

Dr. THAMARAI SELVI SOMASUNDARAM

Vice-Chancellor, Thiruvalluvar University, Serkadu, Vellore

EDUCATIONAL QUALIFICATION:

S.NO	DEGREE	UNIVERSITY	GRADUATION YEAR	MAJOR
1	Ph.D.	Manonmaniam Sundaranar University	2000	Computer Science and Engineering
2	M.E.	Government College of Technology - Bharathiar University, Coimbatore	1991	Computer Science and Engineering
3	B.E.	Alagappa Chettiar College of Engineering and Technology, Karaikudi - Madurai Kamaraj University, Madurai	1982	Mechanical Engineering

FULL-TIME ACADEMIC/TEACHING EXPERIENCE:

S. NO	POST	ORGANIZATION / UNIVERSITY	DURATION	
			FROM	TO
1	Professor & Director CTDT	Anna University	May 2016	12 February 2019
2	Professor & Dean MIT Campus	MIT Campus, Anna University	July 2011	February 2015
3	Professor & Head Department of Computer Technology	MIT Campus, Anna University	May 2010	May 2011
4	Professor & Head Department of Information Technology	MIT Campus, Anna University	April 2007	April 2010
5	Professor & Head Department of Information Technology	MIT Campus, Anna University	March 2003	March 2006
6	Professor & Head Department of Computer Science & Engineering	GCE-Tirunelveli, Anna University	July 2002	February 2003
7	Reader & System Manager	Division of Controller of Examinations, Manonmaniam Sundaranar University	1994	2001
8	Reader & Head Department of Computer Science & Engineering	Manonmaniam Sundaranar University	March 1994	April 1995

ADMINISTRATIVE POST(S) & RESPONSIBILITIES:

S. NO	POSITION	NAME OF THE POST & AFFILIATION	DURATION	
			FROM	TO
1	Head of the Institution	Dean, Madras Institute of Technology (MIT), (Head of MIT), Anna University	2011	2015
2	Head of the Division	System Manager, Division of Controller of Examinations, Manonmaniam Sundaranar University	1994	1999
3	Head of the Department	Manonmaniam Sundaranar University	1994	1995
		Government College of Engineering, Tirunelveli	2002	2003
		MIT- IT (Information Technology)	2003	2006
		MIT- IT	2007	2010
		MIT-CT (Computer Technology)	2010	2011
4	Head of Centers	Director, Centre for Technology Development and Transfer (CTDT), Anna University, Chennai	May 2016	Till date
5	Chairman, Board of Studies	MIT - IT Department	2003	2005

IMPORTANT MOUS FORMULATED FOR ACADEMIC COLLABORATIONS:

S.NO	NAME OF AGENCIES / DEPARTMENTS INVOLVED	MOUS FORMULATED (RESEARCH /TEACHING/ OTHERS)	YEAR OF MOU
1	Anna University & Wright State University, Dayton, USA	Research Collaboration & Academic activities	2015
2	Anna University & National Institute of Technical Teachers" Training and Research (NITTTR)	Training young faculty members of Anna University with Teaching methodologies	2014
3	Anna University & DGP of TamilNadu	Knowledge transfer / Training in UAV	2014
4	Anna University & Centre for Development Of Advanced Computing (CDAC)	Research Collaboration with GARUDA Grid	2013
5	Anna University & University of Hyderabad	Research Collaboration in Training and conducting workshops	2010
6	Anna University & MIMOS, Malaysia	R&D in Advanced Computing	2009
7	Anna University & Athabasca University, Athabasca, Canada	Research Collaboration in Elearning	2009
8	Anna University & Honeywell Technology Solutions, Bangalore	Virtual Grid and Intelligent Grid Load Distribution System	2008
9	Anna University & Massey University, New Zealand	Collaboration in Information Science	2008
10	Anna University & The University of Cagliari, Italy	Research Collaboration with EUINDIA Grid	2007

PROFESSIONAL MEMBERSHIPS:

S.NO	MEMBERSHIP	DATE	MEMBER
1	Association for Computing Machinery (ACM)	Since 2011	Life Member
2	Computer Society of India (CSI)	Since 1994	Life Member
3	International Society for Technology in Education (ISTE)	Since 1995	Life Member
4	The Institution of Engineers (IE)	Since 1989	Life Member

INTERNATIONAL ACADEMIC EXPOSURE:

