


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. T. SETHUKARASI / T0260			
Designation	Professor and Head			
Department	Computer Science and Engineering			
Date of Joining the Institution	10.12.2003			
Qualifications	B.E., M.E., M.S., Ph.D.			
Total Experience	Overall : 27 years		in RMK : 19	
Papers Published in Journal	Overall : 59		After Joining RMK : 59	
List of Papers Published	<ol style="list-style-type: none"> 1. T. Sethukarasi, A Abdur Rahman, S Angu Hari Hara Karthik, J Karthikeyan, "Voice and Gesture Controlled Wheel Chair", "IEEE Explore", ISBN:978-1-6654-5687-6, Mar 2023. 2. S. Kingsley and T. Sethukarasi, "Flower pollination student psychology optimization-integrated context deep learning and probabilistic-based fusion for image inpainting", "International Journal of Wavelets, Multiresolution and Information Processing", 0219-6913, Dec 2022. 3. Chitti Babu Karakati, Sethukarasi Thirumaaran, "Software Code Refactoring based on Deep Neural Network-Based Fitness Function", "Concurrency and Computation: Practice and Experience", https://doi.org/10.1002/cpe.7531, Nov 2022. 4. Muruganantham Manickam, Rathinavelayutham Siva, Saravanan Prabakeran, Kannan Geetha, Varadharajan Indumathi, Thirumaaran Sethukarasi, "Pulmonary disease diagnosis using African vulture optimized weighted support vector machine approach", "International Journal of Imaging Systems and Technology", Online ISSN:1098-1098, Volume 32, Issue 3, Pages 843-856, May 2022. 5. E.Karthik, T.Sethukarasi, "A Centered Convolutional Restricted Boltzmann Machine Optimized by Hybrid Atom Search Arithmetic Optimization Algorithm for Sentimental Analysis", "Neural Processing Letters", Volume 54, Issue 5, Oct 2022, pp 4123-4151. https://doi.org/10.1007/s11063-022-10797-7, Apr 2022. 6. R. Renuga Devi, T. Sethukarasi, "Develop Trust-Based Energy 			

	<p>Routing Protocol for Energy Efficient with Secure Transmission", "Wireless Personal Communications", https://doi.org/10.1007/s11277-021-09266-6, Nov 2021.</p> <p>7. S. Vaishnavi, T. Sethukarasi, "Detection and Avoidance of Clone Attack in IoT based Smart Health Application", "Intelligent Automation & Soft Computing", Vol.31, No.3, 2022, pp.1919-1937, Oct 2021.</p> <p>8. R. Renuga Devi, T. Sethukarasi, "An Energy Efficient Routing based on a Hybrid improved Whale Artificial Ecosystem Optimization Algorithm in WSN", "Concurrency and Computation Practice and Experience", https://doi.org/10.1002/cpe.6639, Oct 2021.</p> <p>9. S. Srijayanthi, T. Sethukarasi, "A Real-Time Data Clustering Scheme Using K-Medoids Based Optimal Neural Network Approach for Integrating Demographics and Diagnosis Codes", "IETE Journal of Research", https://doi.org/10.1080/03772063.2021.1977192, Oct 2021.</p> <p>10. E. Karthik, T. Sethukarasi, "Sarcastic user behavior classification and prediction from social media data using firebug swarm optimization-based long short-term memory", "The Journal Of supercomputing", https://doi.org/10.1007/s11227-021-04028-4, Sep 2021.</p> <p>11. G. Vasukidevi, T. Sethukarasi, "BBSSE: Blockchain-Based Safe Storage, Secure Sharing and Energy Scheme for Smart Grid Network", "Wireless Personal Communications", ISSN 0929-6212 Online, Apr 2021.</p> <p>12. Sethukarasi T, Sivagami S, Mr. Harish Kumar R, Mr. Hariharan R, Mr. Hariharan D, "Survey Paper on Automated Health Peril Predictor Using Naive Bayes Classifier and MAX30102", "Turkish online journal of qualitative inquiry", Volume 12, Issue 04, April 2021: 2157-2166, Apr 2021.</p> <p>13. T. Sethukarasi., K C. Sakthi Siva Parvathi, S. Supraja Arthi, R.Yuvasree, "Real Time Localized Multi Object Detection System", "Turkish online journal of qualitative inquiry", Volume 12, Issue 04, April 2021: 2336-2345, Apr 2021.</p> <p>14. R.Renuga Devi, Dr. T. Sethukarasi, "Energy Harvesting in physical sensors using Hybrid Selection of Active nodes in Optimized GAF protocol for Wireless Sensor Networks.", "Solid State Technology", ISSN: 0038 111X Vol. 63 No. 6, Dec 2020.</p> <p>15. D. Shiny Irene, T. Sethukarasi, "Efficient Kernel Extreme Learning Machine and Neutrosophic C-means based attribute weighting method for medical data classification", "Journal of</p>
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Circuits, Systems and Computers", ISSN 0218-1266 vol.29, issue 8, Nov 2020.

