Dr. S. Santhoshkumar

Assistant Professor (Stage 2)

Contact

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Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D.	Prist University	**2014**	Computer Science	**Awarded**
M. Tech	Bharathidasan University	**2012**	Information Technology	**First Class**
M. Phil.	Periyar University	**2004**	Computer Science	**First Class**
M.Sc.	Bharathidasan University	**2002**	Information Technology	**First Class**
P.G.D.C.A	Bharathidasan University	**2001**	Computer Application	**First Class**
B.Sc	Bharathidasan University	**2000**	Chemistry	**First Class**

Teaching Experience

Total Teaching Experience   : 20 Years

Position	Institution	Duration
Assistant Professor	Department of Computer Science, Alagappa University, Karaikudi	8 years 3 months (Continue)
Guest Lecturer	Department of Computer Science, Government College for Women (Autonomous) Kumbakonam	12 years 2 months

Research Experience

Total Research Experience:**13 years**

Position	Institute/University	Duration
Assistant Professor	Department of Computer Science	8 years 3 months (till date)
Researcher	PRIST University, Thanjavur	5 years 2 months

Academic and Additional Responsibilities

S. No	Position	University Bodies	Period From	Period To
1	Programme Co-Ordinator	M.Sc. Cyber Forensics	2024	-*
2	TANSCHE	Training Partner Co-Ordinator	2023	-*
3	Co-Ordinator	Institution's Innovation Council 5.0	2023	-*
4	Deputy Coordinator	Digital Education Cell (DEC)	2023	-*
5	Training Partner Coordinator	Nan Mudhalvan Scheme	2023	-*
6	Deputy Coordinator	IIC – ALU, EIC, YUKTI- NIR Scheme	2022	2023
7	Member	CD & DC Constitution of Board of Studies in M.Phil, Computer Science	2022	-*
8	Member	Institution's Innovation Council – Alagappa University (IIC-ALU)	2021	2022
9	Department Coordinator	Placement Cell	2020	-*
10	Coordinator	Training and placement	2020	-*

11	Event Coordinator	ALAGU ARAM	2019	2020
12	Coordinator	SWAYAM	2019	-*
13	Coordinator	Swatch Bharat Abhiyan	2019	-*
14	Coordinator	Village Extension Programme	2018	-*
15	Coordinator	Swatch Bharat	2018	2019
16	Coordinator	Swayam	2018	2019
17	Coordinator SWACHHTA HI SEVA 2018	Village level rally for sanitation	2018	2019
18	Swatch Bharath Coordinator	Awareness	2018	-*
19	Swayam Coordinator	Online learning	2018	-*
20	Department Coordinator	SWATCH Bharat Abhiyan	2017	-*
21	Coordinator – NET/SET Coaching	Conduct Coaching Classes	2017	2018
22	Consumer Club Member	Consumer Club Event	2017	2018
23	Coordinator- Students Blog & Forum	Blog and Forum Creation and Maintenance	2016	2017
24	Coordinator- Go green Committee	Activities for Green Environment Awareness	2016	2017
25	Event Coordinator	ALUTES	2016	-*
26	Co-Ordinator Mentor Mentees	Mentor Assignment, Group Activities	2016	-*
27	Member	Research Advisory Committee (RAC)	2016	-*
28	University Representative	DDE Exams	2016	-*

Areas of Research

Research Expertise: Data Mining, Machine Learning, IoT

Area of Specialization: Health Care Analytics, Swarm Intelligence, Smart Farming

Current Research focus

➢ **Non-Communicable Disease (NCD) based computational model and data analysis**

Healthcare analytics using machine learning is a transformative approach that leverages ML techniques to analyze vast amounts of healthcare data, leading to improved patient outcomes and optimized healthcare delivery. Predictive modeling identifies high-risk patients for early intervention, while diagnosis and disease detection involve analyzing medical images to detect diseases accurately. Personalized medicine develops targeted treatment plans based on individual patient data, and clinical decision support provides valuable recommendations to healthcare providers. EHR analysis uncovers patterns and insights from electronic health records, enabling data-driven decision-making. Fraud detection identifies fraudulent activities within healthcare data, protecting the integrity of the healthcare system. Resource allocation and optimization, such as staff scheduling and inventory management, are streamlined using ML algorithms. Common ML techniques employed in healthcare analytics include supervised learning, unsupervised learning, deep learning, and natural language processing. Successful implementation requires robust data infrastructure, data quality, security measures, collaboration with experts, and careful consideration of ethical issues like patient privacy and algorithmic bias.