S. NO	CITY & COUNTRY	ORGANIZATION / UNIVERSITY VISITED	NATURE OF VISIT	PERIOD
1	Dolby & Brisbane, Australia	Dolby Model Aero Club, Dolby & Queensland University of Technology	Medical Express UAV Challenge 2018 & Research Discussion about UAV Applications at QUT	24,10.2018 - 03.11.2018
2	Shenzhen, China	UAV Industries in Shenzhen	Visiting UAV industries in China for setting up production facility in India	16 -18 October 2017
3	Washington DC, USA	IEEE International Conference on Big Data 2016	Presented paper on "Swarm Intelligence (SI) based Profiling and Scheduled on Big Data Applications"	5-8 December 2016
4	Denton, USA	University of North Texas	Research Collaboration in Cloud Computing, Big Data Analytics, UAV and other Engineering Education System	3-30 December 2016
5	Bloomington, USA	University of Indiana		
6	Oklahoma, USA	University of Oklahoma		
7	Cincinnati, Ohio, USA	University of Cincinnati		
8	Dayton, USA	Wright State University	Post Doctoral Visiting Scientist, Research discussion on Big data Analytics and Deep Learning	6-22 December 2016
			Visiting Scientist to explore collaboration in the field of Cloud Computing and E-Learning	25 May - 5 June 2015
9	Stanford, USA	Stanford University	To attend an event with expert for the GIAN course	4-10 November 2016
10	DeKalb, Illinois, United States	Northern Illinois University	Presented paper on "Determination of Competency of Programmers by Classification and Ranking using AHP"	21-23 May 2015

11	Kuala Lumpur, Malaysia	MIMOs Berhad	Research collaboration discussion	30 June - 4 July 2013
			Visit Grid Computing Lab, Research collaboration in Grid Computing	25-28 October 2010
12	Bangkok, Thailand	Kasetsart University	Presented our research work at PRAGMA 24	20-24 March 2013
13	Dundee, United Kingdom	University of Dundee	Visited under UKIERI Staff Exchange Programme	4-18 June 2012
14	Edmonton, Athabasca, Canada,	Athabasca University	Research collaboration and discussion on Elearning	9-22 April 2012
15	Vancouver, Canada	University of Victoria	Presented paper on "Learning Traces" in the Conference	10-11 April 2012
16	Dubai, UAE	Different Schools & Alumni Association in Gulf countries	Promotion of admission under Non-Resident Indians (NRI) / Children of Indian workers in Gulf Countries (CIWGC) / Foreign Nationals (FN)	26 Feb – 7 March 2012
17	Abu Dhabi, UAE			
18	Doha, Qatar			
19	Muscat, Oman			
20	Kuwait	Kuwait University	Presented paper on "Trusted Management System of Public Clouds" to the faculty and students	18-20 December 2012
			Expert member in Grid Computing, Attended Conference on e-Systems and e-Services	13-20 November 2009
			Visiting Professor, Research discussion on Neural networks and grid Computing	December 2006
21	Melbourne, Australia	University of Melbourne	Academic Researcher/ Post Doctoral Fellow, Visit Cloud Computing and Distributed Systems (CLOUDS) Lab, Presented research work on "CARE Resource Broker" in 10th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing	1-21 May 2010
			Academic Researcher, Research discussion on Cloud & Grid Computing environment	May 2007
			Academic visit, Research discussion on Grid Computing	May 2006 - June 2006
22	Geneva, Switzerland	Intl. Conference on Grid & Pervasive Computing	Presented paper on "Achieving Co-allocation through Virtualization in Grid Environment"	4-8 May 2009

23	Winnipeg, Canada	University of Manitoba	Research discussion in Grid Computing	November 2009
24	Toronto, Canada	McMaster University	Academic visit	November 2009
25	Oakland, California, USA	Marriott City Center	Presented paper on "Virtual Cluster Development for Globus"	12-16 May 2008
26	Karlsruhe, Germany	GridKa School	Attended Certificate course on "Grid Computing and e-Science"	10-14 September 2007
27	Palmerston North, New Zealand	Massey University	Academic visit and discussion for MoU Signing	2007
28	San Francisco, USA	The IASTED International Conference on Computational Intelligence (CI)	Presented paper "Semantic Matchmaking of Grid Services using Parameter Matchmaking Algorithm"	20-22 November 2006
29	Lille, France	International Conferences on Engg. Application(s) of Neural Network(s)	Presented paper on " Missile Defence and Interceptor Allocation by modified BIONET Neural Network"	24-26 August 2005
30	Sydney, Australia	The University of Sydney	Visiting Scholar, Discussion on Grid Computing	July 2005
31	London, UK	City, University of London	Academic Visit	August 2005
32	Singapore	National University of Singapore	Academic Visit	August 2004