16. T. Suriya Praba, S. Saravanan, **T. Sethukarasi**, "An Efficient Energy Aware Semigraph-Based Total Edge Domination Routing Algorithm in Wireless Sensor Networks", "Wireless Personal Communications", ISSN 0929-6212 Pp 1- 17, Nov 2020.
17. D. Shiny Irene, **T. Sethukarasi**, N. Vadivelan, "Heart disease prediction using hybrid Fuzzy K-medoids attribute weighting method with DBN-KELM based regression model", "Medical Hypothesis, Elsevier", ISSN: 0306-9877, Oct 2020.
18. Subha, P. Narmadha, S. Nivedha, **T. Sethukarasi**, "Real-Time Suspicious Human Action Recognition from Surveillance Videos for Resource-Constrained Devices", "Journal of Computational and Theoretical Nano Science", ISSN 1546-1955 Vol 17, No.8, 3790-3797, Aug 2020.
19. D. Shiny Irene, Chitra Pasupathi, and **T. Sethukarasi**, "A Comprehensive Analysis of Data Mining Techniques Adopted to Affluence Classification and Retrieval in Health Record Databases", "Journal of Computational and Theoretical Nano Science", ISSN 1546-1955 Vol 17, No8 pp 3733-3743, Aug 2020.
20. Ashwin Kanna K, Abhishek CH, Jaison S, **Dr Sethukarasi T**, "An Effective Analysis and Prediction of Diabetes using LightGBM Algorithm", "Bioscience Biotechnology Research Communication", ISSN: 0974-6455 Special Issue Vol 13 (6)pp 300-305, Aug 2020.
21. Prabakeran S, **Sethukarasi T**, "Optimal solution for malicious node detection and prevention using hybrid chaotic particle dragonfly swarm algorithm in VANETs", "Wireless Networks", ISSN2366-1186 Vol 26, pp 5897–5917, Jul 2020.
22. S. Vaishnavi, **T. Sethukarasi**, "SybilWatch: a novel approach to detect Sybil attack in IoT based smart health care", "Journal of Ambient Intelligence and Humanized Computing", ISSN 1868 5137, Jun 2020.
23. T. Suriya Praba, S. Pooja Laxmi, **T. Sethukarasi**, R. D. Harshitha, Veeramuthu Venkatesh, "Green IoT (G-IoT): An Insight on Green Computing for Greening the Future", "Advances in Greener Energy Technologies", ISSN: 1865-3529 pp. 579 - 600, May 2020.
24. Pooja Krishan, **Sethukarasi T**, Suriya Praba T, "Identification and Classification of Indoor and Outdoor Environments: A review", "International Journal of Advanced Science and

