

Research and Development

Funded Projects Applied

S.No	Project Title	Funded Agency	Duration	Cost	Investigator and Co-Investigator Details
1	A Predictive Model through Clinical Data Analytics to eradicate Hospital Acquired Infections(HAI) caused by Multi Drug Resistant (MDR) bacteria in Government Hospital environment	RPS - AICTE	3 years	Rs.21,05,500/-	Dr.J.Janet Principal Dr.S.Shankar Professor & Head
2	A Decision Support System For The Reclamation Of Waste Land Through Solid Waste Manure	WMT - DST	1 year	Rs.22,05,500/-	Dr.T.Senthilnathan Professor Ms.N.Susila Associate Professor Ms.J.Granty Regina Elwin Assistant Professor
3	MODRABS : Wireless Laboratory	AICTE	1 year	Rs.20,00,000/-	Dr.M Rajkumar Associate Professor

Ongoing Funded Projects

S.No	Project Title	Funded Agency	Duration	Cost	Investigator and Co-Investigator Details
1	Intelligent Farms	DST-IEDC	1 year	1,00,000	Dr.S.Shankar Professor & Head Praveen Kumar V - IV IT A Arjun KR - III IT A Harish M - III IT A Gayathri S - III IT A

Completed Funded Projects

S.No	Project Title	Funded Agency	Duration	Cost	Investigator and Co-Investigator Details
1.	A Study on Environmental Monitoring System(EMS) using WSN and its Implementation	AICTE Research Promotion Scheme	2014-2015	280000	Dr.N.K.Karthikeyan
2.	Expert System and E-Learning tool for the diagnosis of Nutritional deficiency in sugarcane crop	TNAU Coimbatore	2009	Appreciation	Dr S Shankar
3.	Voice Based Automated Wheel Chair for Handicap (Product Design)	TNSCST	2009	5000	Ms N Susila
4.	Resource Allocation in Multimedia cellular networks using optimization techniques and performance issues in IEEE 802.11 WLAN	CSI R&D	2006-2007	50000	Dr.N.K.Karthikeyan

Publication Details

Sl. No	Name of the Staff with Designation	Name of the Journal	Title of the Paper Published
June 2016 to Dec 2016			
1.	Ms.T.Keerthiga	International Journal of Chemical and Pharmaceutical Sciences,ISSN:0974-2115, Volume 9 Issue 2, April-June 2016.	Rough Set Reduct Algorithm based Feature Selection for medical domain
2.	Sujatha, T	International Journal of Advanced Engineering Technology, vol. VII, no. 2, pp. 978-987 ISSN: 0976-3945, June 2016.	Multi Wavelet Transforms and Oppositional Particle Swarm Optimization for an efficient Reversible Image Watermarking
3.	Mr.K.Venkatachalam, Associate Professor Mr.N K Karthikeyan, Professor	Middle-East Journal of Scientific Research, Vol.24, pp.2239-2246, July 2016.[DOI: 10.5829/idosi.mejsr.2016.24.07.23695]	Bridging the semantic Gap in semantic web service discovery through support vector machines and feedback mechanism
4.	Sruthi Anand Assistant Professor	Indian Journal of Science and Technology, Vol 9(45), DOI: 10.17485/ijst/2016/v9i45/95582, December 2016.	Effective Data Transfers through Parallelism in Cloud Networks
5.	Ms.T.Eswari Assistant Professor	International Journal of Biomedical Engineering and Technology(Accepted for publication)	Diabetic Data Analysis in Health Care using Hadoop Architecture over Big Data
6.	Ms.S.Lavanya Assistant Professor	International Journal of Biomedical Engineering and Technology(Accepted for publication)	Diabetic Data Analysis in Health Care using Hadoop Architecture over Big Data
7.	Ms.S.Kalpna Associate Professor	International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 3,Page no: 1792 - 1800 December 2016, ISSN 2320-4387.	A Novel Mathematical Based Context aware Decision Making during Vertical Handover in

			Heterogeneous Wireless Networks.
8.	Sujatha, T Associate Professor	Asian Journal of Information Technology, vol. 15, no. 17, pp. 3311-3319, ISSN: 1682-3915, Dec 2016.	Dynamic Prediction Error Integrated Reversible Image Watermarking