RESEARCH AND ACADEMIC EVENTS CONDUCTED AT INTERNATIONAL LEVEL:

S. NO	TITLE OF EVENT	DEPARTMENT OF ANNA UNIVERSITY	DATE	ROLE
1	GIAN Course – "Advances in Aquifer Characterisation and Parameter Estimation" by Prof. Michael Schneider, Institute of Geological Sciences, Freie, University of Berlin.	Department of Geology	26 March 2018 - 6 April 2018	Local Coordinator
2	GIAN Course – "Smart Manufacturing 1.0" by Dr. Ananth Seshan, Managing Director, 5G Group of companies	Department of Manufacturing Engineering	12-16 March 2018	Local Coordinator
3	GIAN Course – "Physics&Technology of Functional Materials" by Dr. Roberto Fornari, University of Parma	Crystal Growth Centre	12-20 February 2018	Local Coordinator
4	GIAN Course – "Advanced X-ray diffraction techniques for the characterization of materials" by Dr. Claudio Ferrari, IMEM-CNR, Parma Italy	Crystal Growth Centre	17-25 January 2018	Local Coordinator

5	International Conference on Advanced Computing	Department of Computer Technology, MIT Campus	14–16 December 2017	General Chair
6	GIAN Course – Best Practices and Global Industry Standards for Computer and Digital Forensics by Dr. Sandeep Chatterjee, Stanford University, San Francisco, USA		4-9 November 2016	Course Coordinator
7	International Conference on Advanced Computing		19-21 January 2017	General Chair
8	International Conference on Advanced Computing		15-17 December 2015	General Chair
9	International Conference on Advanced Computing		17-19 December 2014	General Chair
10	International Conference on Advanced Computing		18-20 December 2013	General Chair
11	International Conference on Advanced Computing		13-15 December 2012	General Chair
12	International Conference on Advanced Computing		14-16 December 2011	Co-Chairman
13	International Conference on Advanced Computing & Utility and Cloud Computing		14-16 December 2010	General Chair
14	Ondemand creation of virtual node in gLite Grid Environment, MIMOS, Malaysia	CARE Lab, Department of Computer Technology, MIT Campus	August-November 2010	Research Coordinator
15	"Smarter Homes" by Dr. Sasanka Prabhala, Intel Corporation	Department of Computer Technology, MIT Campus	19 September 2010	Organizing Chairperson
16	First International conference on Advanced Computing ICAC, "Security and Trust" presented by Dr. Ruppa K. Thulasiram, University of Manitoba, Canada	Department of Information Technology, MIT Campus	13-15 December 2009	General Chair
17	First International conference on Advanced Computing ICAC, "e-Learning" by Dr. Vive Kumar, Athabasca University, Canada		13-15 December 2009	General Chair
18	First International conference on Advanced Computing ICAC, "Image Processing" by Dr. S. Narayanan, Wright State University, Dayton, USA.		13-15 December 2009	General Chair
19	International Conference on Advanced Computing and Communications, "Semantic grid Scheduling" by Dr. Rajkumar Buyya, University of Melbourne, Australia.		14 -17 December 2008	General Chair

NEW COURSES INTRODUCED:

S. NO	NAME OF THE COURSE	COURSE LEVEL (UG/PG) AND PROGRAM	UNIVERSITY IMPLEMENTED	DATE FIRST OFFERED
1	Cloud Computing	Master of Engineering, Computer Science & Engineering, Department of Computer Technology	MIT Campus, Anna University	February 13, 2010
2	Grid Computing	Master of Technology, Information Technology, Department of Information Technology	MIT Campus, Anna University	June 09, 2007

PARTICIPATION IN ACADEMIC AND PROFESSIONAL EXPERTISE AREAS:

