

DR. S. THAMARAI SELVI

Professor, Anna University &
Director - Centre for Technology Development and Transfer, Anna University

QUALIFICATION

- B.E. Mechanical Engineering
- M.E. Computer Science and Engineering - **Gold Medalist**
- Ph.D. Computer Science and Engineering
- Experience as **Professor** in CSE at Anna University - **14 years**
- Served in Government Engineering Colleges, Manonmaniam Sundaranar University and Anna University from 2002: **33 years**

DETAILS OF TEACHING AND RESEARCH EXPERIENCE

- Professor, Anna University - **14 years and 5 months**
- Reader, Manonmaniam Sundaranar University - **8 years and 4 months**
- Lecturer, ACCET-Karaikudi, GCE-Tirunelveli, GCT-Coimbatore, Directorate of Technical Education - **9 years and 7 months**
- Instructor, Valivalam Desikar Polytechnic, Nagapattinam - **11 months**

ADMINISTRATIVE GOVERNANCE

- **First Woman Dean** of MIT Campus, Anna University – 4 years
- **Warden of MIT Campus** Hostels, Anna University – 4 years
- **Head** of the Department, MIT Campus, Anna University – 7 years
- **Head** of the Department, Manonmaniam Sundaranar University – 1 year
- **System Manager** for examination result processing at Manonmaniam Sundaranar University – 5 years
- **Executive Committee member** for Centre for International Affairs, Centre for Technology Development and Transfer and Centre for Aerospace Research

ACADEMIC GOVERNANCE

- **Syndicate Member** of Anna University in 2011-2012
- **Principal Investigator** for state and central government funded projects
- **Invited experts** from engineering colleges and foreign universities
- Created Grid Computing research laboratory and **Centre for Advanced Computing Research and Education (CARE)** at MIT campus

- **National Knowledge Network (NKN)** facility is made available in Department of Computer Technology
- AICTE, Advisory, Executive, AU Affiliation and Research recognition inspection committee member
- **Mentor** for Trichy Regional Constituent Colleges

TECHNOLOGY OUTREACH& DEVELOPMENT WITH UNIVERSITIES

- **Rescue and Relief operation** on the building collapse incident at Moulivakkam, 28 June 2014.- Technology Transfer to Tamil Nadu
- Trust management module developed for Gridway, **University of Madrid, Spain.**
- **USA** Globus Incubation project GT Auto Install completed
- Joint Research and co-authoringbook "**Mastering CloudComputing**" with **The University of Melbourne, Australia**
- Grid Computing Research Collaboration – **MIMOS, Malaysia**
- **U-learning** activities with Athabasca University, **Canada**
- **Tamil Nadu Innovation Initiative (TANII)** project received from Government of Tamil Nadu for Unmanned Aerial Vehicle (UAV)

HONORS / AWARDS / CERTIFICATES

- CSI-IEEE CS **Joint Education Award**, 2016
- **Technology Transfer Award** by Anna University, 2015
- **Award from Hon'ble Chief Minister of Tamil Nadu** for Social Work in Rescue Operation in Moulivakkam - Chennai building collapse using UAV and Thermal Imaging technology, July 2014
- **Women Engineer Award** by Indian Engineering Congress, 2013
- Received Pro Development Initiative Grant (PDIG) from Indo-Canadian Shastri Institute, Canada, 2012-2013
- Received BGI scholarship from Kuwait University, Kuwait for visiting Kuwait University and presenting paper in Third Kuwait Conference on E-Services and E-Systems, 2012
- **India-UK Staff Exchange Award** under **UKIERI**– 2012
- **Active Researcher Award** by Anna University – 2011
- **IBM Faculty Award**, 2008 and **Coach** for 2006 ACM-ICPC **World Finals**
- **Award for Best Technical Contributor on .NET** from Microsoft, 2003
- RAB Student Branch Membership Growth Award for IEEE Membership development Activities for the year 2003.(Regional Activity Board- Region 10)

POST PH.D. INVITATIONS FROM FOREIGN COUNTRIES

- **Visiting Scientist**, Wright State University, Dayton, **USA**, May-June 2015
- **Staff Exchange** for Education and Research Initiative, Under UKERI Scheme to University of Dundee, **UK**, June 2012
- **Academic Visitor**, Athabasca University, **Canada**, April 2012
- **Visiting Researcher**, MIMOS, **Malaysia**, October 2010
- **Visiting Professor**, **Kuwait** University, Dec. 2006 and Nov. 2009
- **Academic Visitor**, The University of Melbourne, **Australia**, 2006, 2007, 2010
- **Visitor Scholar**, The University of Sydney, **Australia**, July 2005

RESEARCH ACTIVITIES

- **Patents awarded / Published – 4; Books Authored – 5;** Reviewer for 8 journals
- State and Central Government funded **Projects** worth **26 Crores**
- **Publications:** Journals – 67; Conferences – 132
- **Ph.D. Scholars** guided – 14
- M.S. (by Research) Scholars guided – 7
- M.E./M.C.A./M.Phil./M.B.A. students guided – 48
- Conference/Workshops Organized – 27

SOCIETAL RESPONSIBILITIES INVOLVED

- **Youth development**, Women development -Sports & Yoga
- **Women empowerment** - Community service programs conducted
- Disaster management & Crowd monitoring using UAV
- **Anna University Rural Development Program** in progress
- **Technological assistance to give clue** in solving murder case
- Organized **National Service Scheme & Youth Red Cross** camps
- Facilitated the provision of **Palar water supply and ATM** for MIT Campus

ACADEMIC EXPOSURE TO HIGHER EDUCATION SYSTEM

- Member of Board of Studies, Standing committee and **Academic Council**
- UGC - Video Lecture delivered on **Cloud Computing**
- Digital content for first year students provided through **Technology Enabled Learning using Moodle for C programming language**
- Signed MoU with **NITTTR, Chennai for teachers training**
- **Athabasca University, Canada** - Involved in Learning Analytics
- Academic evaluation done using **Bloom's Taxonomy**

ADMINISTRATIVE EXPERIENCE / POST(S) & RESPONSIBILITIES HELD

S. NO	POST	ORGANIZATION/ UNIVERSITY	EXPERIENCE (IN YEARS AND MONTHS)
1.	Head of the Department	M.S University GCE Tirunelveli MIT- IT Developed infrastructural facilities from scratch MIT- IT Lab Development MIT-CT Developed infrastructural facilities from scratch	1 year 1 year 3 years 3 years 7 months
2.	Chairman, Board of Studies	MIT Campus IT Department	2 years
3.	Member, Board of Studies	MSU, Anna University Department, Many Affiliated Engineering Colleges to Anna University Pondicherry Engineering College, Annamalai University	11 years
4.	Dean of Faculty	MIT Campus, Anna University Initiated and Created facilities such as New lecture hall complex Administrative building International Hostels Boys and Girls Hostel Quarters for both teaching and non- teaching Additional buildings for RPT, CT, IE, Electronics departments Outdoor artificial rock climbing wall Main Entrance Gate	3 years 7months
5.	Member of Academic Council	Anna University PSR Sivakasi NEC Kovilpatti	3 years 4 years 2 years
6.	Member of Executive Council	Member of Syndicate Standing Committee, Governing Council Executive committee member for many Centres of Anna University	1 year 1 year 5 years
7.	Member of Professional / Academic Bodies	ACM, CSI, ISTE, IE	Life Member
8.	Selection Committee Member	Faculty Selection Committee member in NIT Trichy, TCE-Madurai, PEC-Pondicherry, PSG-Coimbatore, NEC- Kovilpatti	14 years
9.	Member of Advisory Committee	1. International Conference on Advanced Computing 2. International Conference on Utility and Cloud Computing	8 years 4 years