	<p>Technology", ISSN: 2005-4238 Vol. 29, No. 6, pp. 4275 - 4284, May 2020.</p> <p>25. T. Suriya Praba, V. Meena, T. Sethukarasi, K. Prachetha, B. Aravind, K.C.S. Bharathkumar, "Energy measure cluster based concealed aggregation for confidentiality and integrity in WSN", "Journal of Intelligent & Fuzzy Systems", ISSN 1064-1246 Vol. 38, no. 5, pp. 6475-6482, May 2020.</p> <p>26. Suriya Praba T, Sethukarasi T, Venkatesh V, "Krill herd based TSP approach for mobile sink path optimization in large scale wireless sensor networks", "Journal of Intelligent & Fuzzy Systems", ISSN 1064-1246 Vol 38, No.5, pp. 6571-6581, Apr 2020.</p> <p>27. Dinesh Manikandan, Arjun Manoj SKL, T. Sethukarasi, "AGRO-GAIN - An absolute agriculture by sensing and data -driven through IOT Platform.", "Procedia Computer Science", ISSN: 1877-0509 pp. 534 - 539, Feb 2020.</p> <p>28. Visu P, Suriya Praba T, Sethukarasi. T, "Bio-inspired dual cluster heads optimized routing algorithm for wireless sensor networks", "Journal of Ambient Intelligence and Humanized Computing", ISSN: 1868-5137, Jan 2020.</p> <p>29. T. Suriya Praba, T. Sethukarasi, S. Saravanan, "Energy measure semigraph based connected domination routing algorithm in wireless sensor networks", "Mobile Information Systems", Volume 2019 Article ID 4761304, Nov 2019.</p> <p>30. R. Renuga Devi and Dr. T. Sethukarasi, "Energy Efficient Enhanced K-Means Cluster-based Routing Protocol for WSN", "International Research Journal of Engineering and Technology (IRJET)", ISSN 2278-3075 Vol 8, Issue 12, Nov 2019.</p> <p>31. Vaishnavi.S, Sethukarasi. R, "IoT Enabled Smart Heart Activity Monitoring Application", "International Journal of Innovative Technology and Exploring Engineering", ISSN 2278-3075 Vol 8, Issue 12, Oct 2019.</p> <p>32. T. Suriya Praba, Venkatesh Veeramuthu, R.D. Harshitha, T. Sethukarasi, "Improved Scheme For Cluster Based Fault Tolerant Data Aggregation In Wireless Sensor Networks", "ICTACT Journal On Communication Technology", ISSN: 2229-6948 Volume: 10, Issue: 02, Jun 2019.</p> <p>33. Prabakeran Saravanan, Sethukarasi T, "Optimal hop selection based novel trust based DDoS attack removal framework for reliable and secured transmission of data VANETs", "Wireless personal communication", ISSN 0929-6212, Volume: 113, pp</p>
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693 -709, Apr 2019.

34. Sunil Kumar, J. Sravan Kanth, G. Sai Abhinav Naidu, **T. Sethukarasi**, "IOT based cultivation using Aurdino", "International Research journal of Engineering and Technology", ISSN 2395-0072 Vol 6, Issue 3, Mar 2019.
35. Prithvi Venu, Niranjana Kumar B, Venkata Ramana G, **Dr Sethukarasi T**, "An android application for blood and organ donation management.", "International Research journal of Engineering and Technology", ISSN: 2395-0072 Volume: 06 Issue: 03, Mar 2019.
36. D. Shiny Irene, **T. Sethukarasi**, "Perlustration on existing techniques and applications in cloud computing for smart buildings using IoT", "International Journal of Advanced Intelligence Paradigms,", ISSN print 1755-0386 Vol. 12, Nos. 1/2, 147-163, Jan 2019.
37. Prabakeran Saravanan, **T. Sethukarasi**, V. Indumathi, "Two level trust propagation model with global weighted index for detecting and mitigating denial of service", "Taga Journal", ISSN: 1748-0345 Vol 14, No8 pp 2491-2504, Dec 2018.
38. Prabakeran Saravanan, **T. Sethukarasi**, V. Indumathi, "Authentic Novel Trust Propagation Model with Deceptive Recommendation Penalty Scheme for Distributed Denial of Service Attacks", "Journal of Computational and Theoretical Nano science", ISSN 1546-1955 Vol 15, No8 pp 1-7, Jun 2018.
39. Prabakeran Saravanan, **T. Sethukarasi**, V. Indumathi, "An Efficient Software Defined Network Based Cooperative Scheme for Mitigation of Distributed Denial of Service (DDoS) Attacks", "Journal of Computational and Theoretical Nano science", ISSN 1546-1955 Vol 15, No8 pp 2221-2226, Jun 2018.
40. T.Arvind, **Dr.T.Sethukarasi**, G.Gowtham, P.Ajith, "Social Network for Volunteering Activities", "International Journal of Engineering Science and Computing", Vol 8, Issue 4, ISSN:2321 3361, Apr 2018.
41. P. Shobha Rani, R. M. Suresh, **R. Sethukarasi**, "Multi-level semantic annotation and unified data integration using semantic web ontology in big data processing", "Cluster Computing - The Journal of Networks, Software Tools and Applications", Vol. 20 (2017) No.3, ISSN: 1386-7857, Aug 2017.
42. S.Srijayanthi, **R.Sethukarasi**, "A Comprehensive Survey on Privacy preserving Big Data Mining", "International journal of Computer Applications Technology and Research", ISSN 2317-