➢ **Development of databases**
  ❖ Auto Immune Data Bases for Rheumatoid Arthritis and Thyroid diseases
  ❖ Type II Diabetes Databases
  ❖ Chronic Kidney Disease Databases

➢ **Development of Smart Drip Irrigation Model using Machine Learning and Deep LearningTechniques**
  The development of a Smart Drip Irrigation Model using Machine Learning and Deep Learning techniques is a promising approach to optimize water usage in agriculture. This model aims to intelligently control the drip irrigation system based on real-time data analysis. By utilizing sensors to collect data on soil moisture, temperature, humidity, and weather conditions, the model can make accurate predictions and decisions. Machine learning algorithms analyze the collected data to determine the optimal irrigation schedule, considering factors such as crop type, growth stage, and environmental conditions. Deep learning techniques, such as neural networks, can further enhance the model's accuracy by learning from historical data and adapting to changing conditions. The Smart Drip Irrigation Model enables precise water application, reducing water waste and improving crop yield. It also provides farmers with valuable insights and recommendations, empowering them to make data-driven decisions. By implementing this model, farmers can achieve sustainable and efficient irrigation practices, ultimately contributing to water conservation and improved agricultural productivity.

Patents Filed

S. No.	Title of Patent	Author(s)	Patent Number	Date	Status (Filed /Published /Granted)
1	Raspberry Pi Based Elderly Fall Detection System for Elderly People using IoT and Big Data	**Dr. S. Santhoshkumar**, Mrs. A. Sumathi, Dr. S. Meganathan, Dr. C. Balakrishnan, Dr. S. Gavaskar, Mr. Velmurugan Subbiah Parvathy, Mrs. K. Jose Reena, Mrs. S. Belina V. J. Sara, Dr. N. Krishnaraj	202041009944	13.03.2020	Published
2	IoT Based Smart Dustbin	E. Ramaraj, K. Kranthi Kumar, P. Geetha, **S. Santhoshkumar**, A. Senthilrajan, Koushik Majumder, R. Suneetha Rani, Kartar Singh, Emmanuel Babu Pukkunnen, P. Jenopaul	2021103608	25.05.2022	**Granted**
3	Internet of Things constituted consumer centric pharmaceutical cold-chain management system and preservation methods thereof	Dr. C. Balakrishnan, Dr. G. Ilankumaran, Mr. M. Angappan, Mr. R. Hemant Kumar, **Dr. S. Santhoshkumar**, Ms. A. Sumathi, Dr. M. Nandhini, Mr. A. Thasil Mohamed, Mr. J. Arumai Ruban	202141001101	19.01.2021	Published
4	A system and method for autoimmune arthritis disease prediction using machine learning meta-heuristic algorithms	R. Uma, **Dr. S. Santhoshkumar**	202341046959	01.09.2023	Published
5	A System and Method for Chronic Kidney Disease Detection and Classification using Henry Gas Optimization Methodology	**Dr. S. Santhoshkumar**	202341066788	20.10.2023	Published

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph. D	**2**	**4**
	M. Phil	15	Nil
	PG	240	20
Project	UG / Others	24	Nil

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
50	**15**	**1**	**8**	**2**

Publications

Cumulative Impact Factor (as per JCR) : 9.07

h-index : 7

i10 index : 3

Total Citations :150

Thesis Evaluated : 8

Viva voce Examiner : 7

Funded Research Projects

Ongoing Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	**To**		
1	**RUSA - TBRP**	2022	2023	Prognosis Model for Chronic Illness Pre- Mature Mortality Using Electronic Health Records (EHR) towards Sustainable Well- being and Healthy Life	4.00
2	**RUSA - EIR**	2023	2024	An Optimization model for sugarcane cultivation using IoT and Machine Learning Techniques	.50

Completed Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	**To**		
1	**AURF – Seed Money Grant**	2017	2018	Mitigation of Distortion of Honey Bees Caused by EMF Radiation of Cell Phone Towers and Mobile Phones	.35
2	**AURF – Startup Grant**	2018	2019	Cloud Based Distributed Data base Integration for Medical Analysis	.50
3	**RUSA**	2019	2020	Mathematical Modeling and Computational Intelligence **Sub title:** Health Care Analytics and Smart Farming using IoT and Big Data	.73