PARTICIPATION AND CONTRIBUTION IN RELEVANT AREAS IN HIGHER EDUCATION:

ROLE	ORGANISATION	AREA OF SPECIALIZATION
Visiting Professor (Refer to Annexure-I)	<ol style="list-style-type: none"> 1. University of North Texas, Denton, USA 2. University of Indiana, Bloomington, USA 3. University of Oklahoma, Norman, USA 4. University of Cincinnati, Cincinnati, USA 5. Wright State University, Dayton, USA 6. University of Dundee, Dundee, UK 7. Athabasca University, Athabasca, Canada 8. MIMOS, Kuala Lumpur, Malaysia 9. Kuwait University, Kuwait 10. The University of Melbourne, Australia 11. The University of Sydney, Australia 	<p>Teaching and Learning</p> <p>High Performance Computing Data Science Grid and Cloud Computing</p> <p>Biomedical Applications using Neural Networks Study of Curriculum and Academic System Learning Analytics</p> <p>Grid and Cloud Computing Intelligent Grid Scheduling Grid and Cloud Computing Grid Computing</p>
Resource Person	Engineering Colleges affiliated to Anna University, University of Hyderabad, CDAC, Bangalore and Chennai	Grid and cloud computing
Others	<ol style="list-style-type: none"> 1. NBA Preparation and Submission for all departments in MIT Campus 2. Guided 3 students from Antwerp University, Belgium for 3 years from 2013 to 2015 for internship at Anna University 3. Cognizant Certified Faculty 	<p>The following 4 departments got NBA accredited during my tenure of Dean in the first phase</p> <p>Information Technology Computer Technology Production Technology Rubber & Plastic</p> <p>Distributed Denial of Service(DDoS) in cloud computing</p> <p>Advance Java Technologies</p>

INVOLVEMENT WITH FORMULATION OF ACADEMIC PROGRAMMES:

S. NO	NOMENCLATURE OF INNOVATIVE ACADEMIC PROGRAMMES FORMULATED	DATE OF APPROVAL BY ACADEMIC COUNCIL	YEAR OF INTRODUCTION
1.	PSR Sivakasi- Practical oriented and outcome based programmes for CSE & IT programmes	07-05-2016	2016
2.	NEC Kovilpatti -Inter disciplinary electives and choice based credit system for CSE & IT programmes	18-04-2015	2015

IMPORTANT MOU'S FORMULATED FOR ACADEMIC COLLABORATIONS:

S. NO.	MOUS FORMULATED	NAME OF AGENCIES/ DEPARTMENTS INVOLVED	YEAR OF MOU
1.	Wright State University, Dayton, USA	Department of Computer Science & Engineering	2015
2.	Athabasca University, Athabasca, Canada	School of Computing and Information Systems	2009
3.	Massey University, New Zealand	Information Sciences	2008
4.	MIMOS	R&D in Advanced Computing	2009
5.	NITTTTR	Anna University- All Departments for Training Teachers	2014
6.	CDAC	Faculty of Information and Communication Engineering	2013
7.	University of Hyderabad	School of Computer and Information Sciences	2010
8.	Honeywell	IT Services and Solutions	2008
9.	Anna University & DGP of Tamil Nadu	Department of Aerospace Engineering and Department of Computer Technology	2014

POSITION OF CHAIRS

S. NO.	NAME OF CHAIR	NAME OF AGENCIES/ DEPARTMENTS INVOLVED	PERIOD OF HOLDING THE CHAIR
1.	Project Chair of Incubator / GT AutoInstall	The Globus Team Argonne National Laboratory, University of Chicago, USA	2008– 2015

INTERNATIONAL ACADEMIC EXPOSURE:

S. NO	POST / ASSIGNMENT	ORGANIZATION/ UNIVERSITY	AREA OF ASSIGNMENT	DURATION
1.	Visiting Scientist	Wright State University, Dayton, USA	Cloud Computing Deep Learning	One week Two weeks
2.	UKERI Staff Exchange	University of Dundee, UK	Education and Research Initiative	One week
3.	Visiting Researcher	MIMOS, Malaysia	Grid and Cloud Computing	One week
4.	Visiting Professor	Kuwait University	Grid Computing E Learning	One week One week
5.	Academic Visitor	The University of Melbourne, Australia	Grid Computing Java Cloud Computing	One Month Two Weeks Two weeks
6.	Visitor Scholar	The University of Sydney, Australia	Grid Computing	Two weeks

CONTRIBUTION TO JOURNALS AND BOOKS:

ROLE	DETAILS
Books authored (Refer to Annexure-II)	<ol style="list-style-type: none"> 1. S. Thamarai Selvi, R. Murugesan, “C for All”, Anuradha Publishers 2010 (Revised). 2. S. Thamarai Selvi, R. Murugesan, “Test Your Skills in C”, TMH 2009 (Revised). 3. S. Thamarai Selvi, R. Murugesan, “Text Book on C#”, Pearson Education 2003. 4. Rajkumar Buyya, S. Thamarai Selvi, Xingchen Chu, “Object-Oriented Programming with Java Essentials and Applications”, Tata McGraw-Hill, New Delhi, 2009. 5. Rajkumar Buyya, Christian, S. Thamarai Selvi, “Mastering Cloud Computing” Morgan Kaufmann Publications, USA, 2013.
Editor in Chief	Associate Editor for IEEE Transactions on Cloud Computing (TCC)
Editorships	Guest Editor for special Issue in IJPEDS (International Journal of Parallel, Emerging, and Distributed Systems)
Peer reviewer for (Refer to Annexure-III)	<ol style="list-style-type: none"> 1. Journal of Grid Computing (Springer) 2. Future Generation Computing Systems 3. Journal of Parallel and Distributed Computing 4. IEEE Transactions on Data and Knowledge Engineering 5. IEEE Transactions on Mobile Computing 6. Annals of Operations Research
Member of the International Advisory Board	Aero Design Challenge (2016-2017) organized by International Society of Automotive Engineers (ISAE)

PATENTS GRANTED / PUBLISHED ([Refer to Annexure-IV](#))

- 1. Title of Invention** : A System and a method to assess the trustworthiness of a resource provider.
- Inventors** : Dr. S. Thamarai Selvi, R. Kumar, P. Balakrishnan, R.A. Balachandar, K. Rajendar, J.S. Swarnapandian, G. Kannan, R. Rajiv, E. Mahendran, C.A. Prasath
- IP Type** : National Level
- Status** : Published

Patent Number	24089
Application Number	593/CHE/2007
Date of Filing of Application	23.03.2007
Patentee	ANNA UNIVERSITY
Publication Date	20.04.2007
Date of Grant	09.06.2010

- 2. Title of Invention** : A system and a method thereof for scheduling and supporting virtual resource management in a grid network (Invention filed)
- Inventors** : Dr. S. Thamarai Selvi, R. Kumar, P. Balakrishnan, K. Rajendar, G. Kannan, R. Rajiv
- IP Type** : National Level
- Status** : Published

Application Number	3027/CHE/2010
Date of Filing of Application	13.10.2010
Patentee	ANNA UNIVERSITY
Publication Date	15.02.2013
Date of Grant	Awaiting

