

# HINDUSTAN INSTITUTE OF TECHNOLOGY AND SCIENCE

## DEPARTMENT OF INFORMATION TECHNOLOGY

### FACULTY PROFILE



**Name of the faculty member** : Dr.A.Kumaresan  
**Present Designation** : Assistant Professor (Selection Grade)  
**Residential Address** : 41 Mariamman Koil st, Ellai Pillai chavady, Pondy - 5  
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Email : kummaresan@gmail.com  
**Gender** : Male  
**Date of Birth** : 07-09-1981  
**Date of joining the present post** : 01/07/2019

#### I. Particulars of Educational Qualification: (*only completed*)

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
Ph.D.	Ph.D	SPEECH PROCESSING	MARCH 2018	ANNA UNIVERSITY	ANNA UNIVERSITY	-	-
PG	M.E	COMPUTER SCIENCE	JUNE 2007	SKP ENGINEERING COLLEGE	ANNA UNIVERSITY	78	I
UG	B.E	COMPUTER SCIENCE	MAY 2003	VRS COLLEGE OF ENGINEERING	UNIVERSITY OF MADRAS	69	I

**II. Title of Ph.D. Thesis \*** : Developing Hybrid Tamil speech recognition engine (TSRE) for partial speech by extracting NAM signal and normal microphone signal

**III. Faculty in which Ph.D. was awarded** : Information and Communication Engineering

#### IV. Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE	AP(SG)	01.07.19			6	
DAYANANDA SAGAR UNIVERSITY, BANGALORE	AP	02.07.18	30.06.19	1		
SKP ENGINEERING COLLEGE, TIRUVANAMALAI	ASSOCIATE PROFESSOR & HEAD	01.07.07	01.06.18	10	11	
	LECTURER	14.06.04	31.07.05	1	1	
<b>Total</b>				13	6	

## V. Industrial Experience:

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
VEE SOFT TECHNOLOGIES	TRAINER	TRAINING	01.06.03	31.05.04	1	0	0
<b>Total</b>					1	0	0

**VI. Research Interests** : SPEECH PROCESSING, NETWORK SECURITY, IoT

## VII. Publications :

1. **A. Kumaresan.**, M. Suresh Anand, K. Deepak Keshav , G. Karthikeyan, B. Vigneshwaran, 'Posture Detection and Alerting System using Rtsc Algorithm', International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958 (Online), Volume-9 Issue-1, October 2019, Page No.3142-3145.
2. M. Suresh Anand, **A.Kumaresan**, R.Shubathra , M.Ragavi, R.Bhagya Lakshmi Priya, 'Sugar Level Detection using Thermal Image of the Palm', International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958 (Online), Volume-9 Issue-1, October 2019, Page No.3695-3697.
3. **A.Kumaresan et al**, (2018), 'Developing Indian Sign Language Recognition System for Recognizing English Alphabets with Hybrid Classification Approach', Indian Journal of Public Health Research & Development, vol. 9, issue no. 1, pp. 340-344
4. **A.Kumaresan, et al** (2017), 'Multimodal Features and Hybrid Classification for Indian Sign Language Recognition', International Journal of Pharmacy and Technology, vol.9, issue no. 1, pp. 28428-28436,(Impact Factor : 0.237)
5. **A.Kumaresan**, Kumar, N and M.Sureshanand, (2016), "Enhancing the Efficiency of Voice Controlled Wheelchairs using NAM for Recognizing Partial Speech in Tamil", *Circuits and Systems*, 7(10), 2884-2892. doi: [10.4236/cs.2016.78162](https://doi.org/10.4236/cs.2016.78162). (Impact Factor : 0.93)
6. **A.Kumaresan**, P.Selvaraj, N.Mohankumar, S.Mohanraj and M.Suresh Anand., "Application of L-NAM Speech in Voice Analyser", 2016. *Advances in Natural and Applied Sciences*. 10(5); Pages: 172-179. (Impact Factor : 0.551)
7. **Kumaresan, A**, Mohankumar, N., Sureshanand, M. and Suganya, J. (2016) "An effective recognition of partial speech using non audible murmur (nam) for speech impaired children", *International Journal of Control Theory and Applications*, 9(28) 2016, pp. 165-174. (Impact Factor : 0.169)
8. Suresh Anand, M, Mohan Kumar, N & **A.Kumaresan**, 2016, 'Recognition of NAM Speech - Indian English Alphabets using self-designed NAM microphone with HMM-Viterbi', *International Journal of Control Theory and Applications*, vol. 9, no. 28, pp. 157-164. (Impact Factor : 0.169)