Distinctive Achievements / Awards

S. No	Awards / Honors	Granting Institution	Year	Description
1	Appreciation Certificate in Theme Based Research Project of RUSA 2.0	Alagappa University	2019-2020	Quality Enhancement in Teaching and Research

2	Appreciation Certificate	Alagappa University	2020-21 to 2022-23	Recognition for his outstanding Academic and Research excellence in acquiring the patent

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 12

Position	Programme	Duration	Institution
Keynote Speaker	Three-Day International Workshop on "Data Analytics & Visualization"	31st October 2023	Mother Teresa Women's University, Madurai Campus, Madurai
Organizing Secretary	International Conference on Recent Trends in Computer Science	30th & 31st March 2023	Department of Computer Science, Alagappa University, Karaikudi
Resource Person	National Seminar on "Innovative, Technology and Research to empower Women"	8th March 2023	Research and Development Cell , Thassim Beevi Abdul Kader College for Women (Autonomous), Kilarkarai
Session Chair	International Conference on Recent Trends in Computer Science	30th & 31st March 2023	Department of Computer Science, Alagappa University, Karaikudi
Organizing Secretary	One Day Workshop on Internal Hackathon and Reward Best Ideas of Yukti-NIR 2023	24th February 2023	Institution's Innovation Council (IIC) & HEIC, Alagappa University, Karaikudi
Resource Person	International Conference on Recent Trends in Science, Engineering & Technology,	19th November 2022	Department of Computer Science, PSG College of Arts & Science, Coimbatore
Co-Ordinator	Three day Workshop on Multimedia Animation and Internet of Things ,	28th & 30th September 2022	Department of Computer Science, Alagappa University, Karaikudi
Resource Person (Expert Lecture)	Online Conference, "Prevalent and Prospective Paradigms in Machine Learning for Applications in Biology"	24th & 25th February 2022,	Nirmala College for Women (Autonomous), Department of Bioinformatics, Coimbatore – 641 018
Judge	National Level Virtual Symposium	22nd & 23rd December 2021	Alagappa Institute of Skill Development, Alagappa University, Karaikudi

Special Talk	One Day Seminar on Advances in Information Technology	27th February 2020	Vidhyaa Giri College of Arts and Science, Puthuvayal, Karaikudi
Reviewer / Session Chair	International Conference on Computational Intelligence and Applications	08th August 2019	Department of Computational Logistics, Alagappa University, Karaikudi
Special Lecture	Two-Days National Seminar	13th July 2019	Government College for Women (Autonomous), Kumbakonam
Resource Person	One Day State Level Seminar: Invited Talk	12th February 2019	Ananda College college of arts and science, Devakottai
Key-note Address	Two days Conference in Introduction to Data Science Regional level "Data Providers and Data users"	13th & 14th March 2018	Organized by Department of Economics and Statistics, Regional Statistics office, Government of Tamil Nadu, Madurai
Reviewer	International Conference on Information, Communication and Digital Security(ICICDS 2018)	21th & 22th March 2018	Alagappa University, Department of Computer Application, Kumbakonam,
Session Chair	International Conference on Information, Communication and Digital Security(ICICDS 2018)	21th & 22th March 2018	Department of Computer Application, Alagappa University, Karaikudi
Resource Person	Two Day Conference	14th & 15th March 2018	Department of Economics and Statistics, Government of Tamil Nadu
Resource Person	Two Day Workshop	07th & 08th March 2018	Department of Economics Government College for Women (Autonomous), Kumbakonam
Programme Coordinator	Training Programme On Data Analytics Consultants	26th & 27th & 28th February 2018	Alagappa University, Department of Computer Science
Co-Convener	Cyber Security(NCCS-2018)	25th January 2018	Alagappa University, Department of Computer Science, Karaikudi
Session Chair	Cyber Security(NCCS-2018)	25th January 2018	Alagappa University, Department of Computer Science, Karaikudi
Organizing Committee Member	Two-Day Workshop on Computational Science Techniques For Understanding & Solving Complex Real World Problems	4th & 5th January 2018	Department of Computer Science, Alagappa University, Karaikudi
Expert Lecture	Computer Science Association Meeting	08.09.2017	Ananda College, Devakottai