- 3. Title of Invention** : Method and System to Deploy Grid Compute Nodes on Cloud
- Inventors** : Mohammed AmrilNurman, Mohd Nazir, Mohd Sidek Salleh, S. Thamarai Selvi, Rajendar. K and Mohammad Fairus Khalid
- IP Type** : International Level, Joint IP between MIMOS Malaysia and Anna University, Chennai.
- Status** : Published

Application Number	PCT/MY2012/000152
Date of Filing of Application	28.06.2012
Patentee	MIMOS BERHAD and ANNA UNIVERSITY
Publication Date	27.06.2013
Publication Number	WO2013095083 A1
Date of Grant	Awaiting

4. Title of Invention : Cloud-based Control, Guidance and Management of an Unmanned Aircraft System

Inventors : Dr. S. Thamarai Selvi, Dr. Senthil Kumar, G. Kannan, Rashid

IP Type : National Level

Status : Published

Application Number	5536/CHE/2012
Date of Filing of Application	31.12.2012
Patentee	ANNA UNIVERSITY
Publication Date	11.07.2014
Date of Grant	Awaiting

LIST OF SCHOLARLY PUBLICATIONS IN RECOGNIZED PROFESSIONAL AND/OR ACADEMIC JOURNALS:

Total Publications: 67

S.NO	DATE	TITLE	NAME OF JOURNAL	NUMBER OF CITATIONS
1.	June-July 2016	Cloud Technology Module for aggregation of survey data housing and buildings in coastal villages as per IS:15499 towards cyclone disaster mitigation	Journal of Structural Engineering Vol 43, No.2, pp 199-211.	-
2.	2016	Efficient Negotiation of SLA Parameters in Cloud Computing Environment	Asian Journal of Information Technology. vol. 15, issue no. 17, 2016	-
3.	2015	Big Data Learning Analytics: A New Perspective	Ubiquitous Learning Environments and Technologies, Springer, pp. 139-158, 2015	4
4.	2014	Competence Analytics	Journal of Computers in Education, Vol. 1, No.4, pp. 251-270, 2014	5
5.	2014	DDoS defence system for web services in a cloud environment	Future Generation Computer Systems (FGCS), Elsevier Publications, Vol 37, pages 37-45, 2014	16
6.	2014	Profit-Aware Policy Scheduler (PAPS) for Resource Allocation in IaaS Clouds	International Journal of Advanced Research in Computer Engineering and Technology, Vol. 3, No. 4, pp. 1373-1377, 2014	-
7	2014	CLOUDRB: A Framework for Scheduling and Managing High-Performance Computing (HPC) Applications in Science Cloud	Future Generation Computer Systems (FGCS), Elsevier Publications, Vol 34, pages 47-65, 2014.	39
8	2014	Semantic-enabled CARE Resource Broker (SeCRB) for Managing Grid and Cloud Environment	Journal of Supercomputing, Springer Publications, Published Online, 2014	9

S. NO	DATE	TITLE	NAME OF JOURNAL	NUMBER OF CITATIONS
9	2013	Thwarting DDoS attacks in grid using information divergence	Future Generation Computer Systems, 29(1): 429-441 2013	17
10	2012	A Grid resource brokering strategy based on resource and network performance in Grid	Future Generation Computer Systems, 28(3), March 2012, pp 491-499	13
11	2012	Trust Management system for computational grid	European Journal of Scientific Research, Vol. 79, No. 1, pp. 15-23, 2012	-
12	2012	Mobile Agent based Resource Monitoring for job submission in Grid with Virtual Database	Journal of Internet Technology, 2012	3
13	2011	SLA enabled CARE Resource Broker	Future Generation Computer System, Elsevier, 27 (3), 265-279, 2011	18
14	2011	A Novel Trust Management System for Cloud Computing IaaS Providers	Journal of Combinatorial Mathematics and Combinatorial Computing, Vol. 79, pp.3, 2011	8
15	2011	Mobile Agent based Automated Deployment of Resource Monitoring Service in Grid	Ubiquitous Computing and Communication Journal, Vol. 6, No. 2, pp. 786-790, 2011.	-
16	2011	Mammogram tumour classification using Q learning	International Journal of Biomedical Engineering and Technology, Vol. 7, No. 4, 2011	8
17	2011	Support value transform-based multimodality medical image fusion	International Journal of Healthcare Technology and Management, Vol. 12, No. 5, pp.457-470, 2011	-
18	2011	VCDE: a toolkit for virtual cluster creation for grid environment	International Journal of Parallel Emergent & Distributed Systems, Vol. 26, No. 6, pp.443-455, 2011	-
19	2011	Detection and Classification of Ventricular arrhythmias using Wavelet transform	CIIT International Journal of digital signal processing, 20(1): 11-18, April 2011	-
20	2011	Balanced Scheduling of Independent File-Sharing Tasks in Heterogeneous Environment	Journal of Computer Science 7 (12): 1793-1797, 2011	-
21	2010	An alternate approach to Resource Allocation Strategy using Network Metrics in Grid	International Journal of Grid Computing and Applications Vol. 1, No. 2, pp. 27-37, 2010	1
22	2010	Scheduling in Virtualized Grid Environment using Hybrid Approach	International Journal of Grid Computing and Applications 2010	3
23	2010	Novel Resource Allocation Strategy Using Network Metrics in GRID	Recent Trends in Networks and Communications, Vol 90, pp 107-113	2
24	2010	Fault Management in Grid Using Multi-agents	Recent Trends in Networks and Communications, Vol. 90, pp. 50-59, 2010	-

S. NO	DATE	TITLE	NAME OF JOURNAL	NUMBER OF CITATIONS
25	2010	Hybrid approach for brain tumor segmentation in magnetic resonance images using cellular neural networks and optimization techniques	International Journal of Computational Intelligence and Applications, Vol. 9, No. 1, pp. 17-31, 2010	5
26	2010	The SURE-LET Approach for MR Brain Image Denoising Using Different Shrinkage Rules	International Journal of Healthcare Information Systems & Informatics, Vol.5, No.2, pp.73-81,2010	1
27	2010	Secured And Trusted Three Tier Grid Architecture	Special Issue on Grid Computing and Applications in the International Journal of Ad Hoc and Ubiquitous Computing, Volume 5, Issue 4, pp. 244-251, 2010	1
28	2010	CARE Resource Broker: A Framework for Scheduling & Supporting Virtual Resource Management	Future Generation Computer Systems, Volume 26 Issue 3, March, 2010 Pages 337-347	38
29	2010	EU-India Grid Interoperability Experiments using GridSeed tool	Multi-Agent & Grid Systems, 6(3): 261-269 (2010)	6
30	2009	A hybrid probabilistic counter-based broadcast approach protocol for Mobile Ad hoc Networks	International Journal of Ad Hoc and Ubiquitous Computing, Vol. 4, No. 2, 2009	6
31	2009	Solving Missile Defence and Interceptor allocation problem using Reinforcement learning and optimization techniques	International Journal of Recent Trends in Engineering, Vol. 2, No. 3, pp. 117-119, 2009	3
32	2009	Neural Network-Based Interpolation And Extrapolation Of Wind Tunnel Test Data	International Journal of Computational Intelligence and Applications, Vol. 8, No. 2, pp. 225-235, 2009	2
33	2009	Secured and Trusted Three Tier Grid Architecture	Special Issue on Grid Computing and Applications in the International Journal of Ad Hoc and Ubiquitous Computing 2009	1
34	2009	Ontology-based Grid Resource Management	Journal of Software Practice and Experience, Vol 39, Issue 17, pp 1419-1438, Dec. 2009	21
35	2009	Reputation and Policy Based Three-Tier Grid Architecture with Genuine Feedbacks	International Journal of Autonomous and Adaptive Communications Systems (IJAACS) Vol.2, No 4, 2009	-
36	2008	Efficient Management of Network Resources Using Autonomous Agents in Grid	IJCSNS International Journal of Computer Science & Network Security, VOL.8 No.4, 2008,pp.178-184, April 2008	5
37	2008	Monitoring Remote Jobs in Grid Using Mobile Agents	Icfai Journal of Information Technology, June 2008, pp.57-63	-

