

Dr. K.Raja, M.E., Ph.D.,MBA.,M.Phil.,Ph.D.,MLIS.,

Professor & Head,

Department of CSE, CET, SRMIST,

Ramapuram Campus, Chennai.

Mail id: hod.cse.rmp@srmist.edu.in



Dr. K. Raja is a distinguished academician currently working as Professor and Head of the Department of Computer Science and Engineering at SRM Institute of Science and Technology, Ramapuram Campus, Chennai. He holds a Master's degree (M.E) from Madras University in 2001 and a Doctorate (Ph.D.) in Knowledge-Based Systems from Sathyabama University, Chennai in 2006. His passion for knowledge and expertise led him to achieve a second Ph.D. degree in Management from Periyar University in 2020. He has 28 years' experience in various domains including academia, administration, research, and teaching in many reputed institutions like Madras Institute of Technology, Anna University. His commitment to education and professional development is evident through his life membership in esteemed organizations such as IEI, CSI, ISTE, and IACSIT. His contributions to research are noteworthy, with an impressive publication record of 75 papers in reputed international journals, national journals. Moreover, he has presented 54 papers at International conferences across various countries, including Singapore, Malaysia, Sri Lanka, Doha Qatar, and India. He is an accomplished author who has written 5 books on diverse subjects. As a highly regarded expert in his field, he actively participates as a reviewer for several international and national journals. His dedication to nurturing young minds is evident through his supervision of 7 successful Ph.D. candidates, while he continues to mentor more than 4 ongoing Ph.D. research scholars. His areas of expertise encompass a wide range of subjects, including Knowledge-Based Systems, Knowledge Management, Technology Management, Computer Networks, Network Security, Data Structures, Algorithms, HR, and Quality Systems. Throughout his career, he has been recognized for his exceptional contributions, earning accolades such as the Best Teacher Award, Academic Researcher Award, and Head of the Department Award. Professor K.Raja embarked on a significant academic endeavor with a foreign visit to Nepal, Thailand, Srilanka that asterisked a crucial milestone in his pursuit of international academic collaborations and enriching research experiences.

Area of Research:

Knowledge-Based Systems, Knowledge Management, Technology Management, Computer Networks, Network Security, Data Structures, Algorithms, HR, and Quality Systems.

RESEARCH SUPERVISOR

- Guiding: 5 Research scholars in SRMIST.
- Guided : Research Scholars Awarded the Ph.D Degree: 7 (5 – SathyaBama Institute of Science & Technology,, 1- Bharathiyar University, and 1- Anna University)

Selected Publications:

1. K.Raja and S.K. Srivatsa, “Constructing a Knowledge-Based Group Decision Support System with Enhanced Cognitive Analysis”, Information Technology Journal 5(1): pp 40-44, ISSN 1812-5638, 2006, **(SJR:0.1, Scimago ‘H’ Index: 25) - Scopus Indexed / Annexure-II.**
2. K.Raja and S.K. Srivatsa, “A Distributed Data management in Knowledge-Based Group Decision Support System”, Journal of Applied Sciences 6(1): pp 27-30, ISSN 1812-5654, 2006, **(SJR:0.11, Scimago ‘H’ Index: 29) - Scopus Indexed/ Annexure-II.**
3. K.Raja, Raghavendran N, Rashmi Magdalene J, and Sowmya V, “Rule Generation from Statistical Data for Flexible Classification and Prediction” – International Journal of Image Processing and Networking Techniques, Volume 2, No. 1, pp 30-37, ISSN 0973-7650, 2009.
4. J.Anitha, C. Selvaraju, and K.Raja, “Image Encryption Using Multiple One-Dimensional Chaotic Maps” - International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences(IJ-ETA-ETS), Volume 2, Issues 2, pp 414-420, ISSN:0974-3588, 2009, GIF: 2.6342 (2016) – **SIF: 2.745.**
5. J.Anitha, K.Raja, and C. Selvaraju “Autonomic Computing”, International Journal of Research and Reviews in Software Engineering, Volume 1, Issues 2, pp 9-12, ISSN:20466188, March 2011.
6. A.Anandaraj, P.Kalaivani, and K.Raja, “Ontology Construction Approach for the domain of Poultry Science using Protégé to Weave the Semantic Web”- International Journal of Research and Reviews in Information Sciences, Volume 1, No.2, June 2011.
7. A.Anandaraj, G.Dheepak, and K.Raja, “Study of Ontology in Software Modelling Process and Life Cycle” - International Journal of Research and Reviews in Software Engineering, Volume 1, Issues 2, pp 13-17, ISSN:20466188, March 2011.