Plenary Lectures / Invited talks Delivered	International 21 Invited talks and keynote address for international Conferences
	National 28 Plenary lectures and workshops for national Conferences
Ph.D Level Examiner ship	International : Ph.D evaluator for 2 students from 1. University of Technology, Sydney, Australia 2. Kuwait University, Kuwait
	National : Ph.D evaluator for 21 students from 1. Thapar Institute of Engineering and Technology University, 2. University of Hyderabad, Andhra Pradesh 3. University of Kerala, Trivandrum, 4. Visvesvaraya Technological University, Bangaluru, Karnataka 5. Pondicherry University, Pondicherry 6. Anna University, Chennai, Tamil Nadu 7. Sri Venkateswara University, Tripati, Andhra Pradesh 8. Manonmanium Sundaranar University, Tamil Nadu
Congresses Attended	International 1. First World Summit on Accreditation (WOSA), 25-28 March 2012 2. First World Congress on Lateral-Computing (WCLC 2004), 17-19 December 2004, Bangalore, India
	National : 28 th Indian Engineering Congress, Chennai
Special Courses Completed	<ol style="list-style-type: none"> Effective e-Teaching and Learning, International Institute of Information Technology, 4 October 2010-29 January 2011 Grid Computing and e-Science, International GridKa School, 10-14 September 2007 Accreditation of Technical Institutions, National Institute of Technical Teachers' Training and Research, 13-17 December 2004 C - Brainbench, 17 December 2000 Advanced Java Technologies, Cognizant Technology Solutions, 28 April 2000 PC-Based Solid Modelling Using AutoCAD, Indian Institute of Technology, Bombay 28 April-01 May 1997 Computer Aided User Services in Library, Anna University, Chennai, 8-20 June 1992 UNIX & C, Government College of Technology, Coimbatore, 1-14 December 1990 Microcomputers and Minicomputers, Anna University, Chennai, 15-29 May 1985

PATENTS FILED:

1. **Title of Invention:** A System and a method to assess the trustworthiness of a resource provider

Inventors	Dr. S. ThamaraiSelvi, 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 Application	March 23, 2007
Patentee	ANNA UNIVERSITY
Publication Date	April 20, 2007
Date of Grant	June 09, 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. ThamaraiSelvi, R. Kumar, P. Balakrishnan, K. Rajendar, G. Kannan, R. Rajiv
IP Type	National Level
Status	Published
Application Number	3027/CHE/2010
Date of Filing Application	October 13, 2010
Patentee	ANNA UNIVERSITY
Publication Date	February 15, 2013
Date of Grant	Awaiting

3. **Title of Invention:** Method and System to Deploy Grid Compute Nodes on Cloud

Inventors	Mohammed AmrilNurman, MohdNazir, MohdSidekSalleh, S. ThamaraiSelvi, 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	June 28, 2012
Patentee	MIMOS BERHAD and ANNA UNIVERSITY
Publication Date	June 27, 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. ThamaraiSelvi, Dr. Senthil Kumar, G. Kannan, Rashid
IP Type	National Level
Status	Published
Application Number	5536/CHE/2012
Date of Filing of Application	December 31, 2012
Patentee	ANNA UNIVERSITY
Publication Date	July 11, 2014
Date of Grant	Awaiting

5. **Title of Invention:** An Arming and Guidance Switch for an Unmanned Aerial Vehicle and a Method of Operating thereof

Inventors	Dr. Senthil Kumar, Dr. S. ThamaraiSelvi, A.S. Mohamed Rasheed, A.S. Abdul Jawad, C.U. Hari, S. Arul, R. Vasantharaj, M. Valayapathi, M. Muthuselvam
IP Type	National Level
Status	Submitted
Application Number	201841032030
Date of Filing of Application	August 27, 2018
Patentee	ANNA UNIVERSITY
Publication Date	Awaiting
Date of Grant	Awaiting

6. **Title of Invention:** Airborne based Intelligent Autonomous Landing system for UAV and a method of operating thereof

Inventors	Dr. Senthil Kumar, Dr. S. ThamaraiSelvi, A.S. Mohamed Rasheed, M. Muthuselvam
IP Type	National Level
Status	Submitted
Application Number	201841034795
Date of Filing of Application	September 14, 2018
Patentee	ANNA UNIVERSITY
Publication Date	Awaiting
Date of Grant	Awaiting