S. NO	DATE	TITLE	NAME OF JOURNAL	NUMBER OF CITATIONS
38	2008	A Trust Management Architecture for Resource Selection in Grid	International Transaction on System Science and Applications 2008, Vol 3, No. 4, pp. 355-365	-
39	2008	Mammogram Classification Using Support Vector Machines	International Journal of Soft Computing 3 (3), 212-219, Medwell Journals, 2008	1
40	2008	Prediction of Aerodynamic Characteristics Using Neural Networks	Asian Journal of Information Technology, pp. 19-26, 2008	8
41	2008	Digital mammogram Segmentation & tumour detection using Artificial Neural Network	International Journal of Soft Computing, 112-119, 2008	6
42	2008	Iteration-Free Fractal Coding for Image Compression using Genetic Algorithm	International Journal of Computational Intelligence and Applications, pp.429-446, Vol. 7, No. 4, 2008	4
43	2008	Performance of Iteration Free Fractal Coding for Image Compression Using Simulated Annealing	International Journal of Computer Science and Software Technology Vol.1 No.2 July " Dec. 2008 pages 71 - 81	-
44	2007	Dynamic Updating and Management of Virtual Resource Database in Grids Using Mobile Agents	International Journal of Computer Science and Network Security (IJCSNS), April 2007, pp.230-234	5
45	2007	A New Network Management Framework Using Mobile Agents	ICFAI Journal of Information Technology, December 2007, pp.43-51	-
46	2007	Efficient broadcasting in MANETs using directional antennas	Ubiquitous Computing and Communication Journal, 2007 Volume 2 No. 2, March 2007	6
47	2007	TCP performance analysis for mobile Adhoc Networks using On-Demand Routing Protocols	Ubiquitous Computing and Communication Journal, 2007 Volume 2 No. 2, March 2007	9
48	2007	Fuzzy Based Resource Management in Broker Architecture using Trust and Credentials	International Journal of Soft Computing 2007, Vol. 2(4), pp. 494-501	-
49	2007	Fuzzy Based False Feedback Mitigation in Broker Architecture using Linear Interpolation	International Journal of Soft Computing 2007, Vol. 2(4), pp. 513-519	-
50	2007	A New Network Management Framework Using Mobile Agents	Icfai Journal of Information Technology, pp.43-51, December 2007	-
51	2007	Missile Defence and Interceptor Allocation by LVQ-RBF Multi-agent Hybrid Architecture	Defence Science Journal (Impact Factor: 0.359), Vol. 57, No. 2, pp. 173-183, 2007	3
52	2006	Abnormality Detection in Brain MR images using Minimum Error Thresholding Method	International Journal of Computational Intelligence & Applications, Vol. 6, No. 2 (2006) 177-191	1
53	2006	Brain MRI slices classification using Least Squares Support Vector Machine	International Journal of Intelligent Computing in Medical Science and Image Processing, 2006	92

S. NO	DATE	TITLE	NAME OF JOURNAL	NUMBER OF CITATIONS
54	2006	Least squares support vector machine based classification of abnormalities in brain MR images	Systems Science, Vol. 32, No. 1, pp. 89, 2006	1
55	2006	Solving Battle Management / Comm-and Control and Communication Problem using Modified BIONET	Defence Science Journal (Impact Factor: 0.359), Vol. 56, No. 4, pp. 627-636, 2006	-
56	2005	Wavelet Implementation for ECG characterization in pacemaker an overview	Journal of Caledonian college of engg., Sultanate of Oman, Vol.1, Issue 3, 23-29, 2005	-
57	2005	Performance Analysis of Fuzzy Logic Based Filtering Techniques for Noise Reduction from Images	International Journal on lateral computing, Vol., No.2, 2005	-
58	2005	Wavelet Implementation for ECG Characterization in Pacemakers - An Overview	Caledonian Journal of Engineering, Vol 01, Issue 03, 2005	-
59	2005	Support Vector Machine based automatic classification of Human Brain using MR image features	International Journal of Computational Intelligence and Applications, 2005	5
60	2003	Identification of a Rank Minimal Optimal Sequence for Open Shop Scheduling Problems	International Journal of Information and Management Sciences Vol.14, No.1 pp.37-55, 2003	5
61	2003	Fuzzy Logic based Intelligent Control for Irrigation System	TETE Technical Review, Vol 20, No. 3, May-June 2003, pp.199-203	-
62	2003	Six Sigma Approach for Improving Engineering Education in Rural Technical Institutions	The Indian Journal of Technical Education, vol.26, No3, July-Sep 2003, 43-51	-
63	2001	Characteristics of Machine order matrix of open shop scheduling problems	Indian Association for Productivity Quality & Reliability Transactions, Vol.26, No.2, pp.79-89,2001	-
64	2000	BIONET: an Artificial neural network model for diagnosis of diseases	Pattern Recognition Letters, 21, pp.721-740, 2000	15
65	1999	Simulation of BIONET in Medical Diagnosis	Modelling, Measurement and Control, (Association for the Advancement of Modelling & Simulation Techniques in Enterprises Journal), Vol.59, No.1, 2, pp.33-52, 1999	-
66	1999	Connectionist Expert System to Diagnose Neck and Arm Pain	Defence Science Journal (Impact Factor: 0.359), Vol.49, No.3, July 1999, pp.197-210	-
67	1999	BIONET: An Artificial Neural Network Model to Diagnose Neck and Arm Pain	Advances in Modelling and Analysis, (Association for the Advancement of Modelling& Simulation Techniques in Enterprises Journal), Vol.42, No.1, pp.33-47, 1999	-

LIST OF ARTICLES IN POPULAR MAGAZINES OR NEWSPAPERS

(Refer to Annexure-V)

S. NO.	DATE	TITLE	NAME OF MAGAZINE/ NEWSPAPER
1.	October 31, 2016	'Thevar Jayanthi' peaceful	The Hindu
2.	October 29, 2016	Sleek fixed-wing UAV on its maiden security mission	The Hindu
3.	September 26, 2015	Rs. 20 cr. for Anna varsity to develop UAVs	The Hindu
4.	November 06, 2014	UAVs will help police tighten security	The Hindu
5.	January 30, 2012	Dhaksha UAV Forge entry tested successfully by team MIT India	sUAS News

PARTICIPATION AND SCHOLARLY PRESENTATIONS IN CONFERENCES: (NATIONAL)

