

Department of Information Technology

Personal Details

Name:	Dr S Sivasubramanian
Designation:	Professor
Educational Qualification:	M.Tech.(CSE)., Ph.D.(CSE)
Experience:	24
Area of Specialization:	Mobile Computing, Data Warehousing, Artificial Intelligence and Data Science

Educational Details

S.No.	Degree	Branch/Specialization	Institute/University	Year
1	Ph.D.	Computer Science and Engineering	Bharath University	2011
2	M.Tech.	Computer Science and Engineering	Bharath Institute of Science and Technology	2007

Publication Details

International Journal

- 1, **Dr S.Sivasubramanian**, Dr.N Kalayasundram Next generation food vending Machine using Artificial Intelligence IEEE Explorer New Prince Shri Bhavani Engineering college of Technology
2. Aruna.A, P.G scholar, Vivekanandan.S.J, Assistant professor, **Dr.Sivasubramanian.S**, professor Journal of University of Shanghai for Science and Technology ISSN:1007-6735 [DOI: 10.51201/JUSST/21/07330](https://doi.org/10.51201/JUSST/21/07330) pages 1518-25 Scopus index UGC-CARE GROUP – II
3. S. Markkandan1,* , **Dr S. Sivasubramanian2** , Jaison Mulerikkal3 , Nazeer Shaik4 , Beulah Jackson5 and Lakshmi Naryanan6 Massive MIMO Codebook Design Using Gaussian Mixture Model Based Clustering Intelligent Automation & Soft Computing DOI:10.32604/iasc.2022.021779 IASC, 2022, vol.32, no.1 page no 361-375

4. Muneshwara M S, **Dr S.Sivasubramanian**, P.Felcy Judith, D.Vijayanandh, R.S.Sabeenian DEVELOP IOT TECHNOLOGY TO SCALE UP EXISTING TREATMENT OPTIONS TO PROVIDE A HEALTHCARE SOLUTION Bulletin of Environment, Pharmacology and Life Sciences [[BEPLS]] Website: www.beppls.com Online ISSN 2277-1808 Impact Factor: 0.971 [UIF, Germany] Global Impact Factor 0.876 [Australia] Scientific Journal Impact Factor: 2.59 [Canada] Scientific Indexing Services Impact Factor: 0.982 [USA] COSMOS Impact Factor : 4.032 NAAS Rating 4.95

5. G.Simi Margarat1 , **Dr S.Sivasubramanian** A Fast Basketball Tracking Method Using Kalman Estimates In High Definition Videos A Fast Basketball Tracking Method Using Kalman Estimates In High Definition Videos Volume XII, Issue IX, September/2020 ISSN NO:0886-9367 Page No:775

6. G.Simi Margarat1 , **Dr S.Sivasubramanian** 1. Basketball Tracking using Mean Shift Algorithm International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-3, September 2019.PP:339-344 SCOPUS & UGC 5.92(sjr) 2

7. G.Simi Margarat1 , **Dr S.Sivasubramanian**. Ball Detection Using Difference Mean- A Report Elsevier SSRN 2

8. G.Simi Margarat1 , **Dr S.Sivasubramanian** A Novel Methodology for Ball Detection and Trajectory Tracking Using Frame Difference and Mean Shift Algorithm Jour. of Adv. Research in Dynamical & Control Systems, Volume 11, Issue 7, September 2019. SCOPUS & UGC 0.114 2

9. G.Simi Margarat1 , **Dr S.Sivasubramanian** Moving Basket Ball Detection and Tracking System by different Approaches International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7 Issue-4S2, December 2018 SCOPUS & UGC 5.92 2

10. G.Simi Margarat1 , **Dr S.Sivasubramanian** Ball Detection Method for Trajectory Tracking using Difference Method Jour. of Adv. Research in Dynamical & Control Systems, Vol. 10, 13 -Special Issue,2018 SCOPUS & UGC 0.114 2

11. G.Simi Margarat1 , **Dr S.Sivasubramanian** A Relative Cram On Means And Median Algorithm For Object Tracking And Detection TAGA journal, Volume-14, February 2018 ANNEXURE 1

12. G.Simi Margarat1 , **Dr S.Sivasubramanian** A Survey on Video Surveillance Technique Of Moving Object Detection And Object Tracking Australian Journal of Basic And Applied Sciences ANNEXURE 2 1.25 2