9. Anand, M., Kumar, N. and **Kumaresan, A.** (2016), "An Efficient Framework for Indian Sign Language Recognition Using Wavelet Transform". *Circuits and Systems*, 7, 1874-1883. doi: [10.4236/cs.2016.78162](https://doi.org/10.4236/cs.2016.78162). (Impact Factor : 0.93)
10. M. Suresh Anand, **A. Kumaresan** S. Mohanraj, P. Selvaraj, and K. Vijaya Kumar, "Recognition and Translation of Sign Language Using SVM", 2016. *Advances in Natural and Applied Sciences*. 10(5); Pages: 180-185. (Impact Factor : 0.551)
11. S.Sibiya, **A.Kumaresan**, K.Vijayakumar, "A Secure Erasure Code-Based Cloud Storage System with Secured Data Forwarding", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 113-118. (Impact Factor : 0.551)
12. G.Bharanitharan, K.Vijayakumar, **A.Kumaresan**, "Classification of Emotions from Social Media Data", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 82-88. (Impact Factor : 0.551)
13. Velu.S, **A.Kumaresan**, K.Vijayakumar, "Analytical Approvals for E-Learning Customization Based on Web Usage of Mining Process and Information Development", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 131-136.
14. P.Subalakshmi, G.Nandakumar, **A.Kumaresan**, K.Vijayakumar, "Emergency Navigation in Rescue with Wireless Sensor Navigation (WSN)", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 125-130. (Impact Factor : 0.551)
15. V.Sivaranjani, G.Shanthi, **A.Kumaresan**, K.Vijayakumar, "A Slide Generation Approach Via Content Categorization", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 119-124. (Impact Factor : 0.551)
16. G.Ramadevi, S.Parvathi, **A.Kumaresan**, K.Vijayakumar, "Modern-Era Retrospective Analysis for Research and Applications", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 109-112. (Impact Factor : 0.551)
17. A.Priyanga, A.Owaiseahmed, **A.Kumaresan**, K.Vijayakumar, "Detection Fraudulent of Credit card Application Using Payment Gateway", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 103-108. (Impact Factor : 0.551)
18. A.Karthick, D.Murali, **A.Kumaresan**, K.Vijayakumar, "Twitterize: Anonymous Micro-Blogging in Computer Systems and Applications", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 96-102. (Impact Factor : 0.551)
19. R.Kalpanadevi@soumiya, K.Baskar, **A.Kumaresan**, K.Vijayakumar, "Rule Based Method in Entity Resolution for Efficient Web Search", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 89-95. (Impact Factor : 0.551)
20. K.Bhakiyalakshmi, G.Vidhyalakshmi, **A.Kumaresan**, K.Vijayakumar, "Network Traffic Classification Using Correlation Information", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 76-81. (Impact Factor : 0.551)
21. S.Agalya, S.Archana, **A.Kumaresan**, K.Vijayakumar, "An Effective Method To Incorporate Trusted Neighbours In Recommender Systems", 2017. *Advances in Natural and Applied Sciences*. 11(6); Pages: 70-75. (Impact Factor : 0.551)
22. Cessna Ben Therese. M, Nandakumar. G, **A.Kumaresan**, "Co-Extracting Judgement Target and Judgement Vocabulary from Online Reviews", 2016. *International Journal of Advanced Research in Biology Engineering Science and Technology (IJARBEST)*. 2(10); Pages 489-498
23. Sukanya.D, Parvathi.S, **Kumaresan.A**, Soniya.N, "Monitoring Network Traffic Based on Mapreduce in Simplified Data Processing Using Intrusion Detection System", 2016. *International Journal of Computer Science and Engineering Communications*, 4(2); Pages 1314-1318