8656 Vol.6, issue 2, pp 79-86, Mar 2017.

43. R. Renuga Devi, **R. Sethukkarasi**, "Merits and Demerits of Various Routing Techniques in Wireless Sensor Networks", "Middle-East Journal of Scientific Research 25 (3): 555-561, 2017", ISSN 1990-9233 Vol 25 (3): 555-561,, Mar 2017.
44. Seetha R, Srijayanthi S, **Sethukarasi T**, "A Generic Proximity Privacy Preservation Technique for Data Anonymization in Cloud", "International Journal of Computer Science and Network", ISSN: 2277-5420 ,Vol 6, Issue 2,, Feb 2017.
45. Vasukidevi G, **Dr. R.Sethukarasi**, "A Survey on Security and Key Management in VANET", "International Journal for Innovative Research in Science & Technology", ISSN (online): 2349-6010 Volume 3 Issue 08 pp 107-111, Jan 2017.
46. R. Renuga Devi and **R. Sethukkarasi**, "Load Balancing over Geographic Adaptive Fidelity Routing Protocol for Wireless Sensor Networks", "Pak. J. Biotechnol.", Vol. 13 special issue II, Pp. 24 - 28, Dec 2016.
47. Suriya Praba T, **R. Sethukkarasi**, "Network structure based data aggregation techniques in wireless sensor networks: a survey", "Advances in Natural and Applied Sciences", vol. 10, no. 17, 2016,, Dec 2016.
48. Karthik Elangovan, **Dr.Sethukarasi. T**, "Knowledge enrichment of prediction using machine learning algorithms for data mining and big data: a survey", "Advances in Natural and Applie Sciences", ISSN: 1995-0772 10(15): pages 23-30, Oct 2016.
49. Chittibabu K, **Dr. Sethukarasi T**, "QBSCS: Query Based Source Code Summarization", "International Journal of Engineering Science and Computing", ISSN 2321 3361, Vol 6, Issue 4, Apr 2016.
50. Prabakeran Saravanan, **Dr T.Sethukkarasi**, "Network forensics: An analysis of techniques, tools and trends", "International journal of advanced research trends in engineering and technology", ISSN:2394-3777, Vol.3, Special Issue 19, Apr 2016.
51. Vaishnavi.S, **Dr.Sethukarasi.T**, "Bandwidth Demand Prediction in ATM Networks", "International Research Journal of engineering & Technology", ISSN:2395-0012,Vol 03 Issue 04, Apr 2016.
52. R. Renuga Devi, **R. Sethukkarasi**, "A Study on Classification of Energy Efficient Routing Protocols in Wireless Sensor Networks", "International Journal of Innovative Research and