Expert Lecture	One day Seminar	17.08.2017	Idhaya College for Women, Kumbakonam
Co Chair	National Conference on Emerging Trends in Computing NCETC 2017	13 & 14th April 2017	Alagappa University, Department of Computer Science, Karaikudi
Organizing Secretary	National Conference on Emerging Trends in Computing	13 & 14th April 2017	Alagappa University, Department of Computer Science, Alagappa University, Karaikudi
Co-Convenor	Career Prospects and Developments in Computer Science 2 days Workshop	27 & 28th Feb 2017	University Business Collaboration Centre and Department of Computer Science
Session Chair / Reviewer	IT Skills Show & International Conference on Advancements in Computing Resources	15th & 16th February 2017	Alagappa Institute of Skill Development & Computer Centre, Karaikudi
Session Chair	National Seminar on Advances in Computer Science	21 & 22nd October 2016	Alagappa University, Department of Computer Science, Karaikudi
Organizing Secretary	National Seminar on Advances in Computer Science	21 & 22nd October 2016	Alagappa University, Department of Computer Science, Karaikudi
Coordinator	International Workshop on Data Science & Analytics	27 & 28th Sep 2016	Alagappa University, Department of Computer Science
Resource Person	One Day Seminar	10.08.2016	Bharath College of Science and Management, Thanjavur
Special Lecture	Department Association Meeting	01.08.2016	Ananda College, Devakottai
Reviewer / Session Chair	International Conference on Innovations in Computer Science and Technology (ICICST-2016)	04 & 05th April 2016	Department of Computer Science, Alagappa University, Karaikudi
Organizing Committee Member	International Conference on Innovations in Computer Science and Technology (ICICST-2016)	04 & 05th April 2016	Department of Computer Science, Alagappa University, Karaikudi

Events Participated

Number of Conferences / Seminars / Workshops:42

Overseas Exposure / Visits

S. No.	Country	Purpose of Visit	Year	Institution / Organization
1.	Singapore	AR and VR lab visit, National University of Singapore	5th September 2019	National University of Singapore (NUS) Singapore
2.	Malaysia	Expert Lecture Research Lab, Department of Information Systems, University of Malaya	4th September 2019	University of Malaya Malaysia

Membership

S.No.	Membership Type	Membership Date	Organization Name
1	Member	3rd January 2024	International Association of Engineers
2	Member	14th February 2019	Bose Science Society

Advisory Board

Year / Period	Name of the BoS / AdministrativeCommittee / Academic Committee	Role
2024-*	Question Paper setting Board for B.Sc Computer Science	Chairman
2024-*	Directorate of Collaborative Programmes for UG Computer Science	Subject Expert
2023-*	M.Sc (Cyber Forensics)	Member –BOS
2015 - *	M. Sc (Computer Science)	Member – Broad-based BOS

2015 - *	M. Phil (CS)	Member – Broad-based BOS
2015 - *	Ph. D (CS)	Member - Coursework DC

Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2023-2026 07.06.2023 (3 years)	Government College for Women (Autonomous), Kumbakonam	Subject Expert for the UG & PG Board of Studies in Computer Science
2022-2025 08.02.2022 (3 years)	Academic Council of J.J College of Arts and Science (Autonomous)	Subject Expert in Computer Application (U.G. & P.G.)
January 2019- December 2021	M.Sc CS Member, Board of Studies, Sri S. Ramasamy Naidu Memorial College, Sattur, Virudhunagar	Subject Expert
2019-*	Bharathiar University Trichy	Doctoral Committee Member
2019-*	PRIST University Thanjavur	Doctoral Committee Member

Ph.D. Thesis Guided

S. No	Name of the Scholar	Title of the Thesis	Year of Completion
1	Anwar R Shaheen	Improving The Quality Of Service And Resource Scheduling In Cloud Computing	2023
2	A. Thasil Mohamed	Contextual Health Care Model To Predict Related Diseases For Patients Affected By Diabetes	2024