S. NO.	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
1.	February 22-23, 2013	National Conference on Parallel Computing Technologies (PARCOMPTECH-2013), Bangalore	Heuristics Aware Advance Reservation and Scheduling (HAARS) mechanism in Hybrid (Grid/Cloud) environment
2.	April 17, 2009	RTAC National Conference, Madurai, pp. 181-188	Framework for Hypervisor in Grid
3.	April 2009	National Conference on Recent Trends on Advance Computing, MIT, Anna University, pp. 232-238	Rough Set Approaches for Scheduling in Grid Environment
4.	April 25, 2009	NCACC 09 National Conference held at Erode, pp. 267-268	Virtual Information System in Grid
5.	May 2009	National Conference on Computing Technology	Virtual Machine Management System for Clusters
6.	February 2007	Second National Conference on Advanced Computing (NCAC 2007), Anna University	A Framework for Trust Management System in Computational Grids
7	December 15 - 16, 2005	Third National Conference on Mathematical & Computational Models (NCMCM 05) - PSG College of Technology, Coimbatore, India	QRS detection by Wavelet Transform Modulus Maxima approach
8	February 18-19, 2005	National Conference on Computer Science and Informatics, St. Joseph College, Trichy	Fractal Image Compression with Partitioned Iterated Function System
9	2004	National Conference on Recent Trends in Networking Technology, pp. 35-40	Active Network Management using Mobile Agents
10	October 28-29, 2004	National Conference on Recent Trends in Digital Image Processing and its Applications, Yadava College, Madurai	Image Compression using Vector Quantization

S. NO.	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
11	April 7- 8, 2004	National Conference on Recent Trends in Communication Systems, Noorul Islam College of Engineering, Nagercoil, India pp.118-124	A High Performance Fuzzy Logic Based Filter For Removal Of Hybrid Noises From Images
12	April 7- 8, 2004	National Conference on Recent Trends in Communication Systems, Noorul Islam College of Engineering, Nagercoil, India	Segmentation of Brain Tissues Using Neuro-Fuzzy Algorithm
13	April 7- 8, 2004	National Conference on Recent Trends in Communication Systems, Noorul Islam College of Engineering, Nagercoil, India. Pp.96-103	Performance Analysis of Sequential Orthogonal Learning Neural Network in Segmentation of MR Images
14	July 11- 12, 2003	National Conference on Software Agents and Embedded Systems, NCS AES 2003, Sri Ramakrishna Engineering College, Coimbatore, Pp. 103 - 117	Intelligent Information Management in Semantic web by Software Agents
15	July 11- 12, 2003	National Conference on Software Agents and Embedded Systems, NCS AES 2003, Sri Ramakrishna Engineering College, Coimbatore, Pp. 374- 382	PLC based Intelligent Irrigation Control Systems, National Conference on Software Agents and Embedded Systems
16	March 1- 2, 2002	National Conference on Signals, Systems and Security, PSG College of Technology, Coimbatore	Neural Network based Segmentation of Magnetic Resonance Images of the Brain
17	February 6-7, 2002	National Conference on Soft Computing, Kongu Engineering College, Perundurai	Multilevel Thresholding for MRI image segmentation using Genetic Algorithm
18	February 15-16, 2002	National Workshop on Vision, Graphics and Image Processing, Thiagarajar College of Engineering, Madurai, pp.210-215	Automatic Identification and Classification of Brain Tumours on MRI using digital Image Processing and Artificial Neural Networks
19	February 23-24, 2002	National Conference on Applications of Neural Network and Fuzzy Systems, held at Annamalai University, Chidambaram	Supervised & un-supervised Neural Network approaches to magnetic resonance Image segmentation
20	March 1-2, 2002	National Conference on Signals, Systems and Security organized by Department of ECE, P.S.G. College of Technology, Coimbatore	Neural Network based Segmentation of magnetic Resonance Images of Brain
21	February 6-7, 2002	National Conference on Soft Computing, Kongu Engineering College, Perundurai	Comparative study of Data Compression Techniques
22	2002	Proceeding of the National Symposium on Statistical Methods and Applications, Department of Statistics, Annamalai University, Chidambaram	Determination of an Alternative Optimal Solution for 4 Jobs, 4 Machines Open Shop Scheduling Problems
23	October 29-31, 2002	37th National Convention of CSI, held at IISc, Bangalore Pp.156-164	Multilevel Thresholding for MRI segmentation using Genetic algorithms

S. NO.	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
24	August 22- 24, 2002	National Conference on Recent Trends in Information Technology, Department of Computer Science, Karpagam Arts and Science College, Coimbatore	Comparative Study on Symmetric Crypto Algorithms
25	December 10-12, 2001	National Conference on Mobile Computing, Hyderabad	Biometric Security Using Thumb Impression in WAP Enabled Handheld Devices
26	2000	National Conference on Recent Trends in Advanced Computing (NCRTAC 2000), pp. 79-84	Optimization of Quality Testing using BIONET
27	1998	National Seminar on Artificial Neural Networks and Cognitive Sciences (ANCS98) Cochin University of Science and Technology, Cochin, pp. 9 - 11	Logical functioning of BIONET
28	1998	National Systems Conference in 1998, Regional Engineering College, Kozhikode, pp. 58-61	An Artificial Neural Network Model for Health Care Delivery System
29	1997	National Seminar on Networks, NET-X'97, Cochin, pp. 3-5	Neural Networks in Medical Diagnosis
30	1997	National Seminar on Networks NET-X'97, Cochin	Security in Network
31	1996	National Seminar on Mathematical Modelling and Computer Simulation of Real Life Situation, St. Xavier's College, Tirunelveli, pp. 93-99	Guide Map of Manonmaniam Sundaranar University
32	February 1995	National Conference on Microcomputers, Trivandrum Chapter of Computer Society of India, Trivandrum, pp. 1-4	Diagnosis of Cervical Spondylosis using Neural Networks
33	December 1995	Nineteenth National Systems Conference on Recent Trends in Applied Systems Research, PSG College of Technology, Coimbatore, India, 532-536	Neck and Arm Pain Evaluation using Neural Network
34	1993	National Seminar on Software Engineering, IEEE Kerala Section, Trivandrum	Parity Checking Using BPN

**PARTICIPATION AND SCHOLARLY PRESENTATIONS IN CONFERENCES:
(INTERNATIONAL)**

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
1.	January 19-21, 2017	IEEE International Conference on Advanced Computing, India.	A Distributed Cloud Resource Management Framework for High-Performance Computing (HPC) Applications
2.	January 19-21, 2017	IEEE International Conference on Advanced Computing, India.	Text Categorization using Rocchio Algorithm and Random Forest Algorithm

