

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

1. Name: Dr E. Sivasankar
2. Designation: Assistant Professor
3. Office Address: Room No. 202 A,
Dept of Computer Science and Engineering,
National Institute of Technology,
Tiruchirappalli -620015.
4. Telephone (Direct) (Optional):
Telephone: 0431-2503213 Extn (Optional):
Mobile (Optional): 9443744680
5. Email (Primary): sivasankar@nitt.edu Email(Secondary): sivasankarelango@gmail.com
6. Field(s) of Specialization: Databases, Data Mining, Artificial Intelligence,
Big Data Analytics

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology, Tiruchirappalli	2007	Present

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	Manonmaniam Sundaranar University	2012	Recommended	Computer Science and Engineering
M.Tech	Manonmaniam Sundaranar University	2006	First Class with distinction	Computer and Information Technology

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B.E.	Madurai Kamaraj University	1998	First Class	Computer Science and Engineering
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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels

1. Database Management Systems
2. Operating Systems
3. Data Warehousing and Mining
4. Computer Organization
5. Artificial Intelligence
6. Big Data Analytics

(iii) Projects guided at Postgraduate level

1. Emil Richard Singh M.S (By Research)

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Enactment of Data-analytic Techniques for Credit Risk Analysis
2. Sivarajan A M.S (By Research)

Neonatal Mortality Risk Classification using Machine Learning

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Artificial Intelligence Based Integrated Logistics Management System (ILMS)	NRB - DRDO	2020	2022	Ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Selvi C	Design and Implementation of Efficient Collaborative Based Filtering Techniques for Recommender Systems	Supervisor	2018
Vijaya J	Enactment of Data Analytics Techniques for Customer Churn Prediction in Telecommunication Sector	Supervisor	2018
Krishnakumari K	Design and Implementation of Domain Adaptation Techniques for Sentiment Classification	Supervisor	2021

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/	Date (s)	Role	Venue

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	National/ Local)			
Database Management Systems Held Under National Mission on Education Through ICT	National	21/05/2013 to 31/05/2013	Coordinator	National Institute of Technology, Tiruchirappalli
Data Analytics Concepts and Techniques for Business Intelligence	National	08/08/2016 to 13/08/2016	Convenor	National Institute of Technology, Tiruchirappalli
Workshop on Data Mining and Big Data Analytics	National	26/09/2016 to 30/09/2016	Coordinator	National Institute of Technology, Dimapur
Introduction to Soft Computing Techniques	National	26/10/2017 to 30/10/2017	Coordinator	National Institute of Technology, Tiruchirappalli
Introduction to Cryptography	National	01/11/2017 to 05/11/2017	Coordinator	National Institute of Technology, Tiruchirappalli
Advanced Concepts in Databases and Data Analytics	National	06/11/2017 to 11/11/2017	Coordinator	National Institute of Technology, Tiruchirappalli
Blockchain and Smart Contract	National	07/11/2019 to 11/11/2019	Secretary	National Institute of Technology, Tiruchirappalli
Artificial Intelligence and Machine Learning Techniques for Data Analytics	National	15/02/2021 to 19/02/2021	Coordinator	National Institute of Technology, Tiruchirappalli
Computational Intelligence for Multimedia	National	13/05/2021 to 17/09/2021	Coordinator	National Institute of Technology, Tiruchirappalli

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

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Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	IEEE	
Life Member	Web of Science	AAY-5197-2021

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
E. Sivasankar, R. S. Rajesh and S. R. Venkateswaran	Diagnosing Appendicitis Using Backpropagation Neural Network and Bayesian Based Classifier	International Journal of Computer Theory and Engineering	Vol. 1(4)	358-363	Oct-2009	
E. Sivasankar And R. S. Rajesh	Implementation of Support Vector Machines for Classification of Clinical Datasets	International Journal of Information Acquisition	07(04)	347-356	2010	
E. Sivasankar, Rengan Sivagurunathan Rajesh	Appendicitis diagnosis system using fuzzy logic-and neural network-based classifier”	International Journal of Medical Engineering and Informatics	3(4)	337-350	Jan-2011	