List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1	Gokiladevi, M., and **Sundar Santhoshkumar**. "Henry Gas Optimization Algorithm with Deep Learning based Chronic Kidney Disease Detection and Classification Model." *International Journal of Intelligent Engineering & Systems* 17, no. 2 (2024).	**1.6**
3	Uma Ramasamy and **Sundar Santhoshkumar**, "A Work Review on Clinical Laboratory Data Utilizing Machine Learning Use-Case Methodology," Journal of Intelligent Medicine and Healthcare 2(1), 1-14, (2023) DOI: 10.32604/jimh.2023.046995	**-**
4	Uma Ramasamy and **Sundar Santhoshkumar**, "Benchmark Datasets and Real-time Autoimmune Disease Dataset Analysis Using Machine Learning Algorithms with Implementation, Analysis and Results", Journal: Journal of Intelligent & Fuzzy Systems, vol. 45, no. 2, pp. 2449-2463, 2023, DOI: 10.3233/JIFS-224115	**2.0**
5	Shaheen, Anwar R., and **Sundar Santhosh Kumar**. "Tasks Scheduling in Cloud Environment Using PSO-BATS with MLRHE." *Intelligent Automation & Soft Computing* 35, no. 3 (2023).	
6	Gokiladevi, M., and **Sundar Santhoshkumar**. "Design of chaotic black hole based feature selection with classification for Chronic Kidney Disease diagnosis." *Journal of Intelligent & Fuzzy Systems* 44, no. 2 (2023): 2999-3010.	**2.0**
7	Uma Ramasamy, **Sundar Santhoshkumar** (2022), "Analysis of Suitable Machine Learning Imputation Techniques for Arthritis Profile Data", IETE Journal of Research, DOI: 10.1080/03772063.2022.2120914. Published online 15th September 2022	**1.5**
8	Gokiladevi, M., **Sundar Santhoshkumar**, and Vijayakumar Varadarajan. "Machine learning algorithm selection for chronic kidney disease diagnosis and classification." *Malaysian Journal of Computer Science* (2022): 102-115.	**0.723**
9	Mohamed, A. Thasil, **Sundar Santhoshkumar**, and Vijayakumar Varadarajan. "Intelligent deep learning based predictive model for coronary heart disease and chronic kidney disease on people with diabetes mellitus." *Malaysian Journal of Computer Science* (2022): 88-101.	**0.723**
10	Uma. R, **Sundar Santhoshkumar Sundar Santhoshkumar**, "An Illustration of Rheumatoid Arthritis Disease Using Decision Tree Algorithm", An International Journal of Computing and Informatics, Informatica 46(2022) 107-119, Vol 46, No. 1 March 2022, ISSN 0350-5596.	**0.7**
11	Shaheen, Anwar , **Sundar Santhoshkumar**. "Efficient Task Scheduling of Virtual Machines using Novel Spectral Partitioning and Differential Evaluation Algorithm." *International Journal of Advances in Soft Computing & Its Applications* 14, no. 1 (2022).	**1.78**
12	Mohamed, A. Thasil, and **Sundar Santhoshkumar**. "Deep Learning Based Process Analytics Model for Predicting Type 2 Diabetes Mellitus." *Computer Systems Science & Engineering* 40, no. 1 (2022).	

