

## Curriculum Vitae

# DR. S. SURESH KUMAR



### Personal data

Date of Birth : April 12, 1966 Age : 55

Native : Nagercoil, Tamilnadu

Nationality : Indian Religion : Hindu

Language Known : Tamil , English, Malayalam, Telugu

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Vadasery, Nagercoil, Tamil nadu, India.  
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Jakkamvari Street,  
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### Education

**Ph.D** (Information and Communication Engineering),  
Anna University Chennai 2009

**M.Tech** (Computer Engineering), First Class  
Indian Institute of Technology, Kharagpur, West Bengal 1999

**M.S** (Software Systems), First Class  
Birla Institute of Technology and Science, Pilani, 1993

**B.E** (Computer Engineering), First Class  
National Engineering College, Madurai Kamaraj University, 1988

## Research Guidance

### Ph. D Supervisor ship

	University	Registered	Completed	Progress
1	Anna University, Chennai	15	13	2
2	Mononmaniam Sundaranar University, Tirunelveli	2	2	-
3	Sathyabama University Chennai	1	-	1

Till date No of Ph. D Degree Awarded : **15** Undergone : **3**

**Area of Interest** : Image processing, Computer Networks & Security, Smart Systems, Software Engineering, Big-data Analytics

## Experience

**32 Years**

- **Principal & Professor CSE**, Swarnandhra College of Engineering and Technology Narasapur, Andhra Pradesh, India Since 12 September 2018.
- **Principal & Professor CSE**, Vivekanandha College of Technology for Women(VCTW), Tiruchengode, Tamilnadu, India 2018 March - September.
- **Principal & Professor CSE**, Vivekanandha College of Engineering for Women(Autonomous)(VCEW), Tiruchengode, Tamilnadu, India 2015-2018.
- **Founder Principal & Professor CSE**, VCTW, Tiruchengode, Tamilnadu, India 2009-2015.
- **Vice Principal & Professor CSE**, VCEW, Tiruchengode, Tamilnadu, India, 2008-2009.
- **Head of the Department**, Dept. of Information Technology, Noorul Islam College of Engineering, Thukalay, Tamilnadu, India (NICE), 2000-2008.
- **Assistant Professor and Head**, Dept. of Computer Science and Engineering(CSE), NICE, 1998-2000.
- **Senior Lecturer and Head**, Dept. of CSE and Dept. of Computer Applications, NICE, 1994 -1998.
- **Lecturer and Head**, Dept. of CSE, NICE, 1990-1994.
- **Lecturer**, Dept. of CSE, National Engineering College, Kovilpatti, Tamilnadu, India, 1989-1990.
- **Lecturer**, Dept. of CSE, Thaimoogambihai Polytechnic College, Chennai, Tamilnadu, India, 1988-1989.

## **Patent Published**

**4 Nos**

- “System and method of rationalize user predilection from an internet based social interactive contrive”, Patent no. 201941036819, Published dated : 20.09.2019
- “IOT-CC-Drainage: in IOT Technology to control clogging drainage”, Patent no. 201921009941 A, Published dated : 14.03.2019.
- “A Smart Iris Based Document Monitoring System For Secured File Communication”, Patent no. 202041025417 A, Published dated : 03.07.2020
- “Artificial Intelligence Approach To Health Care Monitoring System Using Internet Of Things”, Patent no. 202141006202 A, Published dated : 26.02.2021

## **Membership in Professional Societies**

- Fellow Member - **IE(I)** Institution of Engineer (India)
  - **IETE** The Institution of Electronics and Telecommunication Engineers
- Life Member - **ISTE** Indian Society for Technical Education
  - **CSI** Computer Society of India
  - **ISSE** Indian Society of Systems for Science & Engineering
- Member - **IET(UK)** Institution of Engineering Technology
  - **IAENG** International Association of Engineers, Hong Kong
  - **ICSSES** International Computer Science and Engineering Society
  - **ACEEE** The Association of Computer Electronics and Electrical Engineers
- Senior Member - **IACSIT** International Association of Computer Science and Information Technology, Singapore
- Former **Council Member** - **IET(UK)** 2013-2016
- Former Chairman, **IET(UK)** - Chennai Local Networks, India 2014 – 2016
- Former Joint Secretary, **IET-YMS** Young Member Section of Chennai Networks.

## Awards

- IET-Achievement Award-2008 from The Institution of Engineering and Technology -UK
- **Young Men Engineer Award-2009 from The Institution of Engineering and Technology -UK**
- A.V.M.V.Krishnaswamy Award-2010 from The Institution of Engineering and Technology -UK
- IET(YP) CLN Diamond Salute Award-2013 from The Institution of Engineering and Technology -UK
- Outstanding Principal (HEI Awards) from AUROPATH GLOBAL AWARDS 2019 by AUROPATH, Puthuchery , India
- Life-Time Achievement Award from IJIEMR-ELSEVIER SSRN Research Awards Social Science Research Network March, 2020

## Achievements

- Established Department of CSE at Noorul Islam College of Engineering (NICE) , Thukalay, Tamilnadu,India 1990-1994.
- Produced Gold Medals from Manonmaniam Sundaranar (MS) University Tirunelveli for B.E CSE of NICE in 1994,1995 & 1996
- Produced more no of Ranks from MS University Tirunelveli for B.E CSE of NICE : 1994-1999
- Established Department of MCA, NICE: 1994-1997.
- Established Department of Information Technology ,NICE : 1998-2008
- Produced Gold Medals and Ranks from MS University Tirunelveli for IT of NICE in 2002,2003,2004
- Produced more no of Ranks from MS University Tirunelveli for IT of NICE in 2002-2004
- Produced good no of Ranks from Anna University, Chennai for IT of NICE in 2005-2009
- Obtained NBA accreditation, Department of IT of NICE, 2006