7. Title of Invention: Multirotor Unmanned Aerial Vehicle Powered by Fuel-Electric on board Generator

Inventors	Dr. Senthil Kumar, Dr. S. ThamaraiSelvi, A.S. Mohamed Rasheed, C.U. Hari, S. Arul, R. Vasantharaj, M. Valayapathi, K. Karthik
IP Type	National Level
Status	Submitted
Application Number	201841034144
Date of Filing of Application	September 11, 2018
Patentee	ANNA UNIVERSITY
Publication Date	Awaiting
Date of Grant	Awaiting

8. Title of Invention: Tethered Aerial Platform

Inventors	Dr. Senthil Kumar, Dr. S. ThamaraiSelvi, A. Mohamed Rasheed, C.U. Hari, R. Vasantharaj, D.Velan, V. Mathavan, S. Abdul Jawad
IP Type	National Level
Status	Published
Application Number	201841042078 A
Date of Filing of Application	November 08, 2018
Patentee	Dr. Senthil Kumar, Dr. S. ThamaraiSelvi,
Publication Date	November 16, 2018
Date of Grant	Awaiting

9. Title of Invention: Ground Object Position Annotation Using Standalone On-Board Embedded System

Inventors	Dr. Senthil Kumar, Dr. S. ThamaraiSelvi, A. Mohamed Rasheed, C.U. Hari, M. Kalaiselvan, Rushendar babu, Mathavan, Karthik, R. Vasantharaj, S. Arul, D.Velan, A. Abdul Jawad, M. Venkatesan, D. Kumaran, R. Madan kumar
IP Type	National Level
Status	Published
Application Number	201841042082 A
Date of Filing of Application	November 08, 2018
Patentee	Dr. Senthil Kumar, Dr. S. ThamaraiSelvi,
Publication Date	November 16, 2018
Date of Grant	Awaiting

CONTRIBUTION TO JOURNALS AND BOOKS:

S.NO	TITLE	NUMBERS
1	Books authored	6
2	Editor in chief	1
3	Editorships	1
4	Peer reviewer for International Journals	6
5	Member of the International Advisory Board	3
6	Proceedings	1
7	Book Chapters	2
8	Best Paper Award	3

RESEARCH PUBLICATIONS:

S.NO	CATEGORY	NUMBERS
1	Journals	72
2	International Conferences	137
3	National Conferences	38
4	Other articles	11

INDUSTRIAL CONSULTING EXPERIENCE:

S. NO	CLIENT NAME	NATURE OF ASSIGNMENT	DURATION	PROJECT VALUE (INR)
1	The Accountant General (E&RSA), Economic and Revenue Sector Audit	UAV based mapping for Volume calculation & modelling of Sand Quarry	2017-2018	15,18,660
2	Honeywell Technology Solutions, Bangalore	Virtual Grid and Intelligent Grid Load Distribution System	2008-2009	5,97,778

SPONSORED RESEARCH PROJECTS:

S. NO	TITLE OF PROJECT	SPONSOR NAME	DURATION	AMOUNT OF GRANT (INR)	ROLE
1	Design and Implementation of Micro QuadCopter UAV	Sub-Collector, Kumbakonam	2017-Ongoing	4,31,250	Principal Investigator
2	Unmanned Aerial Vehicle Photogrammetric Mapping for Flood Preparedness in the State of Tamil Nadu	Tamil Nadu State Disaster Management Agency– TN Innovation Initiative(TANII)	2017-2020	7,01,60,000	
3	Radio frequency identification device (RFID) based run timing device	Police Department, Tamil Nadu	May – August 2017	1,00,000	
4	Design and Development of Unmanned Aerial Vehicles (UAV)	State Planning Commission Tamil Nadu Innovation Initiative(TANII)	2016-2019	20,00,00,000	
5	Supply of UAV – Dhaksha, Ground Control Station (Rugged PC, Remote Video Terminal, Tripods Ground Trans receivers and Antennae) and Accessories (1 unit)	State Police Chief, Kerala, Thiruvananthapuram	2017-Ongoing	25,00,000	
6	Supply design, development, training, maintenance, etc of Rotary Wing VTOL Mini Unmanned Aircraft (01 unit) with standard accessories	Government of West Bengal, Office of the Commissioner of Police, Kolkata	2017-2018	26,00,000	
7	Design and Development of Rotary Wing VTOL Mini Unmanned Aircraft System for TN Police	State Planning Commission Tamil Nadu Innovation Initiative(TANII)	2014-2017	95,00,000	Co-Investigator
8	Efficient Management of resources in cloud	UGC, Govt. of India	2013-2015	14,23,300	Principal Investigator
9	Design and Development Of Trust Components for Commercial Grid Services	DIT, Government of India	2005-2007	45,00,000	Principal Investigator
10	Development of Knowledge Based Wind Tunnel Test Data Management System	DRDL, Government of India	2005-2007	12,00,000	Principal Investigator