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Sivasankar Elango, H. Sridhar, V. Balakrishnan, Rengan Sivagurunathan Rajesh, K Ashwin	Comparison of dimensionality reduction techniques using a backpropogation neural network based classifier	International Journal of Information Acquisition	Vol. 08	161-169	2011	
Siva Brahmasani, E. Sivasankar	Two level verification for detection of DNS rebinding attacks	International Journal of System Assurance Engineering and Management	4(2)	138-145	Apr-2013	
Muhunthaadithya C, Rohit J.V., Sadhana Kesavan and Dr. E. Sivasankar	Clustering of Deep WebPages: A Comparative Study	International Journal of Computer Science and Information Technology	7(5)	157-166	Oct-2015	
Nithya B, Mala C, E. Sivasankar	Channel status based sliding contention window (CS-SCW) algorithm a fuzzy control approach for medium access in wireless networks	Soft Computing	Vol. 21(8)	1991-2004	Apr-2017	
Sivasankar Elango, Kalyan Krishnakumari	Aspect based summarisation in the big data environment	International Journal of Advanced Intelligence Paradigms	10		Jan-2018	
Selvi, C.,	A novel	Multimedi	Vol. 11	4303-	Nov-	

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E. Sivasankar	Adaptive Genetic Neural Network (AGNN) model for recommender systems using modified k-means clustering approach	a Tools and Applications		14330	2018	
Vijaya J, Sivasankar E	Computing efficient features using rough set theory combined with ensemble classification techniques to improve the customer churn prediction in telecommunication sector	Computing	100	839-860	Aug-2018	
Selvi, C., E. Sivasankar	A novel similarity measure towards effective recommendation using Matusita coefficient for Collaborative Filtering in a sparse dataset	Sādhanā	43	202	2018	
Selvi C, Sivasankar E	A novel optimization algorithm for recommender system using modified fuzzy c-means clustering approach	Soft Computing	23	901-1916	Mar-2019	
Sivasankar, E.,	A study of	Internatio	31(1)	1-26	May-	

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J. Vijaya	feature selection techniques for predicting customer retention in telecommunication sector	nal Journal of Business Information Systems			2019	
Vijaya J, Sivasankar E	An efficient system for customer churn prediction through particle swarm optimization-based feature selection model with simulated annealing	Cluster Computing	22	10757-10768	Sep-2019	
Sivasankar E, Vijaya J	Hybrid PPFCM-ANN model: an efficient system for customer churn prediction through probabilistic possibilistic fuzzy clustering and artificial neural network	Neural Computing and Applications	31	7181-7200	Nov-2019	
Sivasankar, E., Pradeep, R., Sivanandham, S	Identification of important biomarkers for detection of chronic kidney disease using feature selection and classification algorithms	International Journal of Medical Engineering and Informatics	Vol. 11		2019	
Sivasankar E, Selvi C, Mahalakshmi S	Rough set-based feature selection for credit risk prediction using weight-adjusted boosting ensemble	Soft Computing	24	3975-3988	Mar-2020	

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	method					
Krishnakumari , K., E. Sivasankar, Sam Radhakrishnan	Hyperparameter tuning in convolutional neural networks for domain adaptation in sentiment classification (HTCNN-DASC)	Soft Computing	24(5)	3511-3527	Mar-2020	
Madasu Avinash, Sivasankar Elango	Efficient feature selection techniques for sentiment analysis	Multimedia Tools and Applications	Vol. 79	9-10	Mar-2020	
Sivasankar E, Krishnakumari K, Balasubramanian P	An enhanced sentiment dictionary for domain adaptation with multi-domain dataset in Tamil language (ESD-DA)	Soft Computing	25(5)	3697-3711	Mar-2021	
E. Sivasankar, A. Sathish Kumar, J. Sanjivi, P. Balasubramanian	Analysis and prediction of breast cancer through feature selection and classification techniques	International Journal of Medical Engineering and Informatics	13(5)	359-375	Sep-2021	
Balasubramanian P, Sivasankar E, Vignesh Viswanathan	CB-Fake: A multimodal deep learning framework for automatic fake news detection using capsule neural network and BERT	Multimedia Tools and Applications	81	5587–5620	Dec-2021	
Divakaran Adwaith, Ashok Kumar Abishake, Siva	Enhancing multimodal disaster tweet classification	Multimedia Tools and Applications	81	18483–18501	Mar-2022	