- Established Vivekanandha College of Technology for Women(VCTW) with 5 UG, and one PG 2009-2015
- Produced Ranks from Anna University, Chennai for VCTW 2013,2014
- Associated with Autonomous System with Anna University in 2015
- VCEW Ranked at 2<sup>nd</sup> position in Anna University November 2015 Examinations Result.
- Introduced CBCS in Autonomous Systems with Anna University in 2016.
- Obtained NAAC accreditation for Vivekanandha College of Engineering for Women(VCEW) in 2017.
- Fetched 4<sup>th</sup> position in national wise from Swachta 2017 Ranking of Higher Educational Institutions by HRD, Govt. of India for Vivekanandha College of Engineering for Women for Clean Campus.
- VCEW Ranked at 1<sup>th</sup> position in Anna University April 2016 Examinations Result.
- Achieved 100 % Placement for job seekers in VCEW in 2016-2017.
- Fetched Best Women Engineering College in India Award for 2017 from ISTE (Indian Society for Technical Education) for VCEW.
- Fetched Best Practice Award for the Institution for 2017-2018 from ICT Academy, Chennai, March 2018 for VCEW .
- Received Rs. 80,00,000 Funded projects/program with my guidance from various organization during 2015-2018 ( Applied worth of 4 Crore).
- Fetched incubation Center from MSME of DST in 2018
- Established PMKVY for 5 Programme in VCEW.
- Established Department of Robotics, AI & ML ,SCET : 1920-2021

# Publications

## Books

1. "INFORMATION CODING TECHNIQUES" co-authored with Ganesan L and R.Mathusoothana S Kumar published by Anuradha Agencies, 2003.
2. "PROBLEM SOLVING AND PYTHON PROGRAMMING" co- authored with Saravanabhavan C and Sugitha G published by JBR Tri Sea Publishers Pvt, 2018, ISBN : 978-81-932242-0-5.
3. "PROBLEM SOLVING AND PYTHON PROGRAMMING" co-authored with Punithavathi R, Dhanalakshmi N and Prakash P published by Charulatha Publications, ISBN-978-93-88335-00-3, 2018.
4. "FUNDAMENTALS OF COMPUTING PROGRAMMING" co-authored with R.P. Anto Kumar , G. Sugitha published by Tri Sea Publishers, nagercoil, ISBN-978-81909278-3-3,2012
5. "COMPUTER PRACTICE LABORATORY" co-authored with R.P. Anto Kumar , G. Sugitha published by Tri Sea Publishers, Nagercoil, ISBN-978-81-909278-4-0, 2013
6. "COMPUTER PROGRAMMING" co-authored with C. Saravanabhavan, G. Sugitha, JBR, published by Tri Sea Publishers, Nagercoil, ISBN-978-81-909278-7-1,2014.
7. "PROGRAMMING in C" co-authored with C. Saravanabhavan, G. Sugitha, JBR, published by Tri Sea Publishers, Nagercoil, ISBN-978-81-932242-2-9,2018
8. "PROBLEM SOLVING AND PYTHON PROGRAMMING" co-authored with C. Saravanabhavan, G. Sugitha, JBR, published by Tri Sea Publishers, Nagercoil ,ISBN-978-81-932242-0-5, 2018

## Journal Papers

1. S Suresh Kumar, L Ganesan, Karthikeyan B ,*'Unsupervised K-Mean Classification of Texture Images Using Improved Texture Energy Measure'*, International Journal of Advanced Computations, 1(2), pp. 86-91, 2007.
2. S Suresh Kumar, L Ganesan, Raja Pandi P, *'Performance Analysis of Texture Classification using Wavelet Based Laws'*, International Journal of Communication Techniques, 2(3), pp.176-181, 2008.
3. S Suresh Kumar, L Ganesan, Sudhan T. ,*'A Novel Approach for Texture Segmentation using Haar Wavelet Transform'*, International Journal of

Information Systems, 2(3), pp. 141-147, 2008.

4. S Suresh Kumar, L Ganesan, '*Texture Classification Using Wavelet Based Laws Energy Measure*', International Journal of Soft Computing, ISSN: 1816-9503, 2(3), pp. 293-296, 2008.
5. S Suresh Kumar , L Ganesan , '*Texture Analysis Using Haar Wavelet based Laws method*', International Journal of Computer Sciences and Engineering Systems, 3(3), pp. 173-178, 2009.
6. S Suresh Kumar, L Ganesan, '*Texture Analysis of Wood images using Wavelet based Laws method*', Journal of Emerging Technology, 3(1), pp. 34-40, 2009.
7. S Suresh Kumar , L Ganesan, '*Texture Classification of Fabric images using Wavelet based Laws Approach*', Journal of Computer Science, 3(6), pp. 1235-1239, 2009.
8. S Suresh Kumar, L Ganesan, '*A Novel Approach for Texture Classification using Wavelet Transform*', International Journal on Image Processing and Network Techniques, 3(1), pp. 62-67, 2010.
9. E Menaka, S Suresh Kumar , '*Forest Fire Detection Using Texture Analysis*', International Journal of Recent Trends in Engineering and Technology [IJRTET], ISSN: 2158-5555, pp. 6(1),pp. 40-43, 2011.
10. E Menaka, S Suresh Kumar, '*Forest Fire Detection Using Texture Analysis*' International Journal of Computer Applications in Engineering Sciences [IJCAES] ISSN: 2231-4946, 1(1), pp. 64-68, 2011.
11. M Uma Selvi, S Suresh Kumar, '*Sea Object Detection Using Shape and Hybrid Color Texture Classification*', CCIS 204, © Springer-Verlag Berlin Heidelberg, ISBN:978-3-642-24043-0, pp. 19-31, 2011.
12. M Uma Selvi, S Suresh Kumar, '*A Novel Approach for Ship Recognition using Shape and Texture*', International Journal of Advanced Information Technology (IJAIT), ISSN:2231-1920, 1(5), pp. 23- 29, 2011.
13. S Suresh Kumar, M Uma Selvi, '*Sea Object Detection using Color and Texture Classification*', International Journal of Computer Applications in Engineering Sciences, 1(1), ISSN: 2231-4946, pp. 59 - 63, 2011.
14. S Nithyakalyani, S Suresh Kumar, '*Clustering Algorithms for Wireless Sensor Network: A Survey*', International Journal of Advanced Research in Computer Science (IJARCS) ISSN: 0976-5697, 2(1), pp. 146-152, Jan-Feb 2011. ( Impact Factor ICV - 5.47, Indexed - EBSCO)