11	Design and development of Enhanced OS for a Flosolver series of Parallel Processor having Flow switch	CSIR, Government of India	2004-2007	15,00,000	Principal Investigator
12	Development of Front-end Tools for Semantic Grid Services	CDAC, Government of India	2004-2006	11,00,000	Principal Investigator
13	Missile Defence and Interceptor Allocations by RBF Neural Networks	DRDO, Ministry of Defence	2004-2006	12,00,000	Principal Investigator

AWARDS & CERTIFICATIONS RECEIVED:

S.NO	NAME OF AWARD OR FELLOWSHIP	AWARDED BY	YEAR
1	Second place in Medical Express UAV challenge 2018	UAV challenge, Australia	2018
2	World record Initiative – Long endurance multi rotor UAV	FAI , Switzerland	2018
3	Dr. A.P.J. Abdul Kalam Award	Government of Tamil Nadu India	2018
4	CSI-IEEE CS Joint Education Award	CSI-IEEE CS	2016
5	Abdul Kalam 'Seva Ratna' Award	Abdul Kalam Vision India	2015
6	Best Technology Transfer Award	Anna University	2015
7	Certificate of Appreciation for assisting in Rescue & Relief Operations in a building collapse	Government of Tamil Nadu	2014
8	Woman Engineer Award	Indian Engineering Congress	2013
9	Active Researcher Award	Anna University	2011
10	IBM Faculty Award	IBM	2008
11	Certificate of Achievement as Coach	The 2006 ACM- ICPC World Finals	2006
12	Certificate of Appreciation for Best Technical Contributor on .NET	Microsoft	2003
13	RAB Student Branch Membership Growth Award	IEEE Regional Activity Board- Region 10	2003
14	Certificate for Excellence for Outstanding Services, Achievements and Contributions	Government of India	2001
15	Cognizant Certified Faculty	Advance Java Technologies	2000

WORLD RECORDS:

FAI has received the following Class U (Unmanned Aerial Vehicles (UAV)) World record claim

Claim number	: 18694
Sub-class	: U-3 / Multicopter
Category	: 6: 5 kg to less than 25 kg
Group: 1	: Internal combustion and Jet
Type of record	: Duration
Course/location	: Chennai, TN (India)
Performance	: 6 h 7 min 45 sec
Team	: Centre for Aerospace Research MIT Campus, Anna University (India)
Team Coordinator	: Dr. S.Thamarai Selvi
Team Lead	: Dr.K. Senthil Kumar
Pilot	: Dr. A. Mohamed Rasheed
Co-Pilot	: Shri. S. Arul
Technical Advisor	: Shri. C.U. Hari
Date	: July 11, 2018
Current record	: No record set yet

UAV CHALLENGE:

Team DHAKSHA (Part of the Team DHAKSHA) got **Second place** in the International competition “Medical Express UAV challenge 2018” conducted at Australia.

BOOK CHAPTER

1. Vivekanandan Suresh Kumar, Kinshuk, **Thamarai Selvi Somasundaram**, David Boulanger, Jeremie Seanosky and Marcello F. Vilela, “Big Data Learning Analytics: A New Perspective”, Ubiquitous Learning Environments and Technologies, Springer, pp. 139-158, 2015.
2. Vive Kumar, Kinshuk, Thamaraiselvi Somasundaram, Steve Harris, David Boulanger, Jeremie Seanosky, Geetha Paulmani and Karthikeyan Panneerselvam, “An Approach to Measure Coding Competency Evolution Toward Learning Analytics”, Smart Learning Analytics, Springer, pp. 27-43, 2015.