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
3.	January 19-21, 2017	IEEE International Conference on Advanced Computing, India.	Prevention of Shilling Attack in Recommender Systems using Discrete Wavelet Transform and Support Vector Machine
4.	December 5-8, 2016	IEEE International Conference on Big Data 2016 (IEEE Big Data 2016) Special Session on Intelligent Data Mining, Washington D.C., USA	Swarm Intelligence (SI) based Profiling and Scheduling of Big Data Applications
5.	May 21-23, 2015	IEEE International Conference on Electro/Information Technology EIT2015, Northern Illinois University, DeKalb, USA	Determination of Competency of Programmers by Classification and Ranking using AHP
6.	May 21-23, 2015	IEEE International Conference on Electro/Information Technology EIT2015, Northern Illinois University, DeKalb, USA	Virtual Machine Placement Optimization in SDN-Aware Federated Clouds
7	July 6-9, 2015	The 15th IEEE International Conference on Advanced Learning Technologies - ICALT2015, Hualien, Taiwan	Parallel-Particle Swarm Optimization (P-PSO) Based Clustering for Smart Learning Environment
8	December 15-17, 2015	Seventh IEEE International Conference on Advanced Computing, ICoAC 2015, MIT, Anna University, India	Dynamic Resource Allocation with Efficient Power Utilization in Cloud
9	July 24-25, 2014	International Conference on Smart Learning Environments (ICSLE), The Hong Kong Institute of Education, Hong Kong	Optimizing Learning through Smart Causal Analytics on Learning (SCALE)
10	December 18-20, 2013	5 th IEEE International Conference on Technology for Education, IIT Kharagpur, India	Continuous Clustering in Big Data Learning Analytics
11	August 15-18, 2013	International Tamil Internet Conference, University of Malay, Kuala Lumpur, Malaysia	Teaching a Programming Language in Tamil for Tamil-medium students using Gestalt Psychology
12	July 15-18, 2013	International Workshop on Learning Analytics (IWLA 2013), held in conjunction with 13th IEEE International Conference on Advanced Learning Technologies, Beijing, China	Particle Swarm Optimization (PSO)-based Clustering for Improving the Quality of Learning using Cloud Computing
13	April 11-13, 2013	IEEE Conference on Information and Communication Technology, pp. 1165-1170	Scalable clustering mechanism to analyze the traces and to predict the behavior of learners
14	December 18-20, 2012	Fourth Kuwait Conference on E-Services and E-Systems, University of Kuwait, Kuwait	Semantic-Aware P2P based Resource Management Framework for managing federated Clouds
15	July 2012	International Conference on Grid Computing and Applications (GCA), Las Vegas, USA	A Novel Heuristics based Energy Aware Resource Allocation and Job Prioritization in HPC Clouds

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
16	November 12-14, 2012	P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC), 2012 Seventh International Conference on , vol., no., pp.211-217	CDM Server: A Data Management Framework for Data Intensive Application in Internal Private Cloud Infrastructure
17	2012	International Conference on Advances in Computing (ICAdC) Bangalore, 2012	A broker based architecture for adaptive load balancing and elastic resource provisioning and deprovisioning in multi-tenant based cloud environment
18	April 19-21, 2012	IEEE International Conference on Recent Trends in Information Technology (ICRTIT) Chennai, pp 162-167	An Architectural Framework to Solve the Interoperability Issue between Private Clouds Using Semantic Technology
19	April 19-21, 2012	IEEE International Conference on Recent Trends in Information Technology ICRTIT, Chennai, pp. 191-196	A Self-Regulated Learning Approach for Programming Language Using Cloud-based Learning Management System
20	April 19-21, 2012	IEEE International Conference on Recent Trends in Information Technology, pp. 244-249, 2012	Applying problem based learning approach on e-learning system in cloud
21	April 19-21, 2012	IEEE International Conference on Recent Trends in Information Technology, pp. 197-201, 2012	Blended learning for programming in cloud-based e-learning system
22	December 13-15, 2012	Fourth IEEE International Conference on Advanced Computing (ICoAC), pp. 1-5, 2012	Scalability Issues in Cloud Computing
23	December 14-16, 2011	Third IEEE International Conference on Advanced Computing (ICoAC) 2011, pp. 340-345	Cloud Monitoring and Discovery Service (CMDS) in IaaS Clouds
24	June 3-5, 2011	IEEE International Conference on Recent Trends in Information Technology, ICRTIT 2011 pp. 644-649	Intelligent Semantic Discovery in Virtualized Grid Environment
25	December 14-16, 2011	Third IEEE International Conference on Advanced Computing (ICoAC 2011), pp.384-389	Countermeasures to Threats from Agent Platform and Malicious Code Check Using Dynamic Policy File
26	December 14-16, 2011	Third IEEE International Conference on Advanced Computing (ICoAC 2011), pp. 396-400	Network Fault Monitoring in Grid
27	2011	Third International Conference on Network and Communications, Springer, Communications in Computer and Information Science (CCIS) Series 2011	A Hierarchical Mobile Agent Monitoring Mechanism with XML-based Mobile Agents
28	September 25-28, 2011	IEEE Conference on Open Systems (ICOS), 2011, pp.180-184	Intelligent Grid: Rapid deployment of Grid compute nodes for immediate execution of batch and parallel applications

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
29	December 14-16, 2010	Second IEEE International Conference on Advanced Computing (ICoAC), 2010, vol., no., pp.88-95	Compaction of schedules in a force based clustering method
30	December 14-16, 2010	Second IEEE International Conference on Advanced Computing (ICoAC), 2010, vol., no., pp.82-87	RISVG: Resource Information System for Virtualization enabled grid
31	February 7-10, 2010	12 th IEEE International Conference on Advanced Communication Technology, ICACT 2010 pp. V4-377 - V4-381, 2010	Non Pre-emptive Priority (NPRP) based Job Scheduling Model for Virtualized Grid Environment
32	October 04-05, 2010	International Conference on Advances in Communication, Network and Computing CNC 2010, Calicut, India	Min Cost Bipartite Matching based Heuristic for Resource Selection in Grid
33	June 25-27, 2010	IEEE International Conference on Computer Design and Applications (ICCD), Qinhuangdao, China	Estimating job execution time and handling missing job requirements using rough set in grid scheduling
34	2010	International Conference on Instructional and Computer Technology (ICICT 2010), China	Runtime Estimation of Jobs using Rough Sets in Grid Schedulers
35	2010	International Conference on Information and Communication Technologies, Communications in Computer and Information Science, Springer, Berlin Heidelberg, pp 223-227, 2010	Dynamic Load Balancer Algorithm for the Computational Grid Environment
36	2010	Third International Conference on Network Security & Applications, Springer, Communications in Computer and Information Science (CCIS) Series, pp. 107-113, 2010	Novel Resource Allocation Strategy Using Network Metrics in GRID
37	2010	International Conference on Recent Trends in Business Administration and Information Processing Springer, LNCS, Information Processing and Management, Vol. 70, pp. 297–304, 2010	Multi-agent based network performance tuning in grid
38	2010	Third International Conference on Network Security & Applications, Springer, Communications in Computer and Information Science (CCIS) Series, pp. 50-59	Network Fault Management in Grid using Multi-Agents
39	December 13-15, 2009	First IEEE International Conference on ICAC 2009 pp.176-181	Trust management system for grid and cloud resources
40	December 2009	10th IEEE/ACM International Conference on Grid Computing 2009 (Grid 2009), Banff, Canada	Extending Conventional Grid Scheduler for Leasing Resources (Poster Paper)

