




SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of Computer Science and Engineering					
Name	Dr. R. RUBESH SELVAKUMAR				
Date of Birth	12.05.1972				
Unique ID	FD2056				
Educational Qualifications	M.E., PhD.,				
Designation	ASSOCIATE PROFESSOR				
Email ID	dr.rubesh1972@sethu.ac.in				
Alternate Email ID	dr.rubeshrubesh1972@gmail.com				
Experience	Industry	Teaching	Others	Total	
	-	20	-	20	
Date of Joining the Institution	07.03.2018				UPDATED PHOTO
Area of Specialization	IMAGE PROCESSING				
Courses taught	1. Big Data Analytics 2. Cloud Computing Technologies 3. Software Engineering 4. Agile Software Methodology 5. Data Science 6. MongoDB				
Research Focus	Medical Image Processing, Mobile Network				
Research guidance (Number of Scholars)	NIL				
Subject Competency	1. Big Data Analytics, 4 2. Cloud Computing Technologies,5 3. Software Engineering,4 4. Agile Software Methodology,3 5. Data Science,2 6. MongoDB,2				
No. of papers published	National Journals		International Journals	Conferences	
	3		5	15	
PG Specialization	COMPUTER SCIENCE ENGINEERING				
Ph.D. Specialization	IMAGE PROCESSING				
Projects Carried out	25				
Patents (Filed & Granted)	<ul style="list-style-type: none">Dr. R. Rubesh Selvakumar, Patents filed, Titled on “New Method for User Authentication Using Machine Learning Approach” (Filed on 6th Dec’2020) App.No. TEMP/E-				



UPDATED PHOTO

	<p>1/58969/2020-CHE.</p> <ul style="list-style-type: none"> Dr. R. Rubesh Selvakumar, The Design Patents Filed and Granted Titled on “PORTABLE HEALTHCARE COMMUNICATION HUB FOR REMOTE PATIENT MONITORING” Design No. 434900-001, Dated : 19/10/2024.
<i>Technology Transfer</i>	
<i>No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)</i>	<p>Two Books:</p> <ol style="list-style-type: none"> Name: BIG DATA AND CLOUD COMPUTING Pbulisher: RCHUB Publishers Year of Publication: Dec. 2024 ISBN: 978-81-982965-6-6 Name: MACHINE LEARNING Pbulisher: GCS Publishers Year of Publication: Jan. 2024 ISBN: 978-81-967671-5-0

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Academic Credentials

Level	Degree	Specialization	University	Year of Completion
PG	MCA	Computer Applications	Madurai Kamarajar University	2002
PG	M.E.,	Computer Science and Engineering	Anna University	2005
Ph.D.	PhD.	Information Communication Engineering	Anna University	2016

Details of Journal Publication:

1. R. Rubesh Selvakumar, P. Senthil Pandian, R. Muneeshwaran, “ Identification of Heart Disease in Beginning Stage using Gradient Boosting Classification”, *International Journal of Applied Engineering Research* , Vol.18, no. 2, pp. 136-139, 2023.
2. R .RubeshSelvakumar, R.Umesh, G.KarpagaKanna,“Medical Image De-noising using a modified LOT with Enhanced ATF”, *Solid State Technology*, vol.63, Issue no.6,Jan, 2020
3. R. Rubesh selvakumar, V. Vivek, and P. Senthil pandian, “ Detection on Credit Card Scam Using Self Organization Approach with of Support Virtual Machine Model”, *International Journal of Innovative Technology and Exploring Engineering*, vol.8, Issue. No.8, pp.622-630, June 2019
4. Ravichandran, C G., and Rubesh Selvakumar, R. (2016). “Multimodal Medical Image Fusion Using Dual-Tree Complex Wavelet Transform (DTCWT) with Modified Lion Optimization Technique (mLOT) and Intensity Co-Variance Verification (ICV).” *American Computational Electro-magnetic Society (ACES)*, Vol. 31, No. 6, pp.717-
5. Ravichandran, C G., and Rubesh Selvakumar, R. (2016). “Design and Implementation of Medical Image Fusion of Computer Tomography and Magnetic Resonance Imaging Using the Integrated Technique.” *American Journal of Computational and theoretical Nanoscience (JCTN)*, Vol.13, No. 5, pp.2017-2024.
6. Ravichandran, C G., and Rubesh Selvakumar, R. (2015). “Dual-Tree Complex Wavelet Transform Based Medical Image Fusion Using Novel Image Fusion Rule Verification.” *Journal of Applied Sciences*, Vol. 11, No.22, pp. 66-72.
7. Ravichandran, C G., and Rubesh Selvakumar, R. (2015). “Correction of Intensity In-Homogeneity of MR Image Based on Average Median Intensity Value Method.” *International Journal of Computer Trends and Technology (IJCTT)*, Vol. 28, No. 2, pp.107-110.
8. Ravichandran, C G., and Rubesh Selvakumar, R. (2015). “Analysis and Comparison of Medical Image Fusion Techniques: Wavelet based Transform and Contourlet based Transform.” *International Journal of Computer Science and Information Security(IJCSIS)*, Vol. 9, No. 3, pp.70-75.

Details of Conference attended:

1. R. RubeshSelvakumar “A Multimodal Medical Image Noise Removal Techniques with Gussian Noise: Analysis and Comparison “, 8th National Conference on Hi-Tech Trends in Emerging Computational Technologies at Sethu Institute of Technolgy, Pulloor, 4th Sep’20.
2. R. Rubesh Selvakumar, “Multimodal Medical Image Enhancement using A Modified Optimization Technique with Adaptive Thresholding Function”, International Conference on Recent Trends and Technologies in Soft Computing (ICRTTSC’20) at ST. Peter’s Institute of Higher Education & Research, Avadi, Chennai, 28th Sep’20.
3. Dr. R. RubeshSelvakumar, “CT and MRI Image Fusion Using DT_CWT with Modified Weighted Fusion Rule and the Optimized Technique”, National Level Conference on Emerging Trendz in Engineering and Technolgy (ETET’18), at Gnanamani College of Technology, Namakkal, 24th Mar’2018
4. Dr. R. Rubesh Selvakumar, “Identification of Effective method for Medical Image Fusion by Comparative Study of Curvlet Transform Vs Countourlet Transform”, International Conference on Computer, Communication and Signal Processing at SSM College of Engineering, Kumarapalayam, Namakkal, 21-23 Sep’2011
5. Dr. R. Rubesh Selvakumar, “Analysis and Comparison of Different Wavelet Transform Method Using Benchmarks for image fusion”, International Conference on Computer, Communication and Signal Processing at SSM College of Engineering, Kumarapalayam, Namakkal, 21-23 Sep’2011
6. Dr. R. Rubesh Selvakumar, “Video Based Query Processing in a Stream of Video Queries”, National Conference on Recent Trends in Information Technology and Communication (NCRTIC’11) at Velammal Engineering College, Chennai, 11th Mar’11.
7. Dr. R. Rubesh Selvakumar, “A Proportional Study of Medical Image Fusion Techniques”, National Conference on Recent Trends in Instrumentation, at RVS College of Engineering and Technology, Dindigul, 04th Dec’2009.
8. Dr. R. Rubesh Selvakumar, “Increased TCP Performance Using Few and Robust in Multi-hop Ad-hoc Networks”, National Conference on Emerging Trends in Computing and Network Technologies (ECNT’09) at KLN College of Information and Technology, Pottalpalayam, Sivagangai, 19-20th Mar’2009.
9. Dr. R. Rubesh Selvakumar, “Reliable and Efficient Reporting in Wireless Sensor Networks”, National Conference on Recent Trends in Innovative Technologies (NCRTIT’09) at Velalar College of Engineering and Technology, Erode, 9th April’2009.
10. Dr. R. Rubesh Selvakumar, “Insecurity of WLAN in Machine Learning”, National Conference on Networking and Information Computing (NCNIC’09) at PSNA College of Engineering and Technology, Dindigul, 4th April’2009
11. Dr. R. Rubesh Selvakumar, “Position Based Routing Protocols for Reducing the Number of Exchanged Route Request Message in Mobile Ad-Hoc Networks”, National Conference on Emerging Trends in Advanced Computing at SASURIE College of Engineering, Erode, 21st Feb’2008.
12. Dr. R. Rubesh Selvakumar, “Identity Based Key Infrastructure for Grid”, National Conference on Innovation in Computing Techniques at Mahendra Engineering College, Namakkal, 16th Mar’2007.
13. Dr. R. Rubesh Selvakumar, “Secure Group Key Management Using Key Graphs”, National Coference’05 at KSR CET, Tiruchenkode, 6th Mar’2005.

Details of Book Chapter and Books Published:

1. Name: BIG DATA AND CLOUD COMPUTING
Publisher: RCHUB Publishers
Year of Publication: Dec. 2024
ISBN: 978-81-982965-6-6
2. Name: MACHINE LEARNING
Publisher: GCS Publishers
Year of Publication: Jan. 2024
ISBN: 978-81-967671-5-0

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- Dr. R. Rubesh Selvakumar, Patents filed, Titled on “New Method for User Authentication Using Machine Learning Approach” (Filed on 6th Dec’2020) App.No. TEMP/E-1/58969/2020-CHE.
- Dr. R. Rubesh Selvakumar, The Design Patents Filed and Granted Titled on “PORTABLE HEALTHCARE COMMUNICATION HUB FOR REMOTE PATIENT MONITORING” Design No. 434900-001, Dated : 19/10/2024.