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Venkatesh Raghul. Elango Sivasankar	using state-of-the-art deep learning networks	ns				
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Sivasankar, E., and R. S. Rajesh	Knowledge discovery in medical datasets using a Fuzzy Logic rule based classifier	International Conference on Electronic Computer Technology Conference	208-213		Kuala Lumpur	2010
Sivasankar, E., and R. S. Rajesh,	Design and Development of a Clinical Decision Support System for diagnosing appendicitis	IEEE Communications and Applications Conference	316-321		Hong Kong	2012
Nithya, B; Mala, C; Sivasankar, E	A novel cross layer approach to enhance QoS performance in multihop adhoc networks	IEEE Network-Based Information Systems (NbiS) 2014 17th International Conference	229-236		Salerno, Italy	2014
Srikrishnan, V; Sivasankar, E; Pitchiah, R	A performance comparison of scheduling	Networks & Soft Computing (ICNSC) 2014 First	375-379		Guntur, India	2014

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	distributed mining in cloud	International Conference				
Sridevi, M; Mala, C; Sivasankar, E; You, IIsun	Optimized multilevel threshold selection using evolutionary computing	IEEE Network-Based Information Systems (NBiS) 2014 17th International Conference	149-156		Salerno , Italy	2014
Ramya, AV; Sivasankar, E	Distributed pattern matching and document analysis in big data using Hadoop MapReduce model	Parallel, Distributed and Grid Computing (PDGC) 2014 IEEE International Conference	312-317		Solan, India	2014
Srikrishnan, V; Sivasankar, E; Pitchiah, R	A log data analytics based scheduling in open source cloud software	Parallel, Distributed and Grid Computing (PDGC) 2014 IEEE International Conference	390-395		Solan, India	2014
Raja, P Vignesh; Sivasankar, E	Modern framework for distributed healthcare data analytics based on Hadoop	Information and Communication Technology-Eur Asia Conference, Springer	348-355		Bali, Indonesia	2014
Selvi, C; Ahuja, Chakshu; Sivasankar, E	A Comparative Study of Feature Selection and	Intelligent Computing and Applications , Springer	367-379		New Delhi	2015

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	Machine Learning Methods for Sentiment Classification on Movie Data Set					
Mahalakshmi, S; Sivasankar, E	Cross domain sentiment analysis using different machine learning techniques	Proceedings of the Fifth International Conference on Fuzzy and Neuro Computing (FANCCO-2015), Springer	77-87		Cham	2015
Raja, P Vignesh; Sivasankar, E; Pitchiah, R	Framework for smart health: toward connected data from big data	Intelligent Computing and Applications, Springer	423-433		New Delhi	2015
Muhunthaadithya C, Rohit J.V, Sadhana Kesavan, Sivasankar Elango	Topic Modeling : Clustering of Deep Webpages	Fifth International Conference on Advances in Computing and Information Technology	19-27	Technical and practical aspects of high performance computing, green computing, pervasive computing, cloud computing	Chennai, India	2015
Sivasankar, E; Vijaya, J	Customer Segmentation by Various Clustering Approaches and Building an Effective Hybrid	Computational Intelligence in Data Mining, Springer	181-191	Advances in Intelligent Systems and Computing		2017