	<p>Development", ISSN 2278 – 0211, Vol 5 Issue 4 pp:264-271, Mar 2016.</p> <p>53. R. Jasmine, T. Sethukarasi, "Implementation of blood vessels and optic discover in retinal images using segmentation approach", "International Journal of applied Engineering Research", Vol.10, No.20, ISSN:0973-4562, Jan 2015.</p> <p>54. R. Sethukkarasi, S. Ganapathy, P. Yogesh, A. Kannan, "An Inteligent neuro fuzzy temporal knowledge representation model for mining temporal patterns", "Journal of intelligent &fuzzy system", 1167-1178 Vol.26, Jun 2014.</p> <p>55. S Ganapathy, R Sethukkarasi, P Yogesh, P Vijayakumar, A Kannan, "An Intelligent temporal pattern classification system using fuzzy temporal rules and practicle swarn optimization", "Indian Academy of Sciences", Vol. 39, Part 2,pp. 283–302, Apr 2014.</p> <p>56. U. Keerthika, R. Sethukkarasi, A. Kannan, "A Novel Rule Based Classifier for Mining Temporal Medical Databases Using Fuzzy Rough Set Approach", "Advances in Computing and Information Technology", Vol 178, 85-95, Jan 2013.</p> <p>57. R. Sethukkarasi, A. Kannan, "A dynamic temporal neuro fuzzy inference system for mining medical databases", "Journal of Computer Science", ISSN 1549-36362012, 8 (11), 1924-1931, Nov 2012.</p> <p>58. U Keerthika, R Sethukkarasi, A Kannan, "A Rough Set Based Fuzzy Inference System For Mining Temporal Medical Databases", "International Journal on Soft Computing (IJSC)", ISSN 2229-6735 , Vol.3, No.3,, Aug 2012.</p> <p>59. R. Sethukkarasi, A. Kannan, "An intelligent system for mining temporal rules in clinical databases using fuzzy neural networks", "European Journal of Scientific Research", ISSN 1450202X, Vol 70, Issue 3, Pp 386-395, Feb 2012.</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 13	After Joining RMK : 13
Ph.Ds / Projects Guided	Ph.Ds Guided : 14	Student Projects Guided : 52
Books Published :	<p>Count : 03</p> <p>List :</p> <ol style="list-style-type: none"> 1. Dr. C. Geetha, Dr. Sandra Johnson, Dr. T. Sethukarasi, Ms. A. Jasmine Gilda, "Design and Analysis of Algorithms", Alpha International Publications, 2022. 2. T.Sethukarasi & A.Brunda, "Data Structures and Analysis of Algorithms", Anuradha Publications, 2003. 3. T.Sethukarasi & S.P.Latha, "Basics of High Speed Networks", 	

	Magnus Publications, 2009.	
Patents	Published Count : 11	Granted Count : -
	List : 1. Novel Method Of M-IoT Based Blood Glucose Sensing Non-Invasive Technique 2. Multiple sensor data fusion enabled AI based emotion identification system 3. Virtual Healthcare Assistance 4. ACCESSIBILITY CONTROL WITH GESTURE DETECTION 5. Fish Freshness Detector Using IoT 6. Universal IP adoptor 7. Brainy BIN 8. Unique Package Shipment 9. Smart Cane for Visually Impaired People 10. Neural Speech Through Brain Waves for Speech Impaired Persons 11. Smart Automatic Authorized Vehicle Parking System Using IOT Sensors and Machine Learning Algorithm Techniques	
Professional Memberships	Count : 05	
	List : IEEE, CSI, IEI, ISTE, IAENG	
Consultancy Projects Completed	Count : 05	
Awards Received	Count : 01	
	List : Best Faculty Advisor Award by IEI	
Research grants Received	04	
Orcid Link / ID	ID : 000-0001-5286-0342	
Google Scholar Link / ID	ID : YyOjdLwAAAAJ	
Vidwan Link / ID	ID : 305360	
Research Gate Link / ID	Link : T-Sethukarasi-2149890799	
Scopus Link / ID	ID : 56884807400	