13. G.Simi Margarat1 , **Dr S.Sivasubramanian** A Novel Approach To Preserve Of Multiple Stakeholders Involved In The Information Brokering Process”, International Journal of Research in Engineering & Advanced Technology GOOGLE SCHOLAR

14.Dr.S.Sivasubramanian 1 , K.SriPrasadh2 , S.Mageshkumar 3 OPASS BASED SECURITY FOR THE CLOUD MANAGED MEDICAL RECORDS International Journal of Pharmacy & Technolog IJPT|Dec-2016 | Vol. 8 | Issue No.4 | 23626-23634 Page 23629 ISSN: 0975-766X ISSN (Online) 2581-9429

15. Dr. S. Sivasubramanian1 , M. Siva Kumar2 , K.Venkatasai3 , M. Shiva Rami Reddy4 Detecting Fake

16. R. Geetha¹ & **Dr S. Sivasubramanian²** & M. Kaliappan³ & S. Vimal⁴ & Suresh Annamalai⁵ Cervical Cancer Identification with Synthetic Minority Oversampling Technique and PCA Analysis using Random Forest Classifier Journal of Medical Systems (2019) 43:286
<https://doi.org/10.1007/s10916-019-1402-6> springer

17. R. Geetha¹ Research Scholar, BHEAR & **Dr S. Sivasubramanian²** Mathematical model-based ontology for human papillomavirus in India page 222-39 Int. J. Biomedical Engineering and Technology, Vol. 31, No. 3, 2019 Scopus index

18. R. Geetha¹, Research Scholar, BHEAR **Dr.S.Sivasubramanian²**, Principal, “Ontological Representation of Cervical Cancer Identification With Smote and feature Reduction Technique Using Random Forest Classifier” Journal of Medical Science ISSN 1573-680X Journal no 10916 (Anna University Annexure 1 Journal)

19. R. Geetha¹ Research Scholar, BHEAR & **Dr S. Sivasubramanian²** Ontological Representation of Data Sampling in HIV1 Reverse Transcriptase International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 22 (2017) pp. 12060-12066 © Research India Publications.
<http://www.ripublication.com> Scopus UGC Approved Journal

20. R. Geetha¹ Research Scholar, BHEAR & **Dr S. Sivasubramanian²** Generation of Personalized Ontology based on treatment schemes utilizing semantic rules for HPV International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 22 (2017) pp.12096- 12101 © Research India Publications. <http://www.ripublication.com> Scopus UGC Approved Journal

21. Dr. Nattar kannan¹, **Dr. S. SivaSubramanian²**, Artificial Intelligence based attack mitigation Using Stochastic Game Theory Modelling with WQLA in Cognitive Radio Networks Journal of Web Engineering, Vol. 17, No.6 (2018) 3599 – 3618(Anna University Annexure 1 Journal)

22. Nattar Kannan¹ • **Dr S. Sivasubramanian²** • M. Kaliappan² Predictive big data analytic on demonetization data using support vector machine Received: 30 January 2018 / Revised: 26 February 2018 / Accepted: 6 March 2018_ Springer Science+Business Media, LLC, part of Springer Nature 2018 (Anna University Annexure 1 Journal)

23. C. Raghavendra¹ • **Dr.S Sivasubramanian²** • A. Kumaravel Improved image compression using effective lossless compression technique Received: 14 February 2018 / Revised: 7 March 2018 / Accepted: 12 March 2018_ Springer Science+Business Media, LLC, part of Springer Nature 2018 (Anna University Annexure 1 Journal)

24. C. Raghavendra . Kumaravel and **Dr S. Sivasubramanian²** Personal Authentication System by Iris Biometric Using Log Gabor Filter Technique International Journal of Control Theory and Applications ISSN : 0974-5572 International Science Press Volume 10 • Number 24 • 2017

25.1Mr C Raghavendra 2 Research Scholar **Dr S. Sivasubramanian** 3Dr A M Sameeullah HIGH PROTECTION HUMAN IRIS AUTHENTICATION IN NEW ATM TERMINAL DESIGN USING BIOMETRICS MECHANISM Journal of Global Research in Computer Science Volume 3, No. 11, November 2012 issn no:2229 371x