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
41	May 2009	4th International Conference on Grid and Pervasive Computing [GPC 2009], Geneva, pp. 235-243	Achieving Co-allocation through Virtualization in Grid Environment
42	2009	International Workshop on Technology for Education, pp. 42-48, 2009	Open Instructional Design
43	2009	International Conference on Mobile Adhoc and Sensor Networks, pp. 340-346, 2009	Energy Efficient Integrated Routing Protocol for MANETs
44	December 13-15, 2009	First IEEE International Conference on ICAC 2009 pp. 129-134	A Trust model with DDoS Counter Mechanism for Grid Environment
45	December 13-15, 2009	First IEEE International Conference on ICAC 2009 pp. 148-153	Security in Mobile Grid Service
46	December 14-17, 2009	ADCOM 2009, India	Trust in Mobile Ad Hoc Service GRID
47	2009	IEEE Advanced Computing Conference, pp. 293-297, 2009	Network Performance Monitoring Using Mobile Agents in Grid
48	December 13-15, 2009	First IEEE International Conference on Advanced Computing, ICAC 2009, pp.167-171	Grid Learning Management System with role-based access control
49	2009	ICCGI 2009	VIS: Virtual Information System for Grid
50	July 7-11, 2008	IEEE International Conference on Web Services (ICWS 2008), vol 2, pp. 569-570, Beijing, China	GSMA based Automated Negotiation Model for Grid Scheduling
51	December 14-17, 2008	16th IEEE International Conference on Advanced Computing and Communication, ADCOM 2008, pp.163-169	Virtual Cluster Development Environment for grids
52	September 23-26, 2008	IEEE International Conference on Web Services, ICWS 2008. pp. 203-210	Service Level Agreement Based Grid Scheduling
53	December 14-17, 2008	16th IEEE International Conference on Advanced Computing and Communication, ADCOM 2008	Virtualization in Grid
54	December 14-17, 2008	16th IEEE International Conference Advanced Computing and Communications, pp.170-173	Relational Network Monitoring system for Grid Performance Optimization
55	2008	The 2008 High Performance Computing & Simulation Conference (HPCS 2008)	Balanced scheduling of independent file sharing tasks in heterogeneous master slave environment
56	July 2008	International Conference on High Performance Computing, Networking and Communication Systems (HPCNCS), Orlando, Florida, USA	Securing Trustworthy Three-tier Grid Architecture using Spam filtering

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
57	2008	First International Conference on Contemporary Computing 2008, Noida, India, pp. 151-157	Securing Trustworthy Three-tier Grid Architecture with DDoS Attack Defense Mechanism
58	July16-18, 2008	The First IEEE International Conference on Emerging Trends (ICETET-08), INDIA, pp. 396-399	Securing Trustworthy Three-Tier Grid Architecture with Spam Filtering
59	August 4-6, 2008	The Thirteenth IEEE Asia-Pacific Computer Systems Architecture Conference (ACSAC 2008) Hsinchu, Taiwan, pp. 1-6	A Quiz-Based Trust Model with Optimized Resource Management in Grid
60	December 13-15, 2007	International Conference on Computational Intelligence and Multimedia Applications, pp.545-551	Trust Based Grid Scheduling Algorithm for Commercial Grids
61	December 13-15, 2007	International Conference on Computational Intelligence and Multimedia Applications, pp.456-460	Performance Evaluation of Kernel Based Techniques for Brain MRI Data Classification
62	2007	WUGC, HiPC-2007, Goa, India	Dynamic Grid Virtualization Framework
63	2007	International Conference on Computer, Information and Systems Science, and Engineering, 2007, Austria	Decoupled Scheduling In Meta Environment
64	2007	IEEE Workshop COMSWARE-2007, Bangalore, pp. 1-6	A Multi-Broker Trust Management Framework for Resource Selection in Grid
65	2007	IEEE International Conference on Signals and Communication Networks 2007, Chennai	B-Tree based Trust Model for Resource Selection in Grid
66	2007	International Conference on Computational Intelligence and Multimedia Applications, pp. 71-75, 2007	Neural Network based Interpolation of Wind Tunnel Test Data
67	2007	WORLDCOMP'07 / GCA'07, Las Vegas, USA	A robust trust model for resource selection in the grid
68	2007	ICGSD'07, PSG Tech, Coimbatore	Three-Tier Architecture for Resource Selection in Grid
69	2007	International Conference on Signal Processing, Communications and Networking, pp. 139-144	An Efficient Location Tracking Algorithm for MANET using Directional Antennas
70	2007	IEEE International Conference on Signals and Communication Networks 2007, Chennai	Three-tier grid architecture with policy-based resource selection in grid
71	2007	International Conference on Advanced Computing and Communications, pp. 721-726	Analysis of a CSMA/CD Optical Network with Application of Optical Buffers (FDLs) for Online Routing
72	2007	IEEE ICCIMA'07, Sivakasi, pp. 412-419	A Robust Trust model with Rated Genuine Feedbacks in a Grid Environment

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
73	January 7-12, 2007	2nd International Conference on Communication Systems Software and Middleware, 2007. COMSWARE 2007. pp.1-7	Ubiquitous Semantic Space: A context-aware and coordination middleware for Ubiquitous Computing
74	2007	TENCON 2007-2007 IEEE Region 10 Conference, pp. 1-4, 2007	Distributed discovery of semantic grid service using semantic clustering of service ontologies
75	2007	International Conference on Mobile and Ubiquitous Systems: Networking & Services, pp. 1-6, 2007	An Efficient Context-Aware Coordination Model for Ubiquitous Computing
76	2007	International Conference on Information and Communication Technology, pp. 189-192, 2007	A three level broker framework for Global Service-oriented Utility Grid
77	2006	International Conference on Industrial and Information Systems, Peradeniya, Sri Lanka (ICIIS'06)	Breast cancer detection in digitized mammogram using Binary tree classifier
78	2006	IEEE (INDICON) 2006	A New Grid Monitoring Framework using Mobile Agents
79	2006	14th International Conference on Advanced Computing and Communications (ADCOM 2006), December 2006 \\	Semantic Based Grid Resource Discovery and its integration with Grid Service Broker
80	November 2006	IASTED International Conference on Computational Intelligence 06 (CI 06), San Francisco, November 2006	Semantic Matchmaking of Grid Services using Parameter Matchmaking Algorithm
81	December 2006	14th International Conference on Advanced Computing and Communications (ADCOM 2006), December 2006.	Semantic Description and Discovery of Grid Services Using WSDL-S and QoS based Matchmaking Algorithm
82	December 2006	IEEE/WIC/ACM International Conference on Web Intelligence 2006 (WI 06), Hong Kong	Semantic Discovery of Grid Services Using Functionality based Matchmaking Algorithm
83	2006	International Conference on Industrial Technology, pp. 905-910, 2006	Segmentation and SVM Classification of Mammograms
84	December 2006	2nd International Conference on Information and Automation 2006, (ICIA 06), Colombo	Grid Service Discovery - An approach using parameter and QoS based Matchmaking
85	2006	International Conference IEEE INDICON, 2006	A New Grid Monitoring Architecture Framework using Mobile Agents
86	2006	IET International Conference on Visual Information Engineering, pp. 189-194, 2006	Iteration-free fractal coding for image compression using simulated annealing
87	2006	International Conference on Grid Computing and Applications (GCA' 06), Las Vegas, pp. 97-106. 2006	Scheduling of Jobs in a Dynamic Heterogeneous Environment