13	**Santhoshkumar, Sundar**, Vijayakumar Varadarajan, S. Gavaskar, J. Jegathesh Amalraj, and A. Sumathi. "Machine learning model for intracranial hemorrhage diagnosis and classification." *Electronics* 10, no. 21 (2021): 2574.	2.9
14	**Sundar Santhoshkumar,** M. Meenatchi, "Smart Self Automated Speed Breaker System To Control Vehicle Speed Using IoT", Journal of critical reviews (JCR)	-
15	Ruban, J. Arumai, C. Balakrishnan, **S. Santhoshkumar**, and G. Jagan. "Study of smart farming techniques in drip irrigation using IoT." *International journal of advanced science and technology* 29, no. 2 (2020): 4595-4613.	-
16	Uma. R, **Santhoshkumar S**, "Analysis of Entropy Measures using ID3 Algorithm with Iris Dataset", International Journal of Advanced Science and Technology, 29(2). pp. 4614-4625.ISSN:2005-4238 (2020). http://sersc.org/journals/index.php/IJAST/article/view/28467	-
17	**S. Santhosh Kumar,** C. Balakrishnan, S. Gavaskar, J. Joseph Sahayarayan , J. Jegathesh Amalraj, "Early Evaluation of Type-2 Diabetics Mellitus Disease", International Journal on Emerging Technologies (2020)	-
18	Balakrishnan, C., R. M. Vidhyavathi, K. Kavitha, J. Joseph Sahayarayan, and **S. Santhosh Kumar**. "Mathematical Model-Based Speech Signals Processing Effects on Human Stress." *International Journal of Emerging Trends in Engineering Research* 8, no. 2 (2020): 361-364.	-
19	Suganya, S., T. Meyyappan, and **S. Santhosh Kumar**. "Performance Analysis of K Means and K Mediods Algorithms in Air Pollution Prediction." *IJRTE* 8, no. 5 (2020): 3573-3577.	-
20	Gokiladevi, M., **Sundar Santhoshkumar**, S. Gavaskar, and J. Jegathesh Amalraj. "Study And Identification Of Possible Research Directions Of Chronic Kidney Disease (Ckd) Prediction Using Data Mining Techniques." *Journal of Critical Reviews* 7, no. 10 (2020): 1908-1911.	-
21	Suganya, S., T. Meyyappan, and **S. Santhosh Kumar**. "Performance Analysis of K Means and K Mediods Algorithms in Air Pollution Prediction." *IJRTE* 8, no. 5 (2020): 3573-3577.	1.0
22	**Santhoshkumar, Sundar**, A. Thasil Mohamed, and E. Ramaraj. "Process analytics model for health care using iot and big data techniques." *International Journal on Emerging Technologies* 10, no. 4 (2019): 197-200.	-
23	Langeswaran, K., **S. Santhosh Kumar**, and S. Gavaskar. "Antioxidant, anti-microbial and anti-cancer effectiveness of marine macro alga Ulva fasciata Delile." *Biomed Res* 30, no. 4 (2019): 617-627.	2.5
24	M. Sangeetha, **Sundar Santhoshkumar**, C.Balakrishnan, P.Subhasri, V.Lankeswara, "Cloud Based User Analytics And Dynamic Page Refreshment Application For Web Portal", International Journal of Recent Technology and Engineering (IJRTE)	1.0
25	E .Ramaraj, N.Akshaya, **Sundar Santhoshkumar**, "Credit Card User Frequent Buying Predicton Analysis using Cluster Methods", International Journal of Innovative Technology and Exploring Engineering	-
26	**S. Santhoshkumar,** S.Arunpandian , S.S.Dhenakaran, "IoT Enabled Visual Recognition Model for Biometric Authentication", International Journal of Advanced Trends in Computer Science and Engineering	-
27	Nedunchezhian, Dharani, Kulanthaivel Langeswaran, and **Sundar**	1.9

	Santhoshkumar. "Identification of novel inhibitor targeting Fyn kinase using molecular docking analysis." *Bioinformation* 15, no. 6 (2019): 419.	
28	Hemakala, T., and **S. Santhoshkumar**. "Advanced classification method of twitter data using sentiment analysis for airline service."*International Journal of Computer Sciences and Engineering* 6, no. 7 (2018): 331-335.	
29	**Sundar Santhoshkumar**, "A simple data mining model for heart disease prediction", Journal of Global Pharma Technology	**0.33**
30	**Santhoshkumar, S.**, C. Balakrishnan, and R. Muthulakshmi. "A STUDY OF STRESS CAUSED BY SOCIAL INTERACTIONS IN SOCIAL NETWORKS."	**-**
31	**S. Santhoshkumar**, "Study and Analysis of Infrequent Behaviour Patterns in Business Process Event Logs," International Journal of Computer Science and Mobile Computing	**-**
32	**S. Santhoshkumar**. "Colony collapse disorder (CCD) in honey BeesCaused by EMF radiation." *Bioinformation* 14, no. 9 (2018): 521.	**1.9**
33	Kulanthaivel, Langeswaran, Jeyakanthan Jeyaraman, Abir Biswas, Gowtham Kumar Subbaraj, and **S. Santhoshkumar**. "Identification of potential inhibitors for Penicillinbinding protein (PBP) from Staphylococcus aureus." *Bioinformation* 14, no. 9 (2018): 471.	**1.9**
34	**Santhoshkumar, S**. "A Study of Data Mining Techniques for Auto Immune Diseases."*International Journal of Pure and Applied Mathematics* 118, no. 9 (2018): 1-4.	
35	Mareeswari, A., and **S. Santhosh Kumar**. "Decentralized KDC Scheme with Verifiable Outsourcing of Key Updates in Cloud Computing. *"International Journal of Knowledge Based Computer Systems* 5, no. 2 (2017).	
36	**Santhoshkumar, S.,** and A. Sumathi. "Compartive study of upper ontologies in interoperability view. *"International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)* 3, no. 20 (2016).	**-**
37	**S. Santhoshkumar**, and Dr E. Ramaraj. "Measure of Inequality and Improved Classification Accuracy Using PMTCT HIV Data." *International Journal of Pharma and Bio Sciences, ISSN* (2016): 0975-6299.	**-**
38	**S. Santhoshkumar**, M. M. Shanmugapriya, "Medical Image Fusion Based on Fuzzy Logic", Journal of Recent Research in Engineering and Technology 3(4), 2016, pp 41-48	**-**
39	**S. Santhoshkumar**, and Dr E. Ramaraj. "Measure of Inequality and Improved Classification Accuracy Using PMTCT HIV Data." *International Journal of Pharma and Bio Sciences, ISSN* (2016): 0975-6299.	**-**
40	**S. Santhoshkumar**. "Big Data: A dimensionality Reduction and Attribute Selection using PCA for Diabetic Data bases." *Research Journal Of Pharmaceutical Biological And Chemical Sciences* 6, no. 2 (2015): 1395-1401.	**0.9**
41	**S. Santhoshkumar**. "Potential Risk and Health Safety Analysis of Mobile Phones with Different Radiation Levels Using SAR and Connect Value Measures in India." *Research Journal Of Pharmaceutical Biological And Chemical Sciences* 6, no. 4 (2015): 576-583.	**0.9**
42	**S. Santhoshkumar** and Ramaraj, E. "A Hybrid Approach Using I 2 and MC4. 5 Algorithms for Mining Multidimensional Data Sets (HIIMC4. 5)." *International Journal of Computer Science & Applications (TIJCSA)* 2,	**0.9**