Sl. No	Name of the Staff with Designation	Name of the Journal	Title of the Paper Published
June 2015 to Dec 2015			
1.	Dr.N.K.Karthikeyan	International Journal of Applied Engineering Research,ISSN 0973-4562,Volume 10,Number 9,2015	Secure and Effectual Energy Dynamic Routing Protocol for In-Network Aggregation in WSN
2.	Ms.T.Keerthiga	International Journal of Engineering Research and Technology(IJERT) NCACS -2015 Conference Proceedings, June 2015	Medical Domain Based Feature Selection Using Rough Set Reduct Algorithm
3.	S.Lavanya,	International journal of security & networks-Inderscience publications, Vol: 10, No:2, 2015,pp.65-75. (Impact Factor-1.93)	A Novel scheme for secure group communication in Multicast Network
4.	Eswari, T S.Lavanya	Wireless Personal Communications – Springer, published in the month of October 2015, Impact factor: .865. (Annexure – I)	Signature Based Vulnerability Detection Over Wireless Sensor Network for Reliable Data Transmission
5.	V. Saranya	International Journal of Advanced Research in Electronics and Communication Engineering, Volume.4.Issue.11. November-2015, pp.2724-2729, Impact Factor: 4.295.	Human Surveillance And Alert System Using Rfid
6.	Ms.V. Saranya & Dr S Shankar	International Journal of Networking and Virtual Organizations, Vol. 15, No. 4 December 2015 impact factor: 0.50	Study of various routing protocols in MANETs
7.	Granty Regina Elwin J	Australian Journal of Forensic Sciences, Jan2016, DOI: 10.1080/00450618.2015.1128966	Spectral-hashing-based image retrieval and copy-move forgery detection
8.	Ms.N.Susila	International journal of Applied Engineering Research, Volume 11 Issue No 1, PP599-605,January 2016.	Energy efficient extended FCFS load balancing in data centers of cloud

9.	Mr.Rajkumar M	Wireless Personal Communications, Springer US, Volume 86, Issue 3 , pp 1611-1627 ; DOI: 10.1007/s11277-015-3010-1; ISSN: 0929-6212 (print version), ISSN: 1572-834X (electronic version), February 2016.(Impact Factor:0.865).	A Preference-Based Protocol for Trust and Head Selection for Cluster-Based MANET
10	Ms.M P Geetha	International Journal of Advanced Research in Computer and Communication Engineering Vol. 5, Issue 4, April 2016,pp:820-823.(Impact Factor:5.332).	Efficient Single/Concurrent Failure Detection for Mapreduce Application in Heterogeneous Node

Sl. No	Name of the Staff with Designation	Name of the Journal	Title of the Paper Published
June 2014 – Dec 2014			
1.	Dr. N.K.Karthikeyan	International Journal of Research in Computer Applications & Information Technology, Volume 2, Issue 3, June 2014, pp.9-15.	Prolonging the Lifetime of Wireless Sensor Network in Delay-Tolerant Network with a Mobile Sink and Base Station
2.	Mr.M.Rajkumar,	Applied Mechanics and Materials, Trans Tech Publications, Switzerland, ISSN: 1660-9336, Vol. 550, 2014, pp.210-219.	Cluster Based Geographical Routing (CBGR) for MANETs
3.	Mr.M.Rajkumar,	Journal of Theoretical and Applied Information Technology, Vol: 64, No: 3, ISSN: 1992-8645, E-ISSN: 1817-3195, 2014, pp.837-844	A New Approach to Trust Evaluation for Cluster Based MANETs
4.	Mr.M.Rajkumar, Dr.S.Shankar	International Journal of Engineering and Technology, Volume 6, No 4, E-ISSN: 0975-4024, P-ISSN: 2319-8613, September 2014, pp.1778-1785.	Internal and External factors based clustering algorithm for MANET
5.	Dr.N.K.Karthikeyan	P.Thirumoorthy, „”, AENSI Journals of Advances in Natural and Applied Sciences. Volume 8, No 16, 2014, pp.8-14.	An Effectual Routing Protocol for In-Network Aggregation in Wireless Sensor Networks
6.	N.Susila	Journal of Emerging Technologies in Web Intelligence, Vol. 6, No. 4, November 2014,pp.435-440.	A Fuzzy based firefly algorithm for dynamic load balancing in cloud computing Environment
7.	S.Lavanya	Lecture notes series in Electrical Engineering-Advances in Intelligent systems & computing-Springer Verlag, Vol-324, No-17, 2014,pp.793-802.(Impact	Group based Access Technique for effective resource utilization & Access control mechanism

