


SRES', Sanjivani College of Engineering, Kopargaon
(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information			
Name of Teaching Staff: Dr. M. Rajesh			
Designation: Professor			
Department: Computer Engineering			
Date of joining: 14 - Aug - 2020			
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Contact No:		9788888588	
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	CSE First Class	Anna University	2006
PG	CSE First Class 6.75	Anna University	2012
Ph.D	CSE	St. Peter's University	2019
Total experience in years:			
Teaching:		14 years	
Industry:		-	
Research and Publications			
1. Sitharthan, R., M, Rajesh. Peer-to-peer energy trading using blockchain technology. Energy Reports (2022). https://doi.org/10.1016/j.egy.2022.01.145			
2. Sitharthan, R., M, R. E-waste management using game theory concept. Environ Sci Pollut Res (2022). https://doi.org/10.1007/s11356-021-17856-x			
3. B. Natarajan, M. S. Obaidat, B. Sadoun, M. Rajesh, S. Ramachandran and N. Velusamy, "New Clustering-Based Semantic Service Selection and User Preferential Model,"			

- in IEEE Systems Journal, vol. 15, no. 4, pp. 4980-4988, Dec. 2021, doi: 10.1109/JSYST.2020.3025407
4. S. K. Nataraj, F. Al-Turjman, A. H. Adom, R. Sitharthan, M. Rajesh and R. Kumar, "Intelligent Robotic Chair with Thought Control and Communication Aid Using Higher Order Spectra Band Features," in IEEE Sensors Journal, doi: 10.1109/JSEN.2020.3020971.
 5. M. Rajesh., et al., "An Efficient Lightweight Privacy Preserving Mechanism for Industry 4.0 Based on Elliptic Curve Cryptography," in IEEE Transactions on Industrial Informatics, doi: 10.1109/TII.2021.3139609.
 6. A. Moshika, M. Thirumaran, B. Natarajan, K. Andal, G. Sambasivam and R. Manoharan, "Vulnerability Assessment in Heterogeneous Web Environment Using Probabilistic Arithmetic Automata," in IEEE Access, vol. 9, pp. 74659-74673, 2021, doi: 10.1109/ACCESS.2021.3081567.
 7. V. S, R. Manoharn, S. Ramachandran and V. R. Rajasekar, "Blockchain Based Privacy Preserving Framework for Emerging 6G Wireless Communications," in IEEE Transactions on Industrial Informatics, doi: 10.1109/TII.2021.3107556.
 8. V. Gomathy, K. Janarthanan, Fadi Al-Turjman, R. Sitharthan, M. Rajesh, K. Vengatesan, and T. Priya Reshma. 2021. Investigating the Spread of Coronavirus Disease via Edge-AI and Air Pollution Correlation. ACM Trans. Internet Technol. 21, 4, Article 105 (November 2021), 10 pages. DOI:<https://doi.org/10.1145/3424222>
 9. Sudabattula, S. K., Suresh, V., Prabakaran, N., Sitharthan, R., & Rajesh, M. (2021). Optimal allocation of renewable distributed generators and shunt capacitors in distribution system using hybrid intelligent approach. International Journal of Ad Hoc and Ubiquitous Computing, 37(2), 98-112. 10.1504/IJAHUC.2021.115831
 10. Sitharthan, R., Rajesh, M. Application of machine learning (ML) and internet of things (IoT) in healthcare to predict and tackle pandemic situation. Distrib Parallel Databases (2021). <https://doi.org/10.1007/s10619-021-07358-7>