15. A Mummoorthy, S Suresh Kumar, '*A Detailed study on the evolution of recent jammers in wireless sensor networks* ', International Journal of Engineering Research and Development ISSN:2278-800x., 4(6),pp. 12-15, 2012.
16. B Gopinath, S Suresh Kumar, '*Damping of power system oscillations using unified power flow controller*', IEEE-Advances in Engineering, Science and Management (ICAESM), International Conference, vol. 1, pp. 528-533,2012.
17. B Gopinath, J Michael, S Suresh Kumar, '*Modeling Of Unified Power Flow Controller Using Advanced Control Techniques*', International Journal of Engineering Research & Technology, ISSN: 2278-0181, 1(10), pp. 1-5, 2012.
18. E Menaka, S Suresh Kumar, M Bharathi '*Evaluation of Deforestation using Watershed Algorithm*' International Journal IRACST - Engineering Science and Technology (ESTIJ), ISSN: 2250-3498, 2(2), pp. 336-339, 2012.
19. E Menaka, S Suresh Kumar, P Paramameshwari, '*Segmentation of Dry Forest Region Using Watershed Algorithm*', International Journal of Computer Science and Information Technology & Security (IJCSITS), ISSN: 2249-9555, 2(3), pp. 588-592, 2012.
20. K Soundararajan, S Suresh Kumar, '*Classification of Uncertain Data Using Selection Algorithm*' ,International Journal of Modern Engineering Research, ISSN: 2249-6645, 2(3),pp. 1066-1072, 2012.
21. K Soundararajan, S Suresh Kumar, '*Diagnostics Decision Support System for Tuberculosis using Fuzzy Logic*', International Journal of Computer Science, Information Technology and Security, ISSN: 2250-1355, 2(3), pp. 684-689, 2012.
22. MP George, M Kalyanasundaram, S Suresh Kumar '*Optimal Utilization Of Custom Power Devices For The Mitigation Of Power System Problems And Load Reactive Power Compensation* ', International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, 1(10), pp. 1-6, 2012.
23. M Iyapparaja, S Suresh Kumar, '*Extreme Confidential Component Mining Based on Coupling and Cohesion Strategy in Cloud Computing*', International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), 12(2), pp. 315-320, Impact Factor 2.080. ISSN: 2277 128X, 2012.
24. M Iyapparaja, S Suresh kumar, '*Test the Excellence of Module set Interactions in Object oriented Software System*', International Journal of Advanced



Research in Technology, ISSN: 2347-7490, 2(3), pp. 52-58, 2012.

25. S Nithyakalyani , S Suresh Kumar '*Optimal Clustering Algorithm for Energy Efficient Data Aggregation in WSN*' European Journal of Scientific Research ISSN 1450-202X, 78(1) , pp. 146-155,2012. (A-II, Impact Factor - 0.736, Indexed - ProQuest ABI/INFORM Genamics, Elsevier Bibliographic Databases)
26. S Nithyakalyani, S Suresh Kumar ,'*Data Relay Clustering Algorithm for Wireless Sensor Networks: A Data Mining Approach*' Journal of Computer Science, 8(8), ISSN: 1549-3636, pp. 1281-1284,2012, DOI: [10.3844/jcssp.2012.1281.1284](https://doi.org/10.3844/jcssp.2012.1281.1284) (A-II, Impact Factor -0.5,Indexed - EBSCO)
27. S Nithyakalyani, S Suresh Kumar, '*Energy Efficient Data Aggregation using Voronoi based Genetic Clustering Algorithm in WSN*', International Journal of Computer Applications (0975 - 8887), 54(4), pp. 37-41, 2012. ( Impact Factor - 0.821,Indexed - EBSCO)
28. B Gopinath , S Suresh Kumar & Juvan Michael, '*Unified Power Flow Controller (UPFC) for Dynamic Stability in Power System using Modern Control Techniques*', International Journal of Engineering and Advanced Technology, 2(4), pp. 17-19,2013.
29. B Gopinath, S Suresh Kumar, S Mohanapriya, '*An Intelligent Technique For Unified Power Flow Controller with Matrix Converter*', International Journal of Scientific and Research Publication, ISSN: 2250-3153, 3(4), pp. 1-6, 2013.
30. B Gopinath, S Suresh Kumar, M Juvan, '*Stability Improvement in Power Systems Using Unified Power Flow Controller (UPFC)*', Advanced Materials Research ISSN: 1662-8985, 2(1), pp. 392-397,2013.
31. C Berin Jones , S Suresh Kumar , and S Purushothaman , '*Identification of Diabetic Retinopathy using Fuzzy Logic and Back Propagation Neural Network*' ,International Journal of Computer Science and Information Security ISSN:1947-5500, 11(11), pp. 88-95,2013.
32. E Menaka, S Suresh Kumar, M Bharathi, '*Accuracy Assessment of Cloud Reconstruction Approaches using Segmentation*' International Journal of Innovation and Applied Studies, ISSN 2028-9324,3(1), pp. 112-115 , 2013.
33. K Soundararajan and S Suresh Kumar '*Approaches for Handling Uncertainty in Decision Making*', IJCA Proceedings on Emerging Technology Trends on Advanced Engineering Research - 2012 ICETT, vol. 1,pp. 40-43, 2013. Published by Foundation of Computer Science, New York, USA, ISBN: 973-93-80872-00-6.