8. A. Gomathi, K.Raja, "Combining Various Search Engine Results Using Segmentation Fusion" – Journal of Computer Science and Applications, RIP- Publication, Volume 2, Issues 1, pp 45-56, ISSN: 2231-1270, **Scopus Indexed**.
9. A.Gomathi, K.Raja " Merging Data from Different Search Engine using Slide Fusion for Information Retrieval" – International Journal of Internet and Computer Security, Volume 2, Number 1 (2011), pp 47-54, ISSN 0974-2247.
10. Gomathi. A & Raja. K 2017, 'Catching improved information through multiple search engines with Particle Swarm Optimization and K-means* algorithm', Journal of Medical Imaging and Health Informatics (**Annexure-I** Journal and Impact factor: 0.877), Accepted on 24.02.2017, **Scopus Indexed**.
11. Gomathi. A, Raja. K, Selvarajan. S and Akilandeswari. J, published the paper with the title "Extracting relevant information from the search systems uses Data Fusion and Particle Swarm Optimization Techniques", International Journal of Applied Engineering Research (**Annexure-II** and Impact factor: 0.14), ISSN 0973-4562 Vol. 10 No.56, 2015, **UGC listed**.
12. K.Sasireka, G.Kiruthiga, and K.Raja, "A Survey about Various Data Structures for Mining Frequent Patterns from Large Databases", International Journal of Research and Reviews in Information Sciences, Volume 1, No.3, September 2011, ISSN 2046-6439.
13. C. Umapathi, M.Aramudhan, and K.Raja, "Enhancing Web Services Using Predictive Caching" – International Journal of Research and Reviews in Information Sciences, Volume 1, No.3, September 2011, pp 81-84, ISSN 2046-6439.
14. R.Gopinath, K.Raja, "Enterprise Mold Distinctiveness via Cloud Through Software-as-a-Service" – International Journal of Computer Science, Volume 8, Issue 4, pp 524-530, ISSN:1694-0814(Online) – **Google Scholar Indexed**
15. V.R. Kanagavalli, K. Raja, "Extracting Multi Granular Implicit Spatial References in Event Descriptions", International Journal of Information Sciences and Application (IJISA), ISSN 0974-2255 Vol.5, No.1 (2013), pp. 21-32.
16. V.R. Kanagavalli, K. Raja, "Handling Uncertain and Ambiguous Spatial Expressions in Text Using Fuzzy Logic", Indian Journal of Computer Science and Engineering, ISSN: 0976-5166, Vol 4 No. 4 pp 293 to 296 – **UGC Listed Journal Serial No. 20743**
17. V.R. Kanagavalli, K. Raja, "Extracting and Modeling Multi-Granular Uncertain Spatial Expressions in Text", Journal of Computer Applications (JCA), ISSN: 0974-1925, Volume VI, Issue 2, 2013.
18. V.R. Kanagavalli, K. Raja, "A Fuzzy Logic-based Method for Efficient Retrieval of Vague and Uncertain Spatial Expressions in Text Exploiting the Granulation of the Spatial Event Queries", International Journal of Computer Applications (IJCA), ISSN: 0975 – 8887, pp 21-25, (**H5 Index: 37**) - **Google Scholar Indexed**.