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	Learning System on Churn Prediction Dataset					
Sivasankar, E; Selvi, C; Mala, C	A Study of Dimensionality Reduction Techniques with Machine Learning Methods for Credit Risk Prediction	Computational Intelligence in Data Mining, Springer	65-76	Advances in Intelligent Systems and Computing		2017
Vijaya, J., E. Sivasankar, and S. Gayathri	Fuzzy Clustering with Ensemble Classification Techniques to Improve the Customer Churn Prediction in Telecommunication Sector	Recent Developments in Machine Learning and Data Analytics	261-274	Advances in Intelligent Systems and Computing		2018
Singh, B. Emil Richard, and E. Sivasankar	Enhancing Prediction Accuracy of Default of Credit Using Ensemble Techniques	First International Conference on Artificial Intelligence and Cognitive Computing	427-436	Advances in Intelligent Systems and Computing	Hyderabad, India	2018
Avinash, M., and E. Sivasankar	A study of feature extraction techniques for	Emerging Technologies in Data Mining and Information	475-486	Advances in Intelligent Systems and Computing	Kolkata, India	2018

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	sentiment analysis	Security				
Selvi, C., and E. Sivasankar	An efficient context-aware music recommendation based on emotion and time context	Data Science and Big Data Analytics	215-228	Big data analysis using computational intelligence techniques		2018
Krishnakumari K, Sivasankar E	Scalable Aspect-Based Summarization in the Hadoop Environment	Big Data Analytics, Springer	439-449	Advances in Intelligent Systems and Computing		2018
Ahuja C, Sivasankar E	Cross-Domain Sentiment Analysis Employing Different Feature Selection and Classification Techniques	Information and Communication Technology for Sustainable Development	167-179	Advances in Intelligent Systems and Computing	Goa, India	2018
Vijaya, J; Sivasankar, E	Improved Churn Prediction Based on Supervised and Unsupervised Hybrid Data Mining System	Information and Communication Technology for Sustainable Development	485-499	Advances in Intelligent Systems and Computing	Goa, India	2018
Singh, B Emil Richard; Sivasankar, E	Risk Analysis in Electronic Payments	IEEE International Conference on Cloud	14-19		Noida, India	2018

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	and Settlement System Using Dimensionality Reduction Techniques	Computing, Data Science & Engineering				
Selvi, C; Sivasankar, E	A Novel Singularity Based Improved Tanimoto Similarity Measure for Effective Recommendation Using Collaborative Filtering	IEEE International Conference on Cloud Computing, Data Science & Engineering	256-262		Noida, India	2018
Shriram S, Sivasankar E	Anomaly detection on shuttle data using unsupervised learning techniques	International Conference on Computational Intelligence and Knowledge Economy (ICCIKE)	221-225		Dubai, UAE	2019
Sathyamoorthy, Sruthi, and E. Sivasankar	A Clustering-based Framework for Fast Training of Classifiers	International Conference on Innovative Trends in Information Technology (ICITIIT)	1-6		Kottayam, India	2020
Ganesh, Venkataramana, Vignesh Viswanathan, Harshitha Sanjeev	Financial Sentiment Analysis: A Study of Feature Engineerin	Soft Computing and Signal Processing	225-240	Advances in Intelligent Systems and Computing	Hyderabad, India	2021

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Kumar, and E. Sivasankar.	g Methodologies					
A. Sivarajan, E. Sivasankar, Bala Adithya	Comparing the predictive accuracy of machine learning algorithms for neonatal mortality risk classification	3rd International Conference on Machine Intelligence and Signal Processing (MISP 2021)	325-339	Lecture Notes in Electrical Engineering	NIT Arunachal Pradesh	2021
A. Sivarajan, Bala Adithya, E. Sivasankar	Balancing of an imbalanced dataset by applying SMOTE variants and predicting neonatal mortality using ensemble learning techniques	2022 International Conference on Innovative Trends in Information Technology	1-6		Online	2022

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number