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
88	2006	IEEE TENCON, pp. 1-4, 2006	Semantic Grid Service Discovery Approach using Clustering of Service Ontologies
89	2006	International Conference on Grid Computing and Applications (GCA' 06), Las Vegas	Job Scheduling in a Heterogeneous Environment
90	December 7-9, 2005	International Conference on Information Security (icics'05), Pondicherry, pp. 237-241	A Broker Architecture Framework for Reputation-Based Trust Management in Grids
91	2005	ADCOM 2005, Coimbatore	Multilingual Interface for Grid Market Directory Services: An Experience with Supporting Tamil
92	2005	International Information Science, Technology, and Management, MDI, Gurgaon, India, July 24-26, 2005	Event Driven Service Oriented Application Integration
93	August 16-18, 2005	International Conference on Computational Intelligence and Multimedia Applications (ICCIMA 2005), Las Vegas, USA	MRI Image Segmentation Using Unsupervised Clustering Techniques
94	January 2004	International Conference on Responsive Supply Chain and Organizational Competitiveness (RSC 2004), India	Simulation And Implementation of Fuzzy Based Intelligent Controller for Sprinkler Irrigation System using Microcontroller
95	February 12-15, 2004	International Conference on Systemics, Cybernetics and Informatics (ICSCI 2004), India, pp.383-388	Performance Analysis of Supervised and Unsupervised ANN for Segmentation of MR Images of Human Brain
96	February 12-15, 2004	International Conference on Systemics, Cybernetics and Informatics (ICSCI 2004), India, pp. 518-523	Neuro Fuzzy Application in Automatic Remote Irrigation Control
97	February 20-23, 2004	International Conference on Intelligent Signal Processing and Robotics (ISPR 2004) Indian Institute of Information Technology Debgat, Jhalwa. Allahabad, India	LVQ ANN for Automated Tissue Segmentation and Classification of Brain MR Images
98	February 20-23, 2004	International Conference on Intelligent Signal Processing and Robotics (ISPR 2004) Indian Institute of Information Technology Debgat, Jhalwa. Allahabad, India	Automated Brain Tumor Segmentation in Magnetic Resonance Imaging
99	August 3-5, 2004	Second International Conference on Artificial Intelligence in Engineering and Technology (ICAIET 2004), at University Malaysia Sabah, Kota Kinabalu, Malaysia, Pp.167-173	Design and Development of Telemetry Based Automated Crop Irrigation Control using Neuro Fuzzy Technique

S. NO	DATE	TITLE OF CONFERENCE OR INSTITUTION	TITLE / SUBJECT OF PRESENTATION (IF MADE)
100	August 3-5, 2004	Second International Conference on Artificial Intelligence in Engineering and Technology (ICAIET " 2004), at University Malaysia Sabah, Kota Kinabalu, Malaysia, Pp. 413-419	Automated Tumor Segmentation and Classification of MRI Pathological images using Unsupervised Artificial Neural Network and Image Processing Techniques
101	December 13-14, 2004	International Conference on Cognitive Systems (ICCS 2004) at New Delhi	Experimental Analysis of ANN Based Tissues Segmentation and Classification of Brain MR Images
102	December 17-19, 2004	First World Congress on Lateral-Computing (WCLC 2004) Bangalore India	Performance Analysis of Fuzzy Logic Based Filtering Techniques for Noise Reduction from Images

PARTICIPATION AND CONTRIBUTION IN NATIONAL/INTERNATIONAL IN THE AREA OF YOUR ACADEMIC AND PROFESSIONAL EXPERTISE

		NUMBER(S)
Plenary Lectures / Invited Talks	International Invited talks and keynote address for international conferences	12
	National Plenary lectures and workshops for national conferences	28
Congresses Attended	International First World Congress on Lateral-Computing (WCLC 2004) Bangalore India	1
	National 28 th Indian Engineering Congress, Chennai	1
Examinership etc.	International Ph.D evaluator in University of Technology, Sydney Australia & Kuwait University	2
	National Ph.D evaluator in Thapar Institute of Engineering and Technology University, University of Hyderabad, University of Kerala, Visvesvaraya Technological University, Pondicherry University and Anna University, Sri Venkateswara University	15
Others	International Athabasca University-Collaboration for Learning Analytics Research (Refer to Page no. 50) University of Madrid -Trust management integration with GridWay Scheduler (Refer to Page no. 51) Global Initiative of Academic Networks (GIAN) Course: Foreign Faculty – Dr. Sandeep Chatterjee; Course Co-ordinator – Dr. Thamarai Selvi. (Refer to Page no. 52)	3
	National Grid Middleware for Semantic Grid Services with C-DAC (Refer to Page no. 53)	1
	UGC Video Lecture on Cloud Computing	20 hrs

RESEARCH PROJECTS:

S. NO.	CLIENT/ ORGANIZATION'S NAME	NATURE OF PROJECT	DURATION OF PROJECT	AMOUNT OF GRANT (RS IN LAKHS)
1.	Indo-Canadian Shastri Institute, Canada	Tracing the Evolution of Learner Competency through Blended Online courses offered at Anna University (India) and Athabasca University (Canada)	Nov 2012 to Feb 2013	3.776
2.	UKIERI, UK, Scotland	Dundee University & Anna University Staff Exchange	June 2012- Aug 2012	2.415
3.	State Planning Commission State Government of Tamil Nadu – Tamil Nadu Innovation Initiative(TANII)	Design and Development of Unmanned Aerial Vehicle	2016-2019	2000
4.	Police Department, State Government of Tamil Nadu	Design and Development of Rotary Wing VTOL mini unmanned Aircraft System for Tamil Nadu Police	2014-2017	95
5.	UGC, Government of India	Efficient Management of resources in cloud	2013-2015	9.25
6.	DIT, Government of India	Centre for Advance Computing Research and Education (CARE)	2007-2012	220
7.	CDAC, Government of India	Development of Front-end Tools for Semantic Grid Services	2004-2006	18
8.	DIT, Government of India	Design and Development of Trust Components for Commercial Grid Services	2005 - 2007	45
9.	DRDL, Government of India	Development of Knowledge Based Wind Tunnel Test Data Management System	2005 - 2007	9.9
10.	CSIR, Government of India	Design and development of Enhanced OS for a Flosolver series of Parallel Processor having Flow switch	2004-2007	15

CONSULTING EXPERIENCE:

S.NO.	CLIENT / ORGANIZATION'S NAME	NATURE OF ASSIGNMENT	DURATION OF ASSIGNMENT
1.	Honeywell Technologies Solutions, Bangalore	Virtual Grid and Intelligent Grid Load Distribution System	2008-2009

HONOURS / AWARDS & FELLOWSHIPS FOR OUTSTANDING WORK:
(Refer to Annexure-VI)

S. NO.	NAME OF AWARD / FELLOWSHIP ETC.	ELECTED / HONORARY FELLOW	AWARDED BY	YEAR OF AWARD
1.	CSI-IEEE Joint Education Award	Elected	CSI-IEEE	2016
2.	Abdul Kalam Seva Ratna Award	Elected	Abdul Kalam Vision India	2015
3.	Technology Transfer Award	Elected	Anna University	2015
4.	Award for Social Work in Rescue Operation in Moulivakkam	Elected	Government of Tamil Nadu	2014
5.	Women Engineer Award	Elected	Indian Engineering Congress	2013
6.	UKIERI India UK Staff Exchange Award	Elected	UK and India	2012
7.	Active Researcher Award	Elected	Anna University	2011
8.	IBM Faculty Award	Elected	IBM	2008
9.	Award as Coach	Elected	The 2006 ACM-ICPC World Finals	2006
10.	Award for Best Technical Contributor on .NET	Elected	Microsoft	2003
11.	RAB Student Branch Membership Growth Award	Elected	IEEE Regional Activity Board- Region 10	2003

NO. OF RESEARCH SCHOLARS SUCCESSFULLY GUIDED:

NAME OF PROGRAMME	AWARDED (NO.) (UNDER-PROGRESS NOT TO BE INCLUDED)
Ph.D	14
M.S (By Research)	7