PAPERS PUBLISHED IN JOURNALS

1. Vivekanandan Kumar, David Boulanger, Jeremie Seanosky, Kinshuk, Karthikeyan Panneerselvam, **Thamarai Selvi Somasundaram**, “**Competence Analytics**”, Journal of Computers in Education, Vol. 1, No. 4, pp. 251-270, 2014.
2. Thomas Vissers, **Thamarai Selvi Somasundaram**, Luc Pieters, Kannan G, Peter Hellinckx, “**DDoS defense system for web services in a cloud environment**”, Future Generation Computer Systems (FGCS), Elsevier Publications, Vol 37, pages 37-45, 2014.
3. S. Rajalakshmi, **S. Thamarai Selvi**, G. Kannan, “**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.
4. **Thamarai Selvi Somasundaram**, Kannan. G, “**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.
5. **Thamarai Selvi Somasundaram**, Kannan. G, “**Semantic-enabled CARE Resource Broker (SeCRB) for Managing Grid and Cloud Environment**”, Journal of Supercomputing, Springer Publications, Published Online, 2014.
6. P.Varalakshmi, **S. Thamarai Selvi**: “**Thwarting DDoS attacks in grid using information divergence**”, Future Generation Computer Systems, 29(1): 429-441 2013.
7. Valliyammai Chinnaiyah, **Thamarai Selvi Somasundaram**, “**A Grid resource brokering strategy based on resource and network performance in Grid**”, Future Generation Computer Systems, 28(3), March 2012, pp 491-499
8. R. Kumar, **S. Thamarai Selvi**, “**Trust Management system for computational grids**”, European Journal of Scientific Research, Vol.79, No. 1, pp. 15-23, 2012.
9. Valliyammai, C. and **Thamarai Selvi**, S “**Mobile Agent based Resource Monitoring for job submission in Grid with Virtual Database**”, Journal of Internet Technology, 2012.
10. P Balakrishnan, **Thamarai Selvi Somasundaram**, “**SLA enabled CARE Resource Broker**”, Future Generation Computer System, Elsevier, 2011.
11. P.D. Manuel, Mostafa Ibrahim Abd-El Barr, **S. Thamarai Selvi**, “**A Novel Trust Management System for Cloud Computing IaaS Providers**”, Journal of Combinatorial Mathematics and Combinatorial Computing, Vol. 79, pp.3, 2011.
12. Valliyammai, C. and **Thamarai Selvi**, S. “**Mobile Agent based Automated Deployment of Resource Monitoring Service in Grid**”, Ubiquitous Computing and Communication Journal, Vol. 6, No. 2, pp. 786-790, 2011.

13. **S. Thamarai Selvi**, R. Malmathanraj, "**Mammogram tumour classification using Q learning**", International Journal of Biomedical Engineering and Technology, Vol. 7, No. 4, 2011.
14. D. Selvathi, **S Thamarai Selvi**, "**Support value transform-based multimodality medical image fusion**", International Journal of Healthcare Technology and Management, Vol. 12, No. 5, pp.457-470, 2011.
15. **Thamarai Selvi Somasundaram**, Kumar Rangasamy, Kannan Govindarajan, Balakrishnan Ponnuraman, Balachandar R Amarnath, Rajendar Kandan, Rajiv Rajaian, Mahendran Ellappan, Madhusudhanan Bairappan, Rajesh Britto Gnanaprakasam, "**VCDE: a toolkit for virtual cluster creation for grid environment**", International Journal of Parallel Emergent and Distributed Systems, Vol. 26, No. 6, pp. 443-455, 2011.
16. Valliyammai, C., **Thamarai Selvi**, S., Satheesh Kumar, R., Pradeep, E. and Naveen, K. "**An alternate approach to Resource Allocation Strategy using Network Metrics in Grid**", International Journal of Grid Computing and Applications (Impact Factor: 1.667) Vol. 1, No. 2, pp. 27-37, 2010.
17. **S. Thamarai Selvi**, Ponsy RK SathiaBhama, S. Architha, T. Kaarunya, K. Vinothini, "**Scheduling in Virtualized Grid Environment using Hybrid Approach**", International Journal of Grid Computing and Applications (Impact Factor: 1.667), 2010.
18. C.Valliyammai, **S. Thamarai Selvi**, R. Satheesh Kumar, E Pradeep, "**An Alternate Approach to Resource Allocation Strategy Using Network Metrics in Grid**", International Journal of Grid Computing and Applications (Impact Factor: 1.667), Vol. 1, No. 2, pp. 27-37, 2010.
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