		Factor-0.16)	in cloud
8.	Ms.K.S.Sangeetha	Artificial Intelligence and evolutionary Algorithms in Engineering Systems Volume 324 of the Series Advances in Intelligent Systems and Computing,pp 701-707,November 2014	Green Algorithm for Virtualized Cloud Systems to Optimize the Energy Consumption
9.	K.S.Sangeetha	Journal of advances in Intelligent and Soft Computing Springer series, Volume 325, December 2014, pp.773-778.	Big data and Cloud: A Survey
10	Dr. N.K.Karthikeyan	International Journal of Mobile Network Design and Innovation, Vol 6, No 1, May 2015, pp.51-62. Impact factor = 0.797.	Adaptive Clustering and Routing using Fuzzy Decision model in WSN
11	Dr. N.K.Karthikeyan	Publication of Book Journal, Mobile Computing A book of Readings, 2015, pp.200-212.	Fuzzy Predicative PertiNet and T-invariant Analysis based Cloud Service Recommendation using Cloud Service Ontology
12	Dr.S.Shankar	International Journal of Applied Engineering Research, Vol. 10, No.31, May 2015, pp.23326-23330.	Performance evaluation of scheduling schemes in Wireless sensor Networks
13	Dr.S.Shankar	International Journal of Applied Engineering Research, Vol. 10, No.9,2015, pp.8445-8451.	A Survey on Real time Data Scheduling Schemes in Wireless sensor networks
14	V.Anand Kumar	Australian Journal of Basic and Applied Sciences, Volume 9, No 7, April 2015, pp. 669-676.	Security Based on Context –Aware Adaptive Routing In Delay Tolerant Mobile Ad Hoc Networks
15	S.Lavanya Eswari, T	Elsevier Proceedings Computer Science, published in the month of May 2015, ISSN	Predictive Methodology for

		No: 1877-0509, DOI: 10.1016/j.procs.2015.04.069, (Impact factor: 1.2)Volume 50, 2015,pp.203-208.	Diabetic Data Analysis in Big Data
16	S.Lavanya	Australian Journal of Basic and Applied Sciences, Vol 9, No 16, April 2015, pp.204-210.	A Provision of Secure Group Communication and Reduced Overheads in Grid Circumstances
17	G.Nithya	ARNP Journal of Engineering and Applied Sciences, ISSN 1819-6608, Annexure II, Vol 10. No.5, March 2015, pp.2082-2087.	Cloud Based Search Engine
18	G.Nithya	International Journal of Emerging Technology and Advanced Engineering, ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 2, February 2015,pp.378-383.	A Jumper Based Ant Colony Optimization For Software Project Scheduling And Staffing With An Event-Based Scheduler
19	Saranya G.V.	International journal of Advanced Research Trends in Engineering and Technology (IJARTET) ISSN: 2394-3785, Volume-II, Special Issue VIII, Feb- 2015,pp.106-111.	Scheduling the Monitors for Efficient Data Capture in Cognitive Radio Networks for Network Forensics
20	S.Asha	International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, Number 6, Jan 2015, pp. 15475-15491.	ANFIM: Adaptive Neuro Fuzzy Inference Model for Content Based Image Retrieval
21	V.Anand Kumar	International Journal of Applied Engineering Research, Vol. 10, No.23(2015), pp.43737-43740.	Improving the performance using shared spread protocol in issue guarantee protocol over delay tolerant network.
22	T.Sangeetha	IJCSEC International Journal of Computer Science and Engineering Communications Vol.3 Issue 2,2015,Page 854- 861,ISSN:2347-8586	Remote Data Auditing Scheme in secured Cloud Storage Environment

Sl. No	Name of the Staff with Designation	Name of the Journal	Title of the Paper Published
June 2013 – Dec 2013			
1.	Mr.K.Venkatachalam	International Journal of Scientific and Engineering Research, Volume 4 Issue 6 June 2013	Significant analysis of terms in bootstrapping ontology for For Web Services
2.	Saranya.V	International Journal of Latest Trends in Engineering and Technology (IJLTET),Vol 3, Issue 1, September 2013,pp.225-232.	Randomized Multipath Routes for Secure Data Delivery in Wireless Sensor Networks
3.	Dr N.K.Karthikeyan,	Journal of Theoretical and Applied Information Technology, Vol 55,No 1, ISSN: 1992-8645,E-SSN: 1817-3195, September 2013, pp-33-38.	Task Scheduling Algorithm based on Hybrid Particle Swarm Optimization in Cloud Computing Environment
4.	Dr.N.K.Karthikeyan	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 2,Issue 9, September 2013,pp.2373-2378.	An Overview on Performance Issues in Cloud Computing
5.	Dr N.K.Karthikeyan	International Journal of Computer Applications (0975-8887), Volume 81, No 2, November 2013,pp.15-18.	From Data Warehouses to Streaming Warehouses: A Survey on the Challenges for Real-Time Data Warehousing and Available Solutions
6.	Ms G Shobana, Ms V Saranya, Mr A Velusamy	International Journal of Engineering Research & Technology (IJERT), ISSN:	Efficient Mechanism to Discover Frequent