11. Rajesh M, Sitharthan R Image fusion and enhancement based on energy of the pixel using Deep Convolutional Neural Network. *Multimed Tools Appl* 81, 873–885 (2022). <https://doi.org/10.1007/s11042-021-11501-y>
12. Kumar, R., Al-Turjman, F., Anand, L. et al. Genomic sequence analysis of lung infections using artificial intelligence technique. *Interdiscip Sci Comput Life Sci* 13, 192–200 (2021). <https://doi.org/10.1007/s12539-020-00414-3>
13. Gopal, V. N., Al-Turjman, F., Kumar, R., Anand, L., & Rajesh, M. (2021). Feature selection and classification in breast cancer prediction using IoT and machine learning. *Measurement*, 178, 109442., <https://doi.org/10.1016/j.measurement.2021.109442>
14. Sitharthan, R., Rajesh, M., Madurakavi, K., Raglend, J., & Kumar, R. (2020). Assessing nitrogen dioxide (NO₂) impact on health pre-and post-COVID-19 pandemic using IoT in India. *International Journal of Pervasive Computing and Communications*, <https://doi.org/10.1108/IJPCC-08-2020-0115>
15. Rajalingam, B., Al-Turjman, F., Santhoshkumar, Rajesh M., Intelligent multimodal medical image fusion with deep guided filtering. *Multimedia Systems* (2020). <https://doi.org/10.1007/s00530-020-00706-0>
16. Sitharthan, R., Krishnamoorthy, S., Sanjeevikumar, P., Holm-Nielsen, J. B., Raja Singh, R., & Rajesh, M. (2021). Torque ripple minimization of PMSM using an adaptive Elman neural network-controlled feedback linearization-based direct torque control strategy. *International Transactions on Electrical Energy Systems*, 31(1), [e12685]. <https://doi.org/10.1002/2050-7038.12685>
17. Sitharthan, R., Krishnamoorthy, S., Sanjeevikumar, P., Holm-Nielsen, J. B., Raja Singh, R., & Rajesh, M. (2021). Torque ripple minimization of PMSM using an adaptive Elman neural network-controlled feedback linearization-based direct torque control strategy. *International Transactions on Electrical Energy Systems*, 31(1), [e12685]. <https://doi.org/10.1002/2050-7038.12685>
18. M. Rajesh., et al., Recent Trends in Intensive Computing., *Advances in Parallel Computing.*, 39., 2021., <https://ebooks.iospress.nl/ISBN/978-1-64368-216-7>

19. Singh, P. P., Pandey, P., Singh, D., Singh, S., Khan, M. S., & Semwal, M. (2020). 'Mentha Mitra'—An Android app based advisory digital tool for menthol mint farmers. *Industrial Crops and Products*, 144, 112047.
20. Rajesh, M., & Sreevidya, B. (2020). Vulnerability analysis of real-time operating systems for wireless sensor networks. In *Advanced Computing and Intelligent Engineering* (pp. 449-460). Springer, Singapore.
21. Ganesh Babu, R., Obaidat, M. S., Amudha, V., Manoharan, R., & Sitharthan, R. (2020). Comparative analysis of distributive linear and non-linear optimised spectrum sensing clustering techniques in cognitive radio network systems'. *IET Networks*.
22. Rajesh, M. (2020). Streamlining radio network organizing enlargement towards microcellular frameworks. *Wireless Personal Communications*, 113(4), 2463-2475.
23. Rajalingam, B., Al-Turjman, F., Santhoshkumar, R., & Rajesh, M. (2020). Intelligent multimodal medical image fusion with deep guided filtering. *Multimedia Systems*, 1-15.
24. Gayathri, R., Vincent, R., Rajesh, M., Sivaraman, A. K., & Muralidhar, A. (2020). Web-acl based dos mitigation solution for cloud. *Advances in Mathematics: Scientific Journal*, 9(7), 5105-5113.
25. Gayathri, R., Vincent, R., Rajesh, M., Sivaraman, A. K., & Muralidhar, A. (2020). Web-acl based dos mitigation solution for cloud. *Advances in Mathematics: Scientific Journal*, 9(7), 5105-5113.
26. Vincent, R., Wagadre, A., Sivaraman, A. K., Rajesh, M., & Rajesh, A. (2020). Human Activity Recognition Using LSTM/BiLSTM. *International Journal of Advanced Science and Technology*, 29(4), 7468-7474.
27. Vincent, R., Ranjan, A., Sivaraman, A. K., Rajesh, M., Gayathri, R., Jackson, J. C., & Rajesh, A. (2020). Handwriting Synthesis With Deep Learning. *Journal of Critical Reviews*, 7(19), 4257-4262.
28. Sitharthan, R., Rajesh, M., Madurakavi, K., Raglend, J., & Kumar, R. (2020). Assessing nitrogen dioxide (NO₂) impact on health pre-and post-COVID-19 pandemic using IoT in India. *International Journal of Pervasive Computing and Communications*.

29. Sasikala, T., Rajesh, M., & Sreevidya, B. (2020). Prediction of academic performance of alcoholic students using data mining techniques. In *Cognitive Informatics and Soft Computing* (pp. 141-148). Springer, Singapore.
30. Manoharan, R., Balaji, S., Suthir, S., Obaidat, M., & Suresh, K. C. (2020). Selection of intermediate routes for secure data communication systems using graph theory application and grey wolf optimization algorithm in MANETs. *IET Networks*, 1-9.
31. Rajesh, M., & Sreevidya, B. (2020). Vulnerability analysis of real-time operating systems for wireless sensor networks. In *Advanced Computing and Intelligent Engineering* (pp. 449-460). Springer, Singapore.
32. Rajesh, M., & Sreevidya, B. (2020). Vulnerability analysis of real-time operating systems for wireless sensor networks. In *Advanced Computing and Intelligent Engineering* (pp. 449-460). Springer, Singapore.
33. Kumar, A., Vengatesan, K., Vincent, R., Rajesh, M., & Singhal, A. (2019). A novel Arp approach for cloud resource management. *International Journal of Recent Technology and Engineering (IJRTE)*, 7(6).
34. Venkatesh, K., Ali, M. J. S., Nithiyandam, N., & Rajesh, M. (2019). Challenges and Research Disputes and Tools in Big Data Analytics. *International Journal of Engineering and Advanced Technology*, 6, 1949-1952.
35. Sumithra, M., Abraham, A., Rajesh, M., & Nithiyandam, N. (2019). Mining social media content to predict peer trust level in social networks. *International Journal of Engineering and Advanced Technology*, 6, 1959-1964.
36. Raja shree, S., Chilambu Chelvan, A., & Rajesh, M. (2019). An efficient RSA cryptosystem by applying cuckoo search optimization algorithm. *Concurrency and Computation: Practice and Experience*, 31(12), e4845.
37. Karakoti, A., Soundhar, A., Rajesh, M., Jayakrishna, K., & Hameed, M. T. (2019). Enhancement of mechanical properties of an epoxy composite reinforced with Hibiscus sabdariffa var. altissima fiber micro cellulose. *Inter Journal of Recent Technology and Engineering*, 8, 477-480.

38. Nithiyanandam, N., Venkatesh, K., & Rajesh, M. Transfer The Levels Of The Monitored Carbon, Nitrogen Gases From The Industries. International Journal of Recent Technology and Engineering, 7.

39. Nithiyanandam, N., Venkatesh, K., & Rajesh, M. Transfer The Levels Of The Monitored Carbon, Nitrogen Gases From The Industries. International Journal of Recent Technology and Engineering, 7.

Papers presented in conferences:

1. Shashank, A., Vincent, R., Sivaraman, A. K., Balasundaram, A., Rajesh, M., & Ashokkumar, S. (2021, July). Power Analysis of Household Appliances using IoT. In 2021 International Conference on System, Computation, Automation and Networking (ICSCAN) (pp. 1-5). IEEE.

2. Bhavana, T., Nithya, M., & Rajesh, M. (2017, August). Leader-follower co-ordination of multiple robots with obstacle avoidance. In 2017 International Conference On Smart Technologies For Smart Nation (SmartTechCon) (pp. 613-617). IEEE.

3. Ganga, M., Janakiraman, N., Sivaraman, A. K., Balasundaram, A., Vincent, R., & Rajesh, M. (2021, July). Survey of Texture Based Image Processing and Analysis with Differential Fractional Calculus Methods. In 2021 International Conference on System, Computation, Automation and Networking (ICSCAN) (pp. 1-6). IEEE.

4. Sharma, V. A., & Rajesh, M. (2018, September). Building a quadcopter: An approach for an Autonomous Quadcopter. In 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI) (pp. 1252-1258). IEEE.

5. Balasundaram, A., Kumar, N., Sivaraman, A. K., Vincent, R., & Rajesh, M. (2021, October). Mask Detection in Crowded Environment using Machine Learning. In 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC) (pp. 1202-1206). IEEE.

6. Sreevidya, B., & Rajesh, M. (2018, September). False data injection prevention in wireless sensor networks using node-level trust value computation. In 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI) (pp. 2107-2112). IEEE.

7. Sreevidya, B., Rajesh, M., & Sasikala, T. (2018, August). Performance analysis of various anonymization techniques for privacy preservation of sensitive data. In International Conference on Intelligent Data Communication Technologies and Internet of Things (pp. 687-693). Springer, Cham.
8. Nair, A., Sreedharan, R. P., & Rajesh, M. (2017, August). Intelligent motion control of bots using hill hold assistance mechanism. In 2017 International Conference On Smart Technologies For Smart Nation (SmartTechCon) (pp. 618-621). IEEE.
9. Shrivastava, A., & Rajesh, M. (2018, April). Automatic irrigation system with data log creation. In 2018 Second International Conference on Inventive Communication and Computational Technologies (ICICCT) (pp. 632-635). IEEE.
10. Pudugosula, H., & Rajesh, M. (2021). Design and Development of a Formation Control Scheme for Multi-robot Environment. In Proceedings of International Conference on Intelligent Computing, Information and Control Systems (pp. 825-833). Springer, Singapore.

Research Profile URL

Google Scholar	https://scholar.google.co.in/citations?user=URsPAh8AAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=55147430100
Orcid	https://orcid.org/0000-0003-0003-473X

Other Research Details

Ph D Guide ?Give field & University:	
Ph Ds/ Projects Guided:	<ol style="list-style-type: none"> 1. Wireless Sensor Networks 2. Block chain IoT 3. Power Grid 4. Cloud computing 5. Big Data 6. Datamining 7. Image Processing
Books Published	<ol style="list-style-type: none"> 1. M. Rajesh., et.al., Recent Trends in Intensive Computing., Advances in Parallel Computing., 39., 2021.,

	https://ebooks.iospress.nl/ISBN/978-1-64368-216-7			
IPRs/Patents				
Professional Memberships:	ACM, IEEE, IAENG			
Interaction with professional institutions				
Consultancy Activities				
Duration (From- To)	Title of Activity	Issued Organization	Amount	
Grants fetched				
Duration (From- To)	Title	Issued Organization	Amount	
Awards				
FACULTY DEVELOPMENT PROGRAMMES ATTENDED				
Name of the FDP / Workshop	Organization	Duration	Month- Year	
FACULTY DEVELOPMENT PROGRAMMES ORGANIZED				
Name of the FDP / Workshop	Organization	Duration	Month- Year	Capacity
INVITED LECTURES IN CONFERENCE/SEMINAR				
Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Organized By		

OTHER Professional URLs	
Personal Website	
Linked In Profile	https://www.linkedin.com/in/rajesh-m-5708ba24/?originalSubdomain=in
GitHub URL	
YouTube Channel	
Other	http://loop.frontiersin.org/people/470171/overview?referrer=orcid_profile https://www.researchgate.net/profile/Rajesh_Manoharan3 http://www.researcherid.com/rid/N-2253-2017 (Web of Science)

Any Other:

1. IET Nanobiotechnology,
2. D-Research (Springer)
3. GE: Energy Report (Elsevier)
4. LGE: Sustainable Energy Technologies and Assessments (Elsevier)
5. LGE: Pattern Recognition Letters (Elsevier)
6. LGE: IEEE Instrumentation & Measurement Magazine
7. LGE: Sustainable Computing: Informatics and Systems
8. LGE: IEEE Transactions on Industrial Informatics
9. LGE: Mathematical and Computational Forestry, and Natural-Resource Sciences (MCFNS),
10. LGE: International Journal of Environment and Sustainable Development (Inderscience)
11. LGE: International Journal of Innovation and Sustainable Development (Inderscience)
12. LGE: International Journal of Pure and Applied Mathematics
13. Special Issues: Environmental Science and Pollution Research, Springer, IF: 3.056
14. LGE-Special Issues: Measurement, Elsevier, IF: 3.364.