34. M Kalyanasundaram, MP George, S Suresh Kumar '*Unified Power Quality Conditioner (UPQC) for the Mitigations of Power Quality Problems in Distribution System*' International Journal of Engineering and Advanced Technology (IJEAT) ,ISSN: 2249 – 8958, 2(4), pp. 569-573, 2013.
35. S Suresh Kumar, M Kalyanasundaram '*Intelligent Technique For Facts Devices To Enhance The Power System Stability In Large Bus System*' Transactions on Engineering and Sciences, ISSN: 2347-1875 ,1(4), pp. 72-77, 2013.
36. S Suresh Kumar, M Kalyanasundram, Ammu Wilson, '*Enhancement for Power Quality in Distribution Side Using Custom Power Devices*', IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) , ISSN: 2320-3331, 5(6), pp. 81-87, 2013.
37. M Akila, S Suresh Kumar, '*Performance of classification using a hybrid distance measure with artificial bee colony algorithm for feature selection in keystroke dynamics*', International Journal of Computational Intelligence studies, ISSN : 1755-4977,2(2),pp. 187-197,2013.
38. M Akila, S Suresh Kumar, N Anusheela, K Sugumar, '*A Novel Feature Subset Selection Algorithm Using Artificial Bee Colony in Keystroke Dynamics*', Advances in Intelligent and Soft Computing, (Springer), ISSN:1867-5662 ,131,pp. 813-820,2012.
39. M Iyapparaja, S Suresh Kumar, '*A concise survey of risk management in software reusable components*', International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), ISSN: 2320-9798, 1(9), pp. 2151-2155, 2013.
40. M Uma Selvi, S Suresh Kumar, '*Color and Wavelet Based Identification of Urban and Agricultural Area Using Texture Features in Satellite Images*', published in IEEE Xplore Digital Library, Digital Object Identifier: 10.1109/ICGHPC.2013.6533914, ISSN:978-1-4673-2592-9, 2013.
41. N Kopperundevi, S Suresh Kumar, '*Effective Method for De-Noising of water submerged Images*', International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, 2(10), pp. 4085-4087, 2013.
42. S Nithyakalyani, S Suresh Kumar, '*An approach to data aggregation in wireless sensor network using voronoi fuzzy clustering algorithm*', Journal of Scientific and Industrial Research, ISSN: 0022-4456, Vol. 72, pp. 287-293, 2013. (A-I, Impact Factor -0.505 , Indexed –NISCAIR (CSIR))

43. S Nithyakalyani, S Suresh Kumar, '*Voronoi BFO algorithm for Data aggregation in WSN*', International Journal of application of fuzzy sets and Artificial Intelligence, ISSN: 2241-2240, vol. 3, pp. 71-89, 2013.
44. SR Thilaga, S Suresh Kumar , '*Simulation and Analysis of Seven Switch Nine-Level Hybrid Cascaded Inverter for Fuel Cell Applications*' , International Journal of Applied Mechanics and Materials, ISSN:1660-9336, vol. 367, pp. 199-203, August 2013.
45. B Gopinath, S Suresh Kumar, '*Control Strategy and Dynamic Characteristics of Unified Power Flow Controller (UPFC)*', International Journal of Computer & Organization Trends, ISSN: 2349-574X, 5(2), pp. 67-71, 2014.
46. B Gopinath, S Suresh Kumar,'*Damping Power System Oscillations Using Unified Power Flow Controller*', Transactions on Engineering and Sciences, , ISSN: 2347-1964, 2(2), pp. 6-9, 2014.
47. B Gopinath, S Suresh Kumar '*Modeling of UPFC Using Model Predictive Control and Bacterial Foraging Algorithm*', International Journal of Innovative Research in Computer and Communication Engineering , ISSN: 2320-9798, 2(1), pp. 2724-2731, 2014.
48. B Gopinath, S Suresh Kumar, '*A Comparative Study of Optimization Technique for Various Algorithms in Facts Controllers*', International Journal of Engineering Innovations and Research, ISSN: 2277 - 5668, 3(2), pp. 146-150, 2014.
49. B Gopinath,S Suresh Kumar '*Analysis of Damping Performance using Validated Small -Signal Models of IPFC and UPFC*', International Journal of Advanced Computer Technology, ISSN:2319-7900, 2(5), pp. 4-8, 2014.
50. C Berin Jones, S Suresh Kumar, S Purushothaman ,'*performance comparisons of fuzzy logic ,back propagation neural network and gray level co occurrence matrix texture properties in identification of exudates in diabetic retinopathy images*',CiiT International Journal of Artificial Intelligent Systems and Machine Learning , ISSN: 0974-9667, 6(6),pp. 217-223, 2014.
51. S Suresh Kumar, C Sivapragash, '*Trace Based Real Time Service Selection and Composition for Secure Cloud Computing in Smart Grids*' International Journal of Applied Engineering Research, ISSN: 0973-4562, 9(22), pp. 16305-16316, 2014.
52. E Menaka, S Suresh Kumar, '*Analysis of Deforestation using Threshold Based Clustering Algorithm*', International Journal of Applied Engineering

Research, ISSN: 0973-4562, 9(23), pp. 21031-21054, 2014.