	no. 08 (2013).	
43	**S. Santhoshkumar** and T. Nadu. "Modified C4. 5 algorithm with improved information entropy and gain ratio." *Int. J. Eng. Res. Technol* 2, no. 9 (2013): 2768-2773.	**0.4**
44	**S. Santhoshkumar**, and M. Govindaraj. "A detailed study about foraging behavior of artificial bee colony (ABC) and its extensions." *International Journal of Engineering and Technology* 5 (2013): 992-997.	**0.564**
45	**S. Santhoshkumar**, and E. Ramaraj. "A Hybrid Model For Mining Multi Dimensional Data Sets." *Published in International Journal of Computer Applications Technology and Research* 2, no. 3 (2013): 214-217.	**1.1**
46	**S. Santhoshkumar**, and E. Ramaraj. "Analysis of Sequence Based Classifier Prediction for HIV Subtypes." *International Journal of Engineering and Technology* 2, no. 10 (2012).	**-**
47	**S. Santhoshkumar**, A. Sumathi, and E. Ramaraj. "Development of an efficient clustering technique for colon dataset." *International Journal of Engineering and Innovative Technology* 1, no. 5 (2012).	**-**
48	**Sumathi, A**., S. Santhoshkumar, and N. K. Sakthivel. "Development of an efficient data mining classifier with microarray data set for gene selection and classification." *J Theor Appl Inf Technol* 35, no. 2 (2012): 209-14.	**0.682**
49	**S. Santhoshkumar**. "A simple data mining model for heart disease prediction." *J. Glob. Pharma Technol* (2009).	**-**
50	Meganathan, S., N. Rajesh Kumar, S. Sheik Mohideen Shah, A. Sumathi, and **S. Santhoshkumar**. "Multidimensional Analytical View Of Election Data Warehouse Based On Ddc Poll Results Of Jammu And Kashmir." *Turkish Journal of Physiotherapy and Rehabilitation* 32: 3.	**0.2**
	Book Chapters	
51	**S. SanthoshKumar** and A.Sumathi, "Prediction Of Chronic Diseases Using Computation Techniques", Advances in Therapeutics and Diagnostics of Human Diseases, 2019 Nova Science Publishers, ISBN: 978-1-53615-382- 8. 2019	
52	**S. Santhoshkumar**, and A. Sumathi. "Process Analytics Model Approach in Healthcare: The Technological Perspective." In *Opportunities and Challenges in Digital Healthcare Innovation*, pp. 186-196. IGI Global, 2020.	
53	J.Arumai Ruban and **S.Santhoshkumar. "**Smart Drip Irrigation: Present and Future". *In Convergence of Business and Technology ",pp* 280-287.ISBN: 978- 93- 9569-55-0. Beyond Line Publishers, 2023	
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