19. V. R. Kanagavalli, K. Raja, "A Fuzzy Approach to handle text documents with uncertain Spatial References" in International Journal of Applied Engineering Research ISSN 0973-4562 Volume 9, Number 24 (2014), pp 23853-23866 - **(SJR: 0.15, Scimago 'H' Index: 13) - Scopus Indexed / Annexure-II.**
20. V. R. Kanagavalli, K. Raja, "Extracting and Modeling Ambiguous and Uncertain Spatial Expressions in Text" in Pensee Journal Vol.75 Issue.11 Nov 2013, pp 19-28. ISSN: 0031-4773, **(SJR: 0.1, Scimago 'H' Index: 3) - Scopus Indexed / Annexure-II.**
21. Srinivasan.S and K.Raja, "Futuristic Assimilation of Cloud Computing platforms and its services" Published in IEEE – Xplore – indexed 2013, ISBN: 978-1-4673-4633-7, INSPEC Accession Number: 13430805, pp.178-180, 2013, <http://ieeexplore.ieee.org/document/6494467/>, DOI: 10.1109/ICETEEEM.2012.6494467, **GOOGLE Scholar Indexed.**
22. S.Srinivasan, K.Raja, "Security challenges in cloud computing", International Journal of Emerging Technology and Advanced Engineering (IJETA), ISSN 2250-2459, Volume 4, Special Issue 2, pp.01-06, <http://www.ijetae.com/NCCC14.html>, April 2014. (ISRA-IF: 4.027) - **UGC Listed Journal Serial No. 20743**
23. S.Srinivasan, K.Raja, "Dynamic Group Auditing control mechanism for cloud computing using k-means inter-batch cluster method" published in International Journal of Applied Engineering Research (IJAER), Vol.9, Iss.22 (2014) (pp.16821-16835), Print ISSN 0973-4562 Online ISSN 1087-1090, **(SJR: 0.15, Scimago 'H' Index: 13) - Scopus Indexed/ Annexure-II.**
24. S.Srinivasan, K.Raja, "Secure Auditing method for cloud computing", published in CiiT International Journal of Networking and Communication Engineering, Print: ISSN 0974 – 9713 & Online: ISSN 0974 – 9616, Vol.6 No.7, September 2014 pp.274-278,http://www.ciitresearch.org/dl/index.php/nce/article/view/NCE_082014003, **GOOGLE Scholar Indexed.**
25. S.Srinivasan, K.Raja, "Integrated Security in Cloud Computing Environment", Elysium Journal of engineering research and management, Special Issue - 1, Vol. 1 No.1, pp.01-05, September 2014 Issue, 00.01-06, P-ISSN:2347-4408, E-ISSN:-2347-4734, http://www.ejerm.com/vol1_spl_sep2014/img/, **GOOGLE Scholar Indexed.**
26. S.Srinivasan, K.Raja, Ramya.D, "An Analysis of third party auditing techniques in cloud computing" published in IJARCCCE - International Journal of Advanced Research in Computer and Communication Engineering, Impact Factor 1.770, Vol. 3, Issue 11, November 2014, **GOOGLE Scholar Indexed.**
27. Ramkumar Jayaraman, Gunasekaran Raja, Rajakumar Arul, Raja kothandaraman, and Sheeba Sinto, "A Survey on Scheduling Mechanisms in Broadband Wireless Networks", Lecture Notes on Information Theory, Vol. 2, No. 3, pp.214-219, Sep.2014, URL: <http://www.lnit.org/uploadfile/2014/1126/20141126035059906.pdf>