		2278-0181, Vol. 2 Issue 12, December 2013, pp.2306-2311.	Pattern over Online Data Streams
7.	Dr.N.K.Karthikeyan	International Journal of Research in Computer Application & Information Technology, Volume 1, Issue 2, October-November 2013, pp.96-101.	An Elevated Approach for Privacy Protection in Knowledge Discovery
8.	S Lavanya	Life Science Journal, Vol. 10, No 2, June 2013, pp.1468-1477. (Impact Factor: 0.165)	Design and Performance Analysis of Scalable and Efficient Group Key Management Scheme [SEGKMS] for Group Communication in Multicast Networks
9.	A.Velusamy, A M Ratheeshkumar, G Shobana	International Journal of Computer Science and Mobile Computing, Vol. 3 Issue 1, January 2014, pp. 204-209.	An Optimized Solution to Map Web User Profile Based on Domain Ontology
10	Dr N.K.Karthikeyan,	International Journal of Innovative Research in Science, Engineering and Technology, ISSN: 2319-8753, 2347-6710, Volume 3, Special Issue 1, February 2014,pp.207-211.	A Review on Routing Protocols for In-Network Aggregation in Wireless Sensor Networks
11	C. Jaya Bharathi	International Journal of Innovative Research in Computer and Communication Engineering, Vol. 2, Issue 2, February 2014,pp.3080-3088.	Detection of Drowsiness in Human Eye using SVM
12	T.Sujatha	Journal of Theoretical and Applied Information Technology (JTAIT), Vol 60,	Reversible Image Watermarking using Biorthogonal

		Issue3, Feb 2014,pp.531-542.	wavelet Transform & Importance Measure Model
13	A Velusamy, V Saranya, G Shobana	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), Volume 3, Issue 2, February 2014,pp.116-122.	Image Denoising By Soft Shrinkage In Adaptive Dual Tree Discrete Wavelet Packet Domain
14	D.Sudharson	International Journal of Computer Trends and Technology(IJCTT), ISSN-2231-2803,Volume 9, Number 1, March 2014, pp.41-44.	Facial Image Noise Removal Via a Trained Dictionary
15	V.Priya	International Journal of Innovative Research in Computer and Communication Engineering, Vol 2, Issue 1, March 2014,pp.2223-2227.	Reversible Information Hiding in Videos
16	D.Ramya	International Journal of Theoretical & Applied Information Technology, Vol 63, No 3, May 2014,pp.579-582.	A Comparative Analysis of Markov model with Clustering & Association rule mining for better webpage prediction

INTERNATIONAL CONFERENCE

Sl. No	Name of the Staff	Name of the Journal	Title of the Paper
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	with Designation		Published
Jan 2014 – May 2014			
1.	Dr N.K.Karthikeyan	International Conference on Innovative Research in Engineering & Technology(ICIRET-2014) at E.G.S Pillay Engineering College, Nagapattinam on 02.05.2014&03.05.14.	Online non negative matrix factorization method for the classification of high Dimensional Biological Data
2.	Dr N.K.Karthikeyan	International Conference on Innovative Research in Engineering & Technology(ICIRET-2014) at E.G.S Pillay Engineering College, Nagapattinam on 02.05.2014&03.05.14.	A birds Eye View of Data mining in Medical Field

Consultancy Projects

S.No	Name of the Organization	Project Details	Duration	Cost	Team Members
1.	S & T Workshop. Southern Railways	WISE - Workshop Information SystEm	Oct 2015 to Jan 2016 (4 months)	0.1 lakhs	Dr. S. Shankar Ms.Ramalakshmi
2.	S & T Workshop. Southern Railways	Barcode Generation for Q Relays	Nov 2016 – till Date	-	Dr. S. Shankar Ms.Ramalakshmi
3.	S & T Workshop. Southern Railways	Management Information System (MIS) for Railways	Nov 2016 – till Date	-	Dr. S. Shankar Ms.Ramalakshmi