26.Mohammed Ibrahim Hussain¹, **Dr. S. Sivasubramanian**^{2,2}CSE Department, Mohamed Sathak A.J College of Engineering Embedded Prepaid Energy Meter System To Control Electricity International Journal of Recent Trends in Engineering & Research *Volume 04, Issue 04; April- 2018 [ISSN: 2455-1457]*

27.Dr S.Sivasubramanian opass based security for the cloud managed medical records *Available Online through Research Article www.ijptonline.com International Journal of Pharmacy & Technology* ISSN: 0975 - 766X 2016

28.Dr S.Sivasubramanian Identifying the Impact of Semantic Similarity in Semantic Social Media through Evolving Term for Effective Web Mining Indian journal of Science and Technology Volume 9, Issue 44, November 2016

29.Dr S.Sivasubramanian Data centric protection for secure cloud computing *Available Online through Research Article www.ijptonline.com International Journal of Pharmacy & Technology* ISSN: 0975-766X 2016

30.Dr S.Sivasubramanian Spider Monkey Optimization for Data Manipulation in Big Data" Volume 1 issue 4 ISIF Journal of Advances in Information Fusion October 2015

31.Dr S.Sivasubramanian C. Gunamalai A novel method of security and privacy for personal medical record and DICOM images in cloud computing ARPN Journal of Engineering and Applied Sciences VOL. 10, NO. 10, JUNE 2015 ISSN 1819-6608 June 2015

32.Mr C Raghavendra **Dr S.Sivasubramanian** "Exploring Multi scale Mathematical Morphology for Dark Image Enhancement" Volume: 1 Issue: 9 Pg no 708 – 712 Sep 2013 International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Feb. 2014

33.P. Karpagam Research Scholar **Dr S.Sivasubramanian** International Journal of Applied Engineering Research ISSN 0973-4562 Volume 11, Number 5 (2016) pp 3527-3535 © Research India Publications. <http://www.ripublication.com> Extending Disease Ontology with Newly Evaluated Terms to Improve Semantic Medical Information Retrieval International Journal of Applied Engineering Research ISSN 0973-4562 Volume 11, Number 5 (2016) pp 3527-3535

34.P. Karpagam **Dr S.Sivasubramanian** Research Scholar Identifying the Impact of Semantic Similarity in Semantic Social Media through Evolving Term for Effective Web Mining Indian Journal of Science and Technology, Vol 9(44), DOI: 10.17485/ijst/2016/v9i44/101133, November 2016 ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645

35.Dr S.Sivasubramanian Dr Raju “*Advanced Embedded of information by secure key exchange via Trusted Third Party Using Stenography*” Vol 2 Issue 1 Feb 2013 International Journal Of Latest Research Science And Technology ISSN NO:2278-5299

36.Dr A M Sameeull **Dr S.Sivasubramanian** Mr C Raghavendra “*High protection human IRIS Authentication in new ATM Terminal Design Using Biometrics Mechanism*” Vol 3, No. 11, Nov 2012 Journal of Global Research in Computer Science ISSN -2229-371X

37.Dr S.Sivasubramanian *An Approach towards Developing an Efficient Software Cost Estimation System Using Fuzzy and Analogy Methods* International Journal of Engineering Inventions Volume 1, Issue 10 (November2012) PP: 29-34 ISSN: 2278-7461, ISBN: 2319-6491,

38.Ms Sumendiswari **Dr S.Sivasubramanian** “*Inclusion of road network in the spatial database for feature searching using dynamic index*” International Journal of Computer science and engineering SurveyUK ISSN 0976-2760

39.Dr S.Sivasubramanian “*Implementing Remote Data Integrity Checking Protocol for Secured Storage Services with Data Dynamics and Public Verifiability In Cloud Computing*” IOSR Journal of Engineering Mar. 2012, Vol. 2(3) pp: 496-500 ISSN: 2250-3021

40.S.Pandiarajan **Mr S.Sivasubramanian**, “*Analysis of different stenographic algorithms for secured data hiding*” , IJCSNS International Journal of Computer Science and Network Security Seoul 156-743, Korea ISSN : 1738-7906

41.Mr S.Sivasubramanian Dr M.Umamaheswari “*Performance oriented query processing in geo based location search engines*”, International Journal of Computer Science and Information Security, USA, ISSN NO 1947- 5500,