24. A.Dhanalakshmi, Bhuvaneshwari, **A.Kumaresan**, "Doorstep Agricultural information for farmers", 2016. International Journal of Advanced Research in Biology Engineering Science and Technology (IJARBEST). 2(10); Pages 520-526
25. S.Vinothini, R.Gayathri, D.DurgaDevi, **A.Kumaresan**, K.Vijayakumar, "Human Disaster Avoidance Using Virtually Controlled Robotic Arm". Advances in Natural and Applied Sciences. 10(5); Pages: 192-197.
26. G.Nandhini, D.Murali, **A.Kumaresan**, "Multi-Word crawler harvesting for DWI", 2016. International Journal of Advanced Research in Biology Engineering Science and Technology (IJARBEST). 2(10); Pages 591-601
27. A.Sangeetha, Bhuvaneshwari, P.Selvaraj, **A.Kumaresan**, K.Vijayakumar, "Finding Experts In Collaborative Environment For Gaining Better Knowledge". Advances in Natural and Applied Sciences. 10(5); Pages: 79-84.
28. G.Devi Iswarya, V.lakshmipriya, M.Senthil, **A.Kumaresan**, "Detection of Isolation Attack Using OLSR Protocol on MANET". Advances in Natural and Applied Sciences. 10(5); Pages: 97-101.
29. C. Bhuvaneshwari, A. Sangeetha, K. Vijayakumar and **A.Kumaresan**., "Analyzing the Risk of Diabetes Mellitus using Patient EMR by Association Rule Mining", 2016. Advances in Natural and Applied Sciences. 10(5); Pages: 102-106.
30. R.Gayathri, D.Durga Devi, S.Vinothini, K.Baskar and **A.Kumaresan**, "Efficient Utilization of Cluster Resources Using HFSP Size Based Scheduling", 2016. Advances in Natural and Applied Sciences. 10(5); Pages: 124-128.
31. V. Lakshmi Priya, G. Devi Iswarya, M. Senthil and **A. Kumaresan**., "Multiple Secret Keys Based Security For Vehicular Adhoc Network", 2016. Advances in Natural and Applied Sciences. 10(5); Pages: 129-133
32. Durga Devi D, Vinothini S, Gayathri R, Archana S and **Kumaresan A**, "Data Prediction in Hierarchy using Wireless Sensor Network", 2016. Advances in Natural and Applied Sciences. 10(5); Pages: 139-142
33. R.Manjuparkavi, A.Ramya, K.Kalaignanam, P.Sivakumar, **A.Kumaresan** and M.Senthil, "Bandwidth Optimization in Wireless Sensor Networks-A Survey", Middle-East Journal of Scientific Research 23 (7); 1334-1340, 2015
34. Manjuparkavi.R, **Kumaresan.A**, Aishwarya.M, Dr.M.Senthil, Vijayakumar.K, "Performance Analysis of Shortest Best Path Tree-Based Decentralization Mechanism with Bandwidth Consumption in Wireless Sensor Networks", 2015, International Journal of Innovative Research in Science, Engineering and Technology, 4(6); 4060-4066
35. Balamalathy.N, Parvathi.S, **Kumaresan.A**, "An Efficient Method To Detect And Prevent Sybil Attack", 2015. International Journal of Computer Science and Engineering Communications, 3(2); Pages 685-690
36. Bhuvaneshwari.R, Murali.D, **Kumaresan.A**, "Augmenting Financial Inclusion through Mobile Phone Using USSD Application", 2015. International Journal of Computer Science and Engineering Communications, 3(2); Pages 651-656
37. Aishwarya.M, **Kumaresan.A**, Manjuparkavi.R., Maheswaran.R, Kalaignanam.K, "Verifiable Cryptographic based Data Transformation System", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), 4(5); Pages 2203-2207
38. Velu.S, Baskar.K, **Kumaresan.A**, Suruthi.K, "Landscape Pattern Mining using Machine Learning Intelligence", International Journal of Engineering and Techniques, Volume 1 Issue 3, May – June 2015; Pages 54-60