28. S.Srinivasan, K.Raja, "An Innovative Adaptive Method for Reducing Vulnerability and Flaws in Cloud computing Environment" International Journal of Applied Engineering Research, Vol.10, No.17, 2015 Special issue June 2015, pp.13718-13725, 2015, **(SJR: 0.15, Scimago 'H' Index: 13) - Scopus Indexed / Annexure-II.**
29. S. Srinivasan and K. Raja, "Ensuring Cloud Security and Privacy Through Enhanced Merkle Hash Tree Method Using Bat Mechanism", Australian Journal of Basic and Applied Sciences, EISSN: 2309-8414, Vol. 10, Iss.1, pp.676-684, 2016, http://ajbasweb.com/old/ajbas_January_2016.html **(SJR: Scimago 'H' Index: 22) - Scopus Indexed / Annexure-II.**
30. S.Srinivasan, K.Raja, "Preventing Cloud Attacks using Bio-Metric Authentication in Cloud Computing", Indian Journal of Science and Technology, Vol 9(23), pp.1-9, DOI: 10.17485/ijst/2016/v9i23/88322, <http://www.indjst.org/index.php/indjst/article/view/88322/71195>, June 2016, **Scopus, Web of Science Indexed.**
31. S.Srinivasan, K.Raja, "Trusted Integrated Security Mechanism for Reducing Vulnerability Using Authentic Auditing methods in Cloud Computing" published in International Journal of Pure and Applied Mathematics, Vol.119, No.12, 2018, pp.14881-14899, **Scopus Indexed.**
32. A. Meena, K. Raja, "Knowledge-based PET-SFCM image segmentation for neurodegenerative disorders", Pensee Journal, Pensee, Vol.75 PP.114-121, Issue.10, Oct.2013, **(SJR: 0.1, Scimago 'H' Index: 3) - Scopus Indexed / Annexure-II.**
33. A. Meena, K. Raja, "Cluster-based performance analysis of PET scan image for Alzheimer's disease", Advances in Computational Sciences and Technology (ACST), Research India Publications, Vol. 6, Iss.1, PP. 81-87, Jan-Jun 2013.
34. A. Meena, K. Raja, "A study on functional brain metabolism using PET scan image datasets – An analysis", Journal of Computer Applications, K.S.R.College of Engineering, Vol.6, Iss.2, PP. 28 – 30, Apr-Jun.2013.
35. A. Meena, K. Raja, "Spatial Fuzzy C-Means PET Image Segmentation of Neurodegenerative Disorder", Indian Journal of Computer Science and Engineering, Vol. 4, PP. 53-58, Issue.1, Feb-Mar 2013 **(ISRA-IF: 4.027) - UGC Listed Journal Serial No. 20743**
36. S.Ramya, K. Raja, "An Analysis of Third Party Auditing Techniques in Cloud Computing", International Journal of Advanced Research in Computer and Communication Engineering, Volume 3, Issue 11, November 2014. ISSN: 2278 – 1021, ISSN (Print): 2319 – 5940, **(IF: 5.947) - Google Scholar Indexed**
37. Auxilia.M, K.Raja, "Migrating Bank Data to Cloud: Threats and Mitigation", International Journal of Applied Engineering Research, ISSN: 09734562, Vol. 9, No.24 (2014), pp 28879-28902 Research India Publications, India - **(SJR: 0.15, Scimago 'H' Index: 13) - Scopus Indexed / Annexure-II.**
38. Auxilia.M, K.Raja, "Semantic Context-Aware Authorization for Securing Data in Cloud", Advances in Natural and Applied Sciences, American-Eurasian Network for

Scientific Information, Jordan, ISSN: 19950772, 9(6) Special 2015, Pages: 683-688, **(SJIF= 2.698, Scimago 'H' Index: 16) - Scopus Indexed / Annexure-II.**

39. K.Kannan, and K.Raja, "Secure Decision-Making Approach to Improve Knowledge Management Based on Online Samples", International Journal of Intelligent Engineering and Systems, Intelligent Networks and Systems Society, Japan, ISSN: 2185-3118, Feb-2018, Vol.11, Iss.1, pp. 50-61, **(SJR: 0.11, Scimago 'H' Index: 5), Scopus Indexed / Annexure-II.**
40. K. Kannan, K.Raja, and M.Aramudhan, "Multi-Agent Framework Based on Semantic Approach for B2C Activity", International Journal of Engineering and Technology, Engg Journals Publications, EISSN 0975-4024, Oct-Nov 2017, Vol.9, Iss.5, pp.3861-3868, **(SJR: 0.18, Scimago 'H' Index: 13), Scopus Indexed / Annexure-II.**
41. K.Kannan, K.Raja, "GAFY: A Novel Approach for Increased Confidence in Knowledge-Based Decision Support System in Online Samples", Journal of Computational and Theoretical Nanoscience, American Scientific Publishers, California, USA, EISSN: 1546-1963, Aug-2017, Vol.14, No.8, pp.3887-3892, **(SCI-IF: 1.666, SJR: 0.23, Scimago 'H' Index: 38) - SCIE / Web of Science Indexed / Annexure-I.**
42. K.Kannan, K.Raja, "FUSE Mechanism for Data's Aggregation using Fuzzy Logic Technique for Online mobile users", International Journal of Advanced Computational Engineering and Networking, Institute of Technology and Research/IRAJ-Institute of Research and Journals, EISSN: 2321-2063, Jul-2016, Vol.4, Iss.7, pp.54-57, **(SJIF: 2.849, IF: 3.2) - SJIF Indexed.**
43. K.Kannan, K.Raja, "Decision Making Process For B2C Model Using Behaviour Analysis With Big Data Technologies", Indian Journal of Science and Technology, The Indian Society of Education and Environment, ISSN: 09745645, Jun-2016, Vol.9, Iss.24, pp.1-6, **(SJR: 0.25, Scimago 'H' Index: 25, IF: 1.63) - Scopus Indexed / Annexure-II.**
44. K.Kannan, K.Raja, "DPAT based knowledge retrieval for online buyers using Decision Making Approach", International Journal of Applied Engineering Research, Research India Publications, ISSN:0973-4562, April-2016, Vol.11, No.7, pp.5046-5051, **(SJR: 0.15, Scimago 'H' Index: 13) - Scopus Indexed.**
45. K.Kannan, K.Raja, "Knowledge-Based Efficient E-Business Services With Multi-Agent-Based Framework Using Semantic Approach For B2C Model", International Journal of Advanced Computational Engineering and Networking, Institute of Technology and Research/IRAJ-Institute of Research and Journals, E-ISSN: 2321-2063, Sep-2015, Vol.3, Iss.9, pp7-10, **(SJIF: 2.849, IF: 3.2) - SJIF Indexed.**
46. M. Auxilia, K. Raja, K.Kannan, "Cloud-Based Access Control Framework for Effective Role Provisioning in Business Application", International Journal of System Dynamics Application, IGI Global, USA, EISSN: 2160-9799, Vol.9, Iss.1, pp. 63-80,

Jan-2020, SJR:0.73, **Web of Science Emerging Sources Citation Index (ESCI) – Unpaid Journal.**

47. M. Auxilia, K. Raja, K. Kannan, “Providing Ontology-Based Access Control for Cloud Data by Exploiting Subsumption Property among Domains of Access Control”, *International Journal of Intelligent Engineering and Systems, Intelligent Networks and Systems Society, Japan*, EISSN: 2185-3118, Vol.12, Iss.3, pp. 280-291, June-2019, SJR:0.19, Scimago ‘H’ Index: 9, **Scopus Indexed.**
48. M. Auxilia, K. Raja, “Ontology Centric Access Control Mechanism for Enabling Data Protection in Cloud”, *Indian Journal of Science and Technology, ISEE and Informatics, Bangalore, India*, EISSN: 0974-5645, Vol.9, Iss.23, pp. 1-7, June 2016, SJR:0.14, Scimago ‘H’ Index: 33, **Scopus Indexed.**
49. Ramanayagam. S, Raja. K, Kannan. K, “Boolean Based Mining Algorithm for Pattern Discovery Based on Human Interactions”, *International Journal of Innovative Technology and Exploring Engineering, Blue Eyes Intelligence Engineering & Sciences Publication (BEIESP) Bhopal, India*, EISSN 2278-3075, Vol.8, No.9, pp.2827-2831, July-2019, IF:5.54, **Scopus Indexed.**
50. G. Deena and K. Raja, "The Impact of Learning Style to Enrich the Performance of Learner in E-Learning System", *Journal of Web Engineering*, Vol.17, No.6, pp.3407-3421, 2018, **Web of Science Indexed.**
51. G. Deena and K. Raja, “Sentence Selection Using Latent Semantic Analysis for Automatic Question Generation in E-Learning System”, *International Journal of Innovative Technology and Exploring Engineering, Blue Eyes Intelligence Engineering & Sciences Publication (BEIESP) Bhopal, India*, EISSN 2278-3075, Vol.8, No.9, pp.86-91, July-2019, IF:5.54, **Scopus Indexed**
52. K. Raja, V. R. Kanagavalli, P. K. NizarBanu, K. Kannan, “An Efficient Methodology for Handling of Resolving Uncertain Spatial References in Text Documents”, *International Journal of Service Science, Management, Engineering, and Technology, Special Issue on Emerging Technologies in Computer Science, IGI-Global, USA*, EISSN: 1947-9603, Vol.11, Iss.3, Article.1, pp., 2020, IF: 0.06, DOI: 10.4018/IJSSMET.2020070101, **SCOPUS Indexed - Unpaid Journal.**
53. Deena G, Raja K, NizarBanu. P. K, Kannan K, “Developing the Assessment Questions Automatically to Determine the Cognitive Level of the E-Learner Using NLP Techniques”, *International Journal of Service Science, Management, Engineering, and Technology, Special Issue on Emerging Technologies in Computer Science, IGI-Global, USA*, EISSN: 1947-9603, Vol.11, Iss.2, Article.6, pp.95-110, April-2020, IF: 0.06, DOI: 10.4018/IJSSMET.2020040106, **Scopus Indexed - Unpaid Journal.**
54. G Deena, K Raja, and K Kannan, “An Automatic Question Generation System using Rule-Based Approach in Bloom’s Taxonomy”, *Recent Advances in Computer Science and Communications, Bentham Science Publisher*, Vol.14, Iss.5, Mar 2021,

<https://doi.org/10.2174/2213275912666191113143335>, **Scopus Indexed - Unpaid Journal.**

55. K. Raja, Srinidhi Sathyamurthy, Tanisha Garg, Pallavi Gupta, “A Novel Prediction Analytics Science of Kidney Disease based on Neural Network”, International Journal of Annals of the Romanian Society for Cell Biology, ISSN: 1583-6258, Vol.25 Iss.5, pp.5400-5420, May 2021, IF:0.9, DOI: <https://www.annalsofrscb.ro/index.php/journal/article/view/6428/4869>, **Scopus Indexed Journal.**
56. K. Raja, Revanth Kumar Lokku, Sahaj Vinayak, Bhuvaneshwari B, “Network Intrusion Detection System Using Artificial Recurrent Neural Networks - Long Short-term Memory”, Paideuma Journal Of Research, ISSN: 0090-5674, Vol.14 Iss.5, pp. 116-125, May 2021, IF:1.07, DOI: <https://paideumajournal.com/gallery/13-may2021.pdf>, **Web of Science Indexed Journal.**
57. Abhishek Kumar Singh, Deeraj Pannam, Chirag Pattanaik, Raja K, “Medical Supply Manufacturing using Analysis Report from Cloud Computing”, Paideuma Journal Of Research, ISSN: 0090-5674, Vol.14 Iss.5, pp.339-350, May 2021, IF:1.07, DOI: <http://paideumajournal.com/gallery/42-may2021.pdf>, **Web of Science Indexed Journal.**
58. K. Raja, Aditya Saini, Shadab Ahmed and Sagar M, “Image Classification and Super Sampling using Generative Adversarial Network”, Indian Journal of Natural Sciences, ISSN: 0976 – 0997, Vol.12, Iss.66, pp.30761-30770, IF:1.7, **Web of Science Indexed Journal.**
59. K. Raja, J. S. Duela, K. Duraipandian, S. Rajan and M. Sathiyarayanan(2021), "VIRAL: The Effectiveness of Virtual Lab Teaching in Developing Higher Order Thinking Skills," 2021 1st Conference on Online Teaching for Mobile Education (OT4ME), pp. 116-117, doi: 10.1109/OT4ME53559.2021.9638861.**Scopus Indexed.**
60. Umