P and Ponnalagarsamy R	Numerical study on steady state three-dimensional atmospheric diffusion of sulfur dioxide and sulfate dispersion with non-linear kinetics	In *Comp. Fluid Dynamics*	1	339-349	1993	
Gopalan N.P and Ponnalagarsamy R	Investigation on laminar flow of a suspension in	In *International Journal of*	30	631-644	1992	

	corrugated straight tubes	*Engineering Scienc*				
Gopalan N.P	Laminar Flow of a Suspension in a Curved Pipe with Varying Curvature	*International Journal of Engineering Science*	23	621-632	1985	
Gopalan N.P	On the unsteady flow of a fairly concentrated suspension due to contracting or expanding walls of a tube	International Journal of Engineering Science	22	617-626	1984	
Gopalan N.P	Unsteady flow of dilute suspension in a semi-infinite contracting or expanding pipe	International Journal of Engineering Science	4	327-344	1983	
Gopalan N.P	Pulsatile blood flow in a rigid pulmonary alveolar sheet with porous walls". *Bulletin of Mathematical Biology*	*Bulletin of Mathematical Biology*	43	563-577	1981	
Arthur.A.Shaw and N P Gopalan	Frequent Pattern Mining of Trajectory Coordinates using Apriori Algorithm	*International Journal of Computer Applications*	22	1-7	2011	
Arthur A. Shaw and N.P. Gopalan	Finding Frequently Occurring Paths of Flying Objects Using FP-Tree Approach	*International Journal of Data Mining Knowledge Engineering*			2011	
S.Venkatasubramanian and N.P.Gopalan	A Quality Of Service Architecture For Resource Provisioning And Rate Control In Mobile Ad Hoc Networks	*International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC)*	1		2010	
S.Venkatasubramanian and N.P.Gopalan	A Flow Monitoring based Distributed Defence Technique for Reduction of	*International Journal of Computer Application*	21	7-11	2010	

	Quality Attacks in MANET					
S.Venkatasubramanian and N.P.Gopalan	A QoS-Based Robust Multipath Routing Protocol for Mobile Adhoc Networks	*IACSIT International Journal of Engineering and Technology*	1	5	2009	
J. Akilandeswari, N. P. Gopalan	An Architectural Framework of a Personalized Web Crawler based on User Interests	INFOCOMP Journal of Computer Science	8	81-89	2009	
J. Akilandeswari, N. P. Gopalan	Multi-level Frontier based Topic-specific Crawler Design with Improved URL Ordering	Computer and Information Science Journal	1	99-106	2008	
C. Mala, Krishna Achari and N.P. Gopalan	Modified on Demand Utility based routing with ULE-NE for HMANETs	*ANIJMIT*			2008	
G. Sumathi and N.P. Gopalan	Global and Local Scheduling System for Heterogeneous Grid Environments	*International Journal of Computer, Mathematical Sciences and Applications*	2	57-66	2008	
G. Sumathi and N.P. Gopalan	Computational Power and Level of Parallelism based Scheduling for Heterogeneous Grid Environments	*International Journal of Computer Sciences and Engineering Systems*	2		2008	
C. Mala, K. Shyam Ravi Shanker and N.P. Gopalan	Deploying of Robots in Hazardous Situation Using Wired and Wireless Communication	*International Journal of Design Principles and Practices: An International Journal*	1		2007	
G. Sumathi and N.P.	Scheduling and Job	*Internationa*	1	63-70	2007	

Gopalan	Monitoring System for Heterogeneous Grid Environments	*l Journal of Information Processing*				
Gopalan N.P. and Batri K	Adaptive Selection of Top m Retrieval Strategies for Data Fusion in Information Retrieval	*International Journal of Soft Computing*	1	11-16	2007	
Senthil Kumar J, Rajamanickam G.V, Samathanam G.J and Gopalan N.P	Quantification of National Financial Resources Devoted to R&D in Science and Technology from Higher Education Sector	*University News*	45	11-18	2005	
S. Mary Saira Bhanu, S. Radha and N. P. Gopalan	Enhancement of Remote memory paging using Prefetching in Grid	*Journal of the CSI*	37		2007	
B.Sathiybhama, N.P. Gopalan	Enhanced Correlation Search Technique for Clustering Cancer Gene Expression data	WSEAS Transactions on Information Science and Applications	3	2477-2484	2006	
SivaSelvan B. and Gopalan N.P	An Efficient Frequent Temporal Pattern (EFTP) Mining Algorithm	*Information Technology Journal*	6	1043-1047	2006	
Gopalan N.P and Nagarajan K	Load Balancing in Clusters Using Optimal Resource Set of Nodes	*Journal of Computer Science*	1	38-44	2005	
Ramachandran.S, David S. Bree and Gopalan N.P	Learning Action Selection in Autonomous Agents	*Journal of intelligent Systems*	3		2003	
Vijayakumar B and Gopalan N.P	A Resource Broker for Optimal Site and Query Scheduling in a Distributed Relational Database System	ACM SIGMAD		194-200	2000	
Gopalan N.P	Pressure distribution in peristaltic transport of fluids with an inserted catheter - A model of	*International Journal on Pure Applied Mathematic*	15	657-664	1984	

	urometrogram	*s*				
Gopalan N.P	Substrate concentrations in krogh's tissue cylinder Exhibiting first order kinetics	*Indian Journal of Pure and Applied Mathematics*	15	195-102	1984	
Gopalan N.P	Flow of a fairly concentrated suspension in a semi infinite contracting or expanding pipe	*Lett.Appl. And Engg Sci.*	22	617-625	1984	
Gopalan N.P	Some numerical studies on air flow over mountains" Technical report under the project, "The Satellite Study of the Himalayan Mountain Waves	The Satellite Study of the Himalayan Mountain Waves			1983	
K. Shyam Ravi Shanker, C. Mala and N.P. Gopalan	Human-Robot Coordination of Multi-Sized Fish-like Robots in Shallow Water Using Wired Communication	Intelligent Unmanned Robotic Society Journal of Unmanned Robotic Vehicles & Intelligent System	1	86-91	2007	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
B.Devendar Rao, B.Sathiyabhama, J.Akilandeswari and N.P. Gopalan,	Actionable Knowledge Discovery for Clinical Decision Support Systems .	IEEE and CSI sponsored National Conference on Computational Intelligence	130-136	Security and Systems	NAC-CISS11	2011
H. Swathi, B. Sathiyabhama, and	Gene Expression	Proc. National Conference On	253-260	Proc. National Conference	NAC-CISS 2009	2009

N.P. Gopalan	Data Knowledge Discovery using Global and Local Clustering ,	Innovative Computational Intelligence and Security Systems		On Innovative Computational Intelligence and Security Systems		
S. Rajalakshmi, S. Mary Saira Bhanu and N. P. Gopalan,	GA based Approach for Scheduling in Data Grid Environment ,	National Conference on Software Engineering and Applications	69-73	CODECLAVE 8.1(2008)		2008
G. Selvakumar, S. Mary Saira Bhanu and N. P. Gopalan,	Grid Resource Discovery using Randomized Algorithm .	National Conference on Software Engineering and Applications	74-78	CODECLAVE 8.1(2008)		2008
MurshidhaTaj G, Sathiybhama. B and Gopalan. N,P,	A Novel Approach for Mining Time Series Gene Expression Data using Modified Correlation Search Technique .	National Conference on Innovative Computational Intelligence and Security Systems	240-246	NAC-CISS	SONA ENGG COLLEGE SALEM	2007
6. Shanmugarathinam G, Gopalan N.P and Ravichandran K.S,	Analysis of an Adaptive Cache Retrieval Scheme in a Mobile Environment	3rdInternational conference ObCom-2006		ObCom-2006	VELLORE VIT	2006
7. S. Radha, S. Mary Saira Bhanu and N. P. Gopalan,	Adaptive Resource Allocation for jobs in Grid .	NITAC 2006 National Conference on Issues and Trends in Advanced Computing	19-20	NITAC 2006		2006
8. Mohammad Imran Shaik, S. Mary Saira Bhanu and N. P. Gopalan,	Decentralized Grid Resource Discovery with Matchmakers .	Decentralized Grid Resource Discovery with Matchmakers	19-20	NITAC 2006		2006
9. B.Sathiybhama, N.P. Gopalan,	Clustering Gene	Proc. International				2006

	Expression Data Using Enhanced Correlation Search Technique ,	Conference on WSEAS Data mining and modeling				
10. Gopalan N.P. and Sathiybhama. B,	Scalable Bio clustering Gene Expression Data using Genetic Enhanced k-means Algorithm	National Conference on High Performance Computing	477-488		TIRUNELV ELI	2006
11. Gopalan N.P and Nagarajan K,	Decomposition of Sequential Programming and Performance Analysis in Grid and Cluster Environment .	Proceedings of 19th National Convention of Computer Engineers	87-94		KERELA	2005
12. Gopalan N.P and Nagarajan K,	Non-Blocking Dynamic Process Migration using MPI .	Proceedings of National Conference on Analysis of Computer Algorithms	125-130		Annamalai University	2005
13. Gopalan N.P and Nagarajan K,	Consistency of Distributed System with Active Initiator Process without Useless Checkpoints	Proceedings of First National Conference on Recent Trends in Networking and Distributed Computing (NCND05)	283-292		Pavendar Barathidasa n College of Engg. and Tech, Tiruchirapp alli	2005
14. Gopalan N.P and Nagarajan K,	Eliminating useless checkpoints in the distributed system with active initiator process .	National level conference DCN 2005,		DCN 2005	Tagore Engg. College, Chenna	2005
15. N. P. Gopalan and Akilandeswari J,	Multi-agent web Mining system for	Proceedings of National conference on	1-6	Vision 2005	G.C.E Tirunelveli	2005

	scalable Web search	High Performance Computing				
16. Gopalan N.P, Akilandeswari J and Gabriel S.S,	Effectively finding the relevant pages from the World Wide Web .	Proceedings of National conference on Computing, Communication , VLSI and Telemedicine		NC3VT	G.C.E Salem	2004
17. Vijayakumar B and Gopalan N.P,	A Branch and Bound Algorithm for Allocation in a Distributed Relational Data Base	Proceedings of the national conference on Recent Trends in DBMS Concepts and Practice	113-119		N.M.A.M. Institute of Technology , Nittie, India	2002
18. Gopalan N.P and Vijayakumar B,	Distributed Query Optimization involving Outer join Operations .	Proceedings of the National Conference on Recent Trends in Advanced Computing	33-37	NCRTAC	Manonmani am Sundaranar University, Tirunelveli	2000
19. Gopalan N.P, Mala C and Ganesh K.N,	An Efficient Practical Solution for Streaming Multimedia over the Internet .	NCRTAC		NCRTAC-2000	MS University, India	2000
20. Vijayakumar B and Gopalan N.P,	Distributed Query Optimization using Independent Predicates and Detachment for the Relational Model .	Proceedings of the National Conference on Advanced Databases and Applications	90-99	SCSE	Anna University, Chennai	1998
1. R.Mohan, N.P Gopalan and et.al,	Parallel Heuristic Graph Matching Algorithm for Task assignment Problem in Distributed	ICCIS	575-579	ICCIS		2012

	Computing Systems						
3. C.Mala, Basant Kumar, Kumar Abhishek, N.P.Gopalan and et.al,	Knowledge Management Techniques for Analysis of Clinical Databases ,	International Conference on Advanced Computing, Networking and Security –		ADCONS 2011			2011
4. B. Sathiyabhama, N.P. Gopalan,	Mining Gene Expression Data Using PCA based Clustering	Proc. of International Symposium on Global Trends in biomedical Informatics Research Education and Commercialization'08	40				2008
5. Om Prakash Sao, C. Mala and N.P.Gopalan,	Strategic management of Information Technology in Steel plants ,	ICMS 2008		ICMS 2008			2008
6. K. Shyam Ravi Shanker, C. Mala, and N.P. Gopalan,	Human – Robot Coordination For Multi – Sized Quadrupled Robot Using Wireless Communication	TePRA 2008				TePRA 2008, USA	2008
7. S. Mary Saira Bhanu, A. H. Bhagyshree and N. P. Gopalan,	An Economy Based Replica Selection for a Mobile User in a Data Grid Environment	International Conference on Digital Factory		ICDF-2008			2008
8. S. Mary Saira Bhanu, S. Rajalakshmi and N. P. Gopalan,	Scheduling Data Intensive Tasks Using Hybrid Meta Heuristics in Data Grid Environment .	International Conference on Digital Factory		ICDF-2008			2008
9. G. Sumathi and N.P. Gopalan,	Job and Resource Monitoring in	Proc. of ACM Int. Conf. on Advance		ICAC 2008			2008

	Heterogeneous Computational Grids .	Computing				
10. C.Mala, D.Sareen Kumar, N.P.Gopalan and et.al.,	A novel routing to improve QoS in mobile adhoc networks with mobility prediction .	ICICOT'07	28-35	ICICOT'07	Manipal Institute of Technology, Macmillan Advanced Research series	2007
11. Beulah, C.Mala, N.P.Gopalan and et.al.,	An efficient method for Mobility Prediction in Wireless Cellular Networks using Genetic Algorithm .	ICICOT'07	36-40	ICICOT'07	Manipal Institute of Technology, Macmillan Advanced Research series	2007
12. K. Shyam Ravi Shanker, N.P. Gopalan and C. Mala,	Human-Robot Coordination of Multi-Sized Fish-like Robots Using Wired Communication .	Engineering and Computer Science, in WCECS 2007	536-541	WCECS 2007	University of California, Berkeley, United States of America	2007
13. K. Shyam Ravi Shanker, N.P. Gopalan, and C. Mala,	Human-Robot Coordination of Multi-Sized Humanoid Robots Using Wireless Communication .					
14. S. Mary Saira Bhanu, Nayanish D. Hinge and N. P. Gopalan,	Managing resources using economic models in Mobile Agent based grid .	International Conference on Modeling and Simulation CITICOMS 2007	1195-1199	CITICOMS 2007	Allied Publishers	2007
15. B. Sathiyabhama, N.P. Gopalan,	Mining Gene Expression Data Using Enhanced Intelligence Clustering and	IEEE Proc. of iccimA -2007	496-501		iccimA - 2007	2007

	Memory Reduction Technique					
16. B. Sathiyabhama, N.P. Gopalan,	Mining Gene Expression Data Using Enhanced Intelligence Clustering Technique ,	IEEE Proc. of	245-251		FSKD - 2007	2007
17. Sandeep.S, C.Mala and N.P.Gopalan,	Pervasive Service Discovery Protocol for an Ad-Hoc network .	ICMCS 2007	319-322		ICMCS 2007	2007
18. Vikram.S, C.Mala and N.P.Gopalan,	DOA Routing for Wireless Mesh Network .	In ICMCS 2007	323-326		In ICMCS 2007	2007
19. C.Mala, Dangeeti Vijaya Lakshmi, Jyotsna, N.P.Gopalan and et.al.,	Location identification in a Mobile network using Neural Networks . I	In ICMCS 2007	327-331		In ICMCS 2007	2001
20. N.P.Gopalan, C. Mala, and K. Shyam Ravi Shanker,	Usage and Control of Robot in Hazardous Situation with Wired and Wireless Communication .	In Design Principles and Practices 2007			Imperial College, London, United Kingdom	2007
21. N.P. Gopalan, C.Mala , Shriram R and Shashank Agarwal, "	Multicast Tree Computation for Group Communication in Mobile Networks using Optimization Techniques .	IEEE online proceedings			ISHAUC 2006 NIT Surathkal	2006
22. N.P. Gopalan, C. Mala, Rakesh Kumar Nayudu, Dhaneel Kumar,	A hybrid CAC scheme for integrated services in	IEEE online proceedings			ISHAUC 2006 NIT	2006

	CDMA wireless access networks				Surathkal	
23. G. Sumathi and N.P. Gopalan,	Status Monitoring System for Heterogeneous Grid Environments .	14th IEEE Int. Conf. on Advanced Computing and Communication			(ADCOM 2006)	2006
24. S. Radha, S. Mary Saira Bhanu and N. P. Gopalan,	Remote Memory Management and Prefetching Techniques for Jobs in Grid .	In Second International Conference on Semantics, Knowledge, and Grid			(SKG'06),	2006
25. Mohammad Imran Shaik, S. Mary Saira Bhanu and N. P. Gopalan,	Distributed Grid Resource Discovery with Matchmakers .	In Second International Conference on Semantics, Knowledge, and Grid			(SKG'06),	2006
26. Sumathi G. and Gopalan N.P,	Priority based Scheduling for Heterogeneous Grid Environments .	In 10th IEEE International Conference on Communication Systems (ICCS 2006)	1-5	ICCS 2006	Signapore	2006
27. G. Sumathi and N.P. Gopalan,	Status Monitoring of Jobs in Heterogeneous Grid Environments .	IEEE India Conference		(INDICON 2006),	New Delhi, India,	2006
28. Sathiybhama B. and Gopalan N.P,	Clustering Gene Expression Data Using Enhanced Correlation Search Technique .	International Conference on WSEAS Data mining		WSEAS	Greece	2006
29. B. Sathiyabhama, N.P. Gopalan	Clustering Gene Expression Data Using Enhanced Heuristic Based	Proc. of WC 2006- International Conference On Medical Physics And				2006

	Correlation Search Technique ,	Biomedical Engineering,				
30. Gopalan N.P and SivaSelvan B,	An m-ary tree based Frequent Temporal Pattern Mining Algorithm .	IEEE Indicon International Conference on Emerging Trends in Information and Communication Technology			New Delhi	2006
31. Gopalan N.P. and Batri K,	An Effective Fusion Technique based on Signal to Noise Ration .	IEEE Indicon International Conference on Emerging Trends in Information and Communication Technology			New Delhi	2006
32. Sumathi G and Gopalan N.P,	Grid Scheduling Algorithms for Heterogeneous Environment .	In Proceedings of IEEE International Conference on Signal-Image Technology and Internet based Systems	160-165		Cameroon, West Africa	2005
33. Gopalan N.P and Nagarajan K,	A Self- Refined Fault Tolerant Approach for Message Passing Cluster Environments using MPI	International Conference on Computer and information Science				2005
34. Sumathi G and Gopalan N.P,	Local Grid Scheduling Techniques .	Asia-Pacific Conference on Parallel & Distributed Computing Technologies			VIT Vellore	2005
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