53. E Menaka, S Suresh Kumar, V Hemapriya , *'Improving segmentation accuracy for detecting tree crown using marker controlled watershed with sobel edge detection from LiDAR imagery'*, International Journal of Applied Environmental Sciences, ISSN: 0973-6077, 9(6), pp. 2879-2889 ,2014.
54. M Kalyanasundaram, S Suresh Kumar , *'Enhancement in Working Performance of Custom Power Device using Different Controlling Methods'* Journal of Theoretical and Applied Information Technology, ISSN:1992-8645, 63 (2), pp. 468-476, 2014.
55. S Sureshkumar, N Kamalamoorthy, *'Simulation and Optimization of P&O MPPT Algorithm for Grid Applications'*, International Journal of Applied Engineering Research, ISSN :0973-4562 , 9(23), pp. 20161-20171,2014.
56. S Nithyakalyani, S Suresh Kumar , *'Voronoi Fuzzy Clustering Approach for Data Processing in WSN'*, International Journal of Computational Intelligence Systems, ISSN :1875-6883, 7(1), pp. 105-113, 2014. (A-II, Impact Factor -1.47, Indexed - Taylor & Franci)
57. S Sasikanth, S Suresh kumar , *'User interactive multi-variant feature graph based energy estimation technique for image segmentation'*, Journal of Theoretical & Applied Information Technology, ISSN: 1992-8645, 69 (3), pp. 468-473,2014.
58. V Chandrasekar, S Suresh Kumar, *'Multi Variant Features Based Identity Management Using Keystroke Dynamics for Improved Authentication'* International Journal of Applied Engineering Research, ISSN: 0973-4562, 9(22), pp. 17469-17475, 2014.
59. J Gladson Maria Britto , S Suresh Kumar, *'Speaker Change Detection- An Enhanced Comparative Study Using Support Vector Machines'* ,International Journal of Applied Engineering Research, ISSN: 0973-4562, 9(2), pp. 4438-4442 ,2014.
60. A Mummoorthy, S Suresh Kumar, *'Data Transfers Depends on Sar Protocol using the clustered based Wireless Jammer Networks'*, Australian Journal of Basic and Applied Sciences, ISSN: 1991-8178,8(9), pp. 72-77, 2014.
61. B Gopinath , S Suresh Kumar & Nithyakalyani S, *'Identification of Fault Location in Transmission Lines including Unified Power Flow Controller'*, International Journal of Applied Engineering Research, ISSN: 0973-4562, 10(52), pp. 177-186, 2015.

62. E Menaka, S Suresh Kumar ,*'Improving segmentation accuracy for detecting deforestation using texture feature derived from Landsat 8 OLI multispectral imagery'*, European Journal of Remote Sensing ,(Taylor & Francis) ,Vol. 48, pp. 169-181, 2015.
63. E Menaka, S Suresh Kumar, M Bharathi ,*'Cloud removal using efficient cloud detection and removal algorithm for high-resolution satellite Imagery'*, International Journal of Computer Applications in Technology, ISSN: 0952-8091, 51(1), pp. 54-61, 2015.
64. J Arun Paul , S Suresh Kumar *'Mining Software repositories on integrating Orthogonal Information retrieval Method improving automated Ir-based traceability processes'*, Australian Journal of Basic and Applied Sciences, ISSN:1991-8178, 9(11), pp. 334-342, 2015.
65. J Gladson Maria Britto, S Suresh Kumar *'Speaker Segmentation using Support Vector Machines and Auto Associative Neural Network'*, Australian Journal of Basic and Applied Sciences, ISSN: 1991-8178, 9(33) , pp. 37-44,2015.
66. M Kalyanasundaram , S Suresh Kumar , *'Iupqc Implementation For Power Quality Improvement On Distribution Network'*, Australian Journal of Basic and Applied Sciences, ISSN:1991-8178, 9(10), pp. 140-145, Special 2015.
67. M Iyapparaja, S Suresh Kumar,*'Intelligent risk analysis model for mining adaptable reusable component'*, International Arab Journal of Information Technology, ISSN: 1688-3198, 12(6A), pp. 680-687, 2015(Impact Factor 0.724).
68. M Iyapparaja, S Suresh Kumar, *'An Ample Survey of Risk Analysis in Software Reusable Components'*, Global Journal of Engineering Science and Research, ISSN: 2348-8034, 2(4), pp. 7-12., 2015.
69. M Iyapparaja, S Suresh Kumar, *'Normal Distribution and Questionnaire Based Assessment of Risk in Software Reusability'*, Australian Journal of Basic and Applied Sciences, 9(1), ISSN: 1991-8178, pp. 160-166, 2015. (Impact Factor 0.472)
70. M Iyapparaja, S Suresh Kumar, *'Rank based Reusability and Risk Assessment (RRRA) Model for software component Reusability'*, International Journal of Applied Engineering Research-(IJAER), ISSN: 0973-4562, 10(38) SI, pp. 28618-28623, 2015.

71. N Kopperundevi, S Suresh Kumar, 'Image restoration in Weaven Fabrics using Super resolution Thresholding Technique & its Application', International Journal of Applied Engineering Research-(IJAER), ISSN: 0973-4562, 10(21)SI, pp. 20019-20024, 2015.
72. A Mummoorthy, S Suresh Kumar, 'Energy Aware Routing Protocol Poisson Process using Diffusion Update Algorithm in WSN', Asian Journal of Research in Social Sciences and Humanities, ISSN: 2249-7315, 6 (7), pp. 772-786, 2016.
73. A Mummoorthy, S Suresh Kumar, 'Energy Aware Routing Protocol Poisson Process using Diffusion Update Algorithm in Wireless Sensor Networks', Asian Journal of Research in Social Sciences and Humanities, ISSN: 2249-7315 ,6 (6), pp. 130-147, 2016.
74. A Mummoorthy, S Suresh Kumar, 'Jammer Localization in Wireless Sensor Network using Percolation and poisson process', Asian Journal of Information Technology, ISSN: 1682-3915, 15(4), pp. 2322-2327,2016.
75. N Vijay, S Suresh Kumar, 'Distributed Monitoring of Sensor Networks in Agriculture', , International Journal of Advanced Research Trends in Engineering and Technology, ISSN: 2394-3777,2(24),pp. 242-247,2016
76. B Gopinath, S Suresh Kumar, 'Optimal Location and Sizing of Unified Power Flow Controller to Improve the Power System Stability Using Hybrid Method', Journal of Computational and Theoretical Nanoscience, ISSN: 1546-1955, 13(8), pp. 4971-4981(11), August 2016.
77. S Suresh Kumar, C Sivapragash, 'Time Orient Traffic Estimation Approach to Improve Performance of Smart Grids', Journal of Computational and Theoretical Nanoscience, ISSN: 1546-1955, 13(8), pp. 5037-5045(9), August 2016.
78. M Kalyanasundaram, S Suresh Kumar, 'Impact of Unified Power Quality Conditioner and Distributed Generation Model for Solving the Issues on Distribution System', Journal of Computational and Theoretical Nanoscience, ISSN: 1546-1955, 13(8), pp. 5194-5198(5) August 2016.
79. N Kamalamoorthy , S Suresh Kumar , 'Hybrid Power Generation for Distributed Grid Applications', Middle-East Journal of Scientific Research, ISSN: 1990-9233, 24 (1), pp. 51-58, 2016.
80. V Chandrasekar, S Suresh Kumar , 'A Dexterous feature selection Artificial Immune System Algorithm for Keystroke Dynamics', Journal Stochastic

Analysis and Applications ( Taylor & Francis) , 34(1) , pp. 147-154, 2016.

81. V Chandrasekar, S Suresh Kumar, T Maheswari , ' *Authentication based on keystroke dynamics using stochastic diffusion algorithm*', Journal Stochastic Analysis and Applications ( Taylor & Francis) , 34 (1), pp. 155-164, 2016.
82. N Kopperundeivi, S Suresh Kumar, ' *Novel Shrinkage Thresholding Technique using Sparsity with Minimization Regularization*', Asian Research Consortium-Asian Journal of Research in Social Sciences and Humanities, ISSN: 2250-1665, 6(12),pp. 592-602,2016.
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94. Vincent Paramanantham, S. Suresh Kumar, "Artificial Bee Colony Algorithm Optimization for Video Summarization on VSUMM Dataset'(IJACSA) International Journal of Advanced Computer Science and Applications, ISSN: 2156-5570 2158-107x DOI 10.104569 11(10), pp. 590-596,2020
95. Prabhakar K, S. Suresh Kumar, P. Prem Delphy, 'A Predictive Analysis for Sales Forecasting in Imbalanced Grocery Retail Datasets using Various Machine Learning Algorithms', Test Engineering & Management,Vol 83, pp. 3154-3163, 2020

## **Papers in Conference Proceedings**

### **International**

1. 'Improved adaptive run-length method for texture analysis', Emerging Adaptive systems and Technology by Noorul Islam College Engineering (NICE), Vol. I, pp. 818-825, 2005.
2. 'Hardwire aided Software Licensing', Emerging Adaptive systems and Technology by NICE, Vol. II, pp. 618-635, 2005.
3. 'Unsupervised Fuzzy C-Mean Classification of Texture Images using Improved Texture Energy Measure', Information and Communication Technology in Electrical Sciences by IET-UK Chennai Network and Dr M.G.R university, Vol. I, pp. 581-584, 2007.



4. *'Security Issues in nano-Technology'*, Emerging Adaptive systems and Technology by NICE, Vol. I. pp. 270-277, 2007.
5. *'Performance analysis in Elliptic Curve Cryptography in wireless Security'*, Emerging Adaptive systems and Technology, by NICE, Vol. II. pp. 362-367, 2007.
6. *'Distributed Document Clustering Scheme for Dynamic Node Management'*, International conference on Innovative Research in Engineering and Technology, 12<sup>th</sup> Aug, Vol.1, pp.134-139, 2010.
7. *'Improving Feature Extraction in Key stroke Dynamic using Optimization Techniques and neural Network'*, Sustainable Energy And Intelligent System by IET-UK Chennai Network and Dr M.G.R university, Vol. III, pp. 891-898, 2011.
8. *'Sea Object Detection using Shape and Hybrid Color Texture Classification'*, Computer Science, Engineering And Information Technology by Manonmaniam Sundharanar University , Tirunelveli ,Springer, Vol. I, pp. 19-31, 2011.
9. *'Forest Fire Detection Using Texture Analysis'*, Recent Advances in Technology, Engineering, Management and Science - ICRATEMS, by Vivekanandha College of Engineering for Women, pp. 66-72 , 2011.
10. *'Sea Object Detection using Color and Texture Classification'*, Recent Advances in Technology, Engineering, Management & Science by Vivekanandha College of Engineering for Women, Tiruchengode, pp.87-92, 2011.
11. *'Sea Object Detection Using Shape and Hybrid Color Texture Classification'*, Computer Science, Engineering and Information Technology by Manonmaniam Sundharanar University, Tirunelveli pp.175-180, 2011.
12. *'Test the Excellence of module set interactions in object oriented software system'*, Advanced Computing Technology (ICTACT) by J.K.K. Nattraja College of Engineering and Technology, pp. 321-330, 2012.
13. *'The Effect of UPFC and IPFC on Damping Oscillation in Power Systems'* by Indian Institute of Congress, Bangalore, pp.303-309, 2012
14. *'The effect of Unified Controller and Interline Power Flow Controller on Damping Oscillation in Power Systems'* by Baslios Mathews II College of Engineering, Kerala, pp.777-782, 2012.
15. *'Improvement of Damping Performance in Real and Reactive power using UPFC & IPFC'* by Stella Maris College, pp.651-657, 2012.
16. *'A Unified model damping performance improvement using UPFC & IPFC'* PPG by Institute of Technology, Coimbatore, pp.88-93, 2012.

17. *'A Unified Model for Analysis of Unified Power Flow Controller & Interline Power Flow Controller inamping Performance Improvement'* by PPG Institute of Technology, Coimbatore, pp.126-132, 2012.
18. *'Approaches for handling uncertainty in decision making'* on Emerging Technology trends in Advanced Engineering Research by Baselios Mathews II College of Engineering , Kollam, Kerala ,pp.11-17, 2012.
19. *'Techniques for handing Uncertainty'*, on Mathematics in Engineering and Business Management by Stella Maris College and Loyola Institute of Business Administration, Chennai ,pp.55-61, March 2012
20. *'Methodologies for Managing Uncertainty in Information Systems'* on Mechanics, Simulation and Control, Hong Kong, pp,1897-1902, 2012.
21. *'A succinct survey of Reusable packages in Software Engineering'*, Innovation in Engineering and Technology for Sustainable Development by Bannari Amman Institute of Technology, Sathyamangalam, pp.171-178, 2012.
22. *'Coupling and Cohesion Metrics in Java for Adaptive Reusability Risk Reduction'*, IET(UK) on Sustainable Energy and Intelligent System Conference (SEISCON-2012) at Vivekanandha College of Technology for women, Tiruchengode ,pp. 52-57. 2012.
23. *'Advanced Cloud Computing In Smart Power Grid '*, IET(UK) on Sustainable Energy and Intelligent System Conference (SEISCON-2012) at Vivekanandha College of Technology for women, Tiruchengode, pp. 351-356, 2012.
24. *'Assessment of sparse forest and fire detection using threshold watershed algorithm '*, IET(UK) on Sustainable Energy and Intelligent System Conference (SEISCON-2012) at Vivekanandha College of Technology for women, Tiruchengode, pp. 89-94, 2012.
25. *'Modified effective image restoration algorithm using an effective kernel matrix and smoothing parameter '*, IET(UK) on Sustainable Energy and Intelligent System Conference (SEISCON-2012) at Vivekanandha College of Technology for women, Tiruchengode, pp. 101-103, 2012.
26. *'Speaker Change Detection –An Comparative Study Using Support Vector Machines '*, IET(UK) on Sustainable Energy and Intelligent System Conference (SEISCON-2012) at Vivekanandha College of Technology for women, Tiruchengode , pp. 161-165, 2012.
27. *'Color based urban and agricultural land Classification by GLCM texture features'*, IET(UK) on Sustainable Energy and Intelligent System Conference (SEISCON-2012) at Vivekanandha College of Technology for women, Tiruchengode, pp. 192-195, 2012.

28. *'Energy Efficient Voronoi based fuzzy clustering for data aggregation in WSN'*, International Conference on Advanced Computing Technology, Vol. 1, pp.12-19,2012.
29. *'Review on Methods for Assessing the Reliability and Truthfulness of the User Based Online Information'* 2nd International Conference on Recent Advances in Engineering and Technology (ICRAET 2013), 27, February 2013, Hyderabad, India ,pp. 23-29,2013.
30. *'Change Detection in Deforestation Using High Resolution Satellite Image with Haar Wavelet Transforms'* IEEE Madras Section & St. Xavier's College , Proceedings of the International Conference on Green High Performance Computing ICGHPC 2013 & IEEE digital Library, May 2013
31. *'Data aggregation in wireless sensor network using Node clustering algorithms - a comparative study'*, IEEE conference on information and communication technologies (ICT- 2013), 11-12 April , pp. 508-515, 2013.
32. *'Genetically Optimized IPFC for Improving Transient Stability Performance in Power Systems'* , IEEE - Circuits, Power and Computing Technologies (ICCPCT), International Conference,Vol.2.No.2,pp.120-125, 2013.
33. *'A modified Effective Image Restoration Algorithm using an Effective Kernel Matrix and Smoothing Parameter'* International Conference, Second International Conference on Sustainable Energy and Intelligent Systems(SEISCON 2012), IET Chennai, p. 101 - 103, 2012.
34. *'A modified Effective Image Restoration Algorithm using an Effective Kernel Matrix and Smoothing Parameter'* International Conference, Second International Conference on Sustainable Energy and Intelligent Systems(SEISCON 2012),IEEE Explore Digital Library, E-ISBN : 978-1-84919-797-7, pp. 1 - 3, 2012.
35. *'Performance analysis of fuzzy based restoration technique for ink bleed-through degraded documents'*, Fourth IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA), DVD Part Number: CFP20J88-CDR; ISBN: 978-1-7281-6386-4, pp. 1136-1141,2020.
36. *'Performance Evaluation of pre-processing techniques for historical Palm Leaf Manuscript image restoration'*, Proceedings of the Fourth IEEE International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) DVD Part Number:CFP20OSV-DVD; ISBN: 978-1-7281-5463-3, pp. 425-430, 2020.

## National

1. *'Analysis of Texture Features for image classification'*, Recent Trends in Communication Techniques by NICE, Vol. III, pp. 95-100, 2004.
2. *'Storage and symbol based retrieval of ancient Tamil script and cultural archives stored as Textual Images'*, Advanced information Engineering and Computing Technology by PSNA College of Engineering and Technology (PSNACET), Vol. I, pp. 36-42, 2006.
3. *'Correlation of Laws Texture Energy Measures'*, Advanced information Engineering and computing Technology by PSNACET, Vol. I, pp. 24-29, 2006.
4. *'Segmentation of Non-enhancing Brain Tumors in MR images using unsupervised Fuzzy clustering algorithm'*, Advanced information Engineering and Computing Technology by PSNACET, Vol. I, pp. 20-23, 2006.
5. *'Automatic vehicle License Plate Recognition System'*, Recent Trends in Information Technology by Kamaraj College of Engineering and Technology (KCET), Vol. I, pp. 227-232, 2006.
6. *'Fraud Detection in credit card Transaction using DC-1 Data Mining algorithm and its prevention'*, Recent Trends in Information Technology by KCET, Vol. I, pp. 45-49, 2006.
7. *'Texture Recognition using region-Based segmentation'*, Recent Trends in Information Technology by KCET , Vol. I , pp. 141-144,2006.
8. *'Texture Filtering in Texture Spectrum using base5 method'*, Advances in Computer Communication and Instrumentation by St Xavier's Catholic College of Engineering (SXCCE), Vol. I, pp. 182-187, 2007.
9. *'Analysis of Laws feature using remote sensing images'*, Advances in Computer Communication and Instrumentation by SXCCE, Vol. I, pp. 116-121, 2007.
11. *'Analysis of Run-length using remote sensing images'*, Technological Innovation in Electrical systems by PET Engineering College, Vol. I, pp. 171-174, 2007.
12. *'Analysis various clustering techniques for large image database'*, Technological Innovation in Electrical Systems by PET Engineering College, Vol. I, pp. 155-164, 2007.
13. *'Base5 method of Texture Filtering in Texture Spectrum using Wavelet Transformation'*, Advances and Challenges in Multimedia Communication by NICE, Vol. I ,pp. 405-411, 2007.
15. *'Analysis various clustering techniques for large image database'*, Advances and Challenges in Multimedia Communication by NICE, Vol. I, pp. 461-470, 2007.
16. *'Analysis of Run-length using remote sensing images'*, Advances and Challenges in Multimedia Communication 2007 by NICE, Vol. I, pp. 494-501. *'A Novel approach for*

- Texture classification using wavelet transform*, Networks, Image and Security by NICE, Vol. I, pp. 144-148, 2008.
18. *'Classification of color Texture Images using wavelet based GLCM'*, Networks, Image and Security by NICE, Vol. I, pp. 129-133, 2008.
  19. *'Texture Classification using wavelet based Laws'*, Networks, Image and Security by NICE, Vol. I, pp.89-93, 2008.
  20. *'Segmentation of Brain Tumors using wavelet Transform'*, High Performance Computing Vision by Government College of Engineering, Tirunelveli, Vol. I, pp. 162-165, 2008.
  21. *'Virus Detection based on Virus throttle Technology'*, Communication and informatics by Lord Jegannath College of Engineering and Technology, Vol. I, pp. 77-81, 2009.
  22. *'Forest Fire Detection Using Segmentation'*, NCICT2K11 by SSM College of Engineering, Komarapalayam, Feb 4, 2011.
  23. *'Effective Forest Fire Detection Using Texture Analysis'*, On Emerging Issues In Computer Applications - EICA 11, by K.S.R. College of Engineering, Tiruchengode, Feb 10, 2011.
  24. *'Tamil Character Recognition using 2D<sup>2</sup> Principal Component Analysis'*, Microwave, Antenna & Signal Processing, by ITS Engineering College, Noida, April 22-23, 2011.
  25. *'Damping performance Improvement using UPFC & IPFC'* by Karpagam College of Engineering, Coimbatore, 3<sup>rd</sup> March 2012.
  26. *'Improvement of Damping Performance using UPFC & IPFC'* by INFO Institute of Engineering, Coimbatore, 24<sup>th</sup> Feb 2012.
  27. *'A Unified Model for the analysis of FACTS devices in damping power system Oscillation'*, Sathyabama University, Chennai, 1<sup>st</sup> & 2<sup>nd</sup> March 2012.

## **Professional Service**

### **Funded Conferences and Workshops Organized**

#### **Short-Term Training Programme (STTP)**

- AICTE-ISTE sponsored *'Multi-biometric Authentication Security'* by organized by CSE department, Vivekanandha College of Technology for Women 20<sup>th</sup> May to 2<sup>nd</sup> June 2011.
- AICTE sponsored *'Multimedia Communication Security'* by organized by IT department; Noorul Islam College of Engineering 17<sup>th</sup> may to 22<sup>nd</sup> May 2004.

### **National Seminar**

- AICTE sponsored 'Texture analysis and Algorithms' during 3<sup>rd</sup> and 4<sup>th</sup> June 2011 at , Vivekanandha College of Technology for Women.

### **National Conference**

- IET-UK sponsored 'Networks, Image and Security' NIS'08 during 14<sup>th</sup> and 15<sup>th</sup> March 2008 at Noorul Islam College of Engineering.

### **International Conference**

- IET-UK sponsored 'Sustainable Energy and Intelligent System' Seiscon'12 during 27<sup>th</sup>-29<sup>th</sup> December 2012 at Vivekanandha College of Technology for Women.

### **National Workshop**

- IET-UK sponsored 'Networks Simulator 2 (NS-2)' on 25<sup>th</sup> May 2008 at Noorul Islam College of Engineering.
- IET-UK sponsored 'Wireless Networks' on 28<sup>th</sup> and 29<sup>th</sup> August 2009 at Vivekanandha College of Engineering.

### **University Services**

- Senate Member of Manonmaniam Sundaranar University Tirunelveli Tamilnadu during 1997-2000.
- Question paper setter for B.E/M.C.A/M.Tech in various Universities.
- Examiner, Chief Examiner, VAT Member and Chairman for theory and Practical Examination of Various Universities for 18 Years.
- Coordinator for P.G.D.C.A Distance Education Course of Madurai Kamaraj University Tamilnadu at NICE for 3 Years.
- Professor-in-Charge for P.G.D.C.A Week End Course of Manonmaniam Sundaranar University Tamilnadu at NICE for 3 years.
- Professor-in-Charge for M.C.A Week End Course of Manonmaniam Sundaranar University Tamilnadu at NICE for 1 year.
- Professor-in-Charge for M.C.A Distance Education Course of Madurai Kamaraj University Tamilnadu at NICE for 2 years.
- Coordinator for M.Tech Week End Course of Punjab University at Nagercoil, Tamilnadu at NICE for 1 Year.

## Teaching

- Software Engineering
- Image Processing
- Operating systems
- Digital Systems
- Software Testing
- Programming courses
- Multimedia Systems
- Compilers Design
- Professional Ethics
- Data mining & Data warehousing
- Software Quality Assurance
- Systems Programming
- Mainframe Software
- Information Coding Techniques
- Computer Networks
- Parallel Programming
- Principal of Management
- Web Technology
- Computer Architecture
- Data Structure & Algorithms
- System Modeling simulation
- Computer Organization
- Cloud Computing