42.Mr S.Sivasubramanian, Dr.M.Umamaheswari “*Performance analysis of an improved scheduling and load balancing algorithms for heterogeneous grid environment*”, Mr S.Sivasubramanian, Dr.M.Umamaheswari Technology World ,Malaysia , ISSN NO 2180- 1614 , page no: 135-138

43.Mr S.Sivasubramanian, , B.Harish Kumar “*online credit card trasation using finger print recognition*” International Journal of Engineering and Technology Vol.2 (5), 2010, 320-322 ISSN : 0975-4024

National Journal

1.Dr.M.Umamaheswari **Mr S.Sivasubramanian**, “*Clustering in high performance multifeature query processing*” Technology World ,Malaysia , ISSN NO 2180- 1614, page no: 123-128

International Conference

1.Mr S.Sivasubramanian “*Mobile General Packet Radio Services sensors array for Atmospheric Air Pollution Monitoring*” “INTER NATIONAL CONFERENCE ON ICICES’ 11, S.A.ENGINEERING COLLEGE, CHENNAI-77

2.Mr S.Sivasubramanian “*Privacy Awareness Monitoring for continuously moving object*” INTER

National Conference

1. **Mr S.Sivasubramanian** “*A Mobile Sensor Array for Atmospheric Pollution*” NCCAME'10 Loyola Institute of Technology Chennai-103
2. **Mr S.Sivasubramanian** “*Digital Image Processing & Pattern Recognitions*” NCRTAC -2010 Bharath University chennai-73
3. **Mr S.Sivasubramanian** “*Query Indexing On Spatial Data in peer to peer systems*” NCICN -2010 Eswari Engg college chennai-89
4. **Mr S.Sivasubramanian** “*Efficient oriented in CDMA is better than GSM in mobile Technology*” NCADKN -2010 Sree Sastha Engg college chennai-123
5. **Mr.S.Sivasubramanian** “*Braim Tumer Detection Based On Multi-parameter MRI Image Analysis*” NLCETCS FEB10SHRI Angalamman College of engineering technology Trichy 621105
6. **Mr S.Sivasubramanian** “*High performance Multi feature Query Processing Using Hyper Graph Partition Algorithm*” NCRTAC -2009 Bharath University chennai-73
7. **Mr S.Sivasubramanian** “*Mapping of Model Driven Database into SQL implementation*” NIS 2008 Noor Islam college of engineering kanyakumari
8. **Mr S.Sivasubramanian** “*Performance Analysis of an improved scheduled and load balancing algorithm for heterogeneous Grid Environment*” NCETAC-2008 Jayaram college of engineering technology

Professional Society Membership

1. Computer Society of India
2. International Association of Engineering

Programs Organised

FDP/STTP

1. FDP on “Operating Systems” Organized by Dept of CSE, on 01 - 05 Dec 2014

2. ICTACT Jointly Conducting Five days workshop on firewall

Workshop

3. 1. Acted as a Coordinator for workshop on IPSUBNETTING at Bharath University Chennai
4. Acted as a Coordinator for workshop on SCIENTIFIC RESEARCH PRACTICES at Bharath University
5. Toys Clinic Lab in R& D Department
6. Inauguration of DELL EMC Center of Academic Excellence - Data Science & Big Data Analytics, on 16 Feb 2017

Conference

7. 1. Convener for Faculty Development Program in Web Technology by Information technology on 16th Dec 2013 to 18 Dec 2013 at Dhanalakshmi college Engineering Chennai
8. Convener for Faculty Development Program in Advanced Data Structure and algorithm by Information technology on 19th Jul 2013 to 21 Jul 2013 at Dhanalakshmi college Engineering Chennai
9. Convener for National Conference on Resent Trends in Advanced Computing organized by Information technology on 7th sep 2012 at Dhanalakshmi college Engineering Chennai
10. Acted as a Coordinator for National conference on network and computer systems - NCNCS' 11", organized by CSE Department on 03 March 2011 at Bharath University Chennai
11. Acted as a Coordinator for National Conference Resent Trends in advanced Computing -2010 at Bharath University Chennai

Awards

1. EXCELLENT EDUCATIONAL SERVICE Friendship form leading Education of Indian Award Year 2019

2. EDUCATION LEADERSHIP AWARD 25th Business School Affaire & Dewang Mehta National Education Awards regional Round | 12th December 2017 | Taj Club House, Chennai

Other Details

Patents

1. Title of the invention: : "AN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING INTERFACES FOR DEVELOPING MICROSTRIP ANTENNA AND METHOD THEREOF" NO . of claims: 08 No. of pages: 02 pattern published 2909/2022

2. Title of the invention: IOT BASED WEARABLE WIRELESS VOLUME CONTROL DEVICE FOR ANY ELECTRONIC GADGETS PATENT APPLICATION PUBLICATION (21) Application No.202041049423 A (19) INDIA (22) Date of filing of Application :12/11/2020 (43) Publication Date : 20/11/2020 No. of Pages : 14 No. of Claims :5 The Patent Office Journal No. 47/2020 Dated 20/11/2020 59016

3. Title of the invention: IOT BASED CROP PROTECTION SYSTEM AGAINST ATTACKING FROM WILD ANIMALS PATENT APPLICATION PUBLICATION (21) Application No.202141004345 A (19) INDIA (22) Date of filing of Application :01/02/2021 (43) Publication Date : 05/02/2021 No. of Pages : 10 No. of Claims : 2

4. Title of the invention A NIGHT PATROL ROBOT BASED ON IOT TO KEEP THE SCREEN SAFER AND CUT DOWN ON CRIME GOVERNMENT OF INDIA PATENT NO. 41049860 ENGINEERING AND TECHNOLOGY Completed Filed 2021-10-30 Published 2022-01-19

5. Title of the invention AN EFFICIENT 3D TRAJECTORY BASED MOTION CAPTURE IN A VIDEO Filed 2021-01-06

Books and Chapters

Dr S.Sivasubramanian Artificial Intelligence and Data Science Scientific International Publication House ISBN NO:978-93-5625-172-4 First Edition Scientific International Publishers (sipinternationalpublishers.com)

Projects Fund Received

Completed

Project Name : Prototype Development of Non Invasive Glucometer

Total Project Value : Rs.2 Lakhs

Funding Agency Name : Department of Scientific and Industrial Research.

Innovator Name : A.Karthick

Expert Member : Dr Nalani & Dr.Siva subramaniam (Dotnet software/ Embedded Design)

Abstract :

NI- Flip Glucometer is mainly designed for the diabetic patients to make use of it in their domestics. The designed device is portable and used at home for monitoring diabetic patients in a painless manner. NI flip glucometer mainly works by the Microwave technology, the device comprises Microwave spiral resonant sensor that uses bio electromagnetic resonance to measure the bio materials (blood) inside of a closed volume without the need to come into contact with the material. It is a low power device which can readily use any available battery sources. As an individual applies more pressure to the sensor sensing portion with the thumb, the area contact between the thumb and the sensor increases and the amount of blood in the thumb over the sensing area spreads out which can be detected using frequency shift. The sensor uses electromagnetic waves to measure blood glucose levels in the body as energy goes from the sensor through the skin and back to the sensor. The microwave frequency range is wide enough to isolate the effect of sugar in the blood and minimize the characteristics of other tissue, such as body fat and bone, which could alter accurate readings. The readings can be exhibited in the display screen along with an LED scale in different scale by integrating the sensor using the PIC Microcontroller present in the NI Flip glucometer.

Journal Reviewer

IEEE Explorer

International journal Technology World, Malaysia , ISSN NO 2180- 1614

Resource Person

Research and Project Guidance:

- ☞ Guided **UG** Projects - 90
- ☞ Guided **PG** Projects - 30
- ☞ **Ph.D** (Computer Science & Engineering) - 07
- ☞ **Ph.D** (Computer Science & Engineering) **completed** - 06
- ☞ **Doctoral Committee Member**
 - o Anna University
 - o Bharath University
 - o Hindustan University
 - o St Peter University

- Vels University

- Amit University

Project Co ordinate with various AICTE Funded project like Modrob, Seminar Grants, Faculty Development Cell and Government agencies to get Research Funds

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Scopus link [Sivasubramanian, S. - Author details - Scopus Preview](#)

Google scholar link [sankaranarayanan sivasubramanian - Google Scholar](#)