39. Kalaignanam.K, Aishwarya.M, Vasantharaj.K, **Kumaresan.A**, Ramya.A, "Effective Implementation of using Big Data in E-Health Insurance", *International Journal of Engineering and Techniques - Volume 1 Issue 3, May – June 2015; Pages 61-67*
40. Manimozhi.A, G.Nandhakumar, **Kumaresan.A**, "Security Defence Decision in Mobile Ad hoc networks", 2015. *International Journal of Computer Science and Engineering Communications*, 3(2); Pages 670-675
41. G.Manjula, **A.Kumaresan**, K.Vijaya Kumar, "Fast Clustering Algorithm Integrates Cluster Analysis and Sparse Structural Learning- An Effective Unsupervised Feature Selection", 2015. *Asian Journal of Engineering and Applied Technology (AJEAT) Vol.3.No.1; Pages 1-5*
42. S.Premalatha, A.E.Rajesh, **Kumaresan.A**, "Subjective and Objective Trusted Binary And Continuous Inference Models For Web Service QoS", 2015. *International Journal of Computer Science and Engineering Communications*, 3(2); Pages 676-684.
43. Ramya.A, Sankaran.L, **Kumaresan.A**, Manju Parkavi.R, Kalaignanam.K, Lokesh.V, "Dictionary Compression: An Optimal Answering for Continuous Top-k Dominating Queries", *International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)*, 4(5); Pages 2255-2260
44. Suruthi.K, Babu Kannan.K, **Kumaresan.A**, Velu.S, An Approach for analyzing keyframes based on Self Adaptive Threshold and Scene Descriptors, 2015. *International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)* 4(5); Pages 2249-2254
45. S.Sathyapriya, **A.Kumaresan**, K.Vijayakumar, Reducing Path Congestion and Failure In An Interactive Network Applications, 2014. *International Journal Of Research In Computer Application & Management*, 4(7); Pages 07-10
46. T.Kavya, **A.Kumaresan**, V.Raji, K.Vijayakumar, Developing an Alert System through Probabilistic Latent Semantic Indexing By Investigating Tweets, 2014. *International Journal of Engineering Research & Technology (IJERT)*, 3(4); Pages 158-162
47. Asha Baby, **A.Kumaresan**, K.Vijayakumar, A Secure Online Reputation Defence System from Unfair Ratings using Anomaly Detections, 2014. *International Journal of Computer Applications*, 93(1); Pages 17-21
48. P.Raghu, D.KaviBharathy, M.SureshAnand, J.JeganAmarnath, J.K.Periasamy, **A.Kumaresan**, Robust Face Recognition Technique Based on Granular Computation and Hybrid WLD Spatial Feature Extraction, 2014. *International Journal of Advanced and Innovative Research*, 3(4); Pages 106-112
49. P.Sudha, **A.Kumaresan**, K.Vijaya kumar and G.Nanda kumar, Geographical Approximate String Search for Retrieving Errorious Data in Spatial Database, 2014. *Asian Journal of Science and Applied Technology (AJSAT)* 2(1); Pages 1-6
50. P.Aswini, **A.Kumaresan**, D.Murali, Constraint based Clustering in Feature Subset Selection Algorithm, 2014. *International Journal of Computer Applications® (IJCA)*, NCWBCB-2014, Pages 1-6
51. M.Sathya, **A.Kumaresan**, K.Vijayakumar, TRI-Patternization on Generic Visualized Time Series Data, 2014. *International Journal of Computer Applications*, 94(20); Pages 34-39
52. R.Venkatesh and **A.Kumaresan**, Data Transfer Reliably and Congestion Control Strategies in Networks, 2014. *International Journal of Innovative Research in Science & Engineering*, 2(5); Pages 287-291

53. R.Kumar, M.Suresh Anand, **A.Kumaresan**, M.Senthil, K.VijayKumar, Device Independent & LMS Compatibility SCORM Based Hybrid Course Package Auto Generator, 2013. International Journal of Engineering Research & Technology, 2(7); Pages 1913-1923
54. M.Jerin Jose, V.Priyadharshni, M. Suresh Anand, **A. Kumaresan**, N.Mohan Kumar, Indian Sign Language (ISL) Translation System for Sign Language Learning, 2013. International Journal of Innovative Research & Development, 2(5); Pages 358-367.
55. V.Priyadharshni, M.Jerin Jose, M.Suresh Anand, **A. Kumaresan**, N.Mohan Kumar, [Hybrid Image Segmentation Using Edge Detection With Fuzzy Thresholding For Hand Gesture Image Recognition](#), 2013. International Journal of Innovative Research & Development, 2(5); Pages 444-456
56. M.Suresh Anand, **A.Kumaresan**, N.Mohan Kumar, An Integrated Two Way ISL (Indian Sign Language) Translation System – A New Approach, 2013. International Journal of Advanced Research in Computer Science, 4(2); Pages 7-12
57. S.Palani, **A.Kumaresan**, S.Murali, [A Vulnerable Scoring through Code-based Cloud Storage System with Sheltered Data Forwarding](#), 2013. International Journal of Computer Applications, 72(15); Pages 1-3

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**GOOGLE SCHOLAR-** <https://scholar.google.co.in/citations?user=CdJIKO4AAAAJ&hl=en>

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**SCOPUS-** <https://www.scopus.com/authid/detail.uri?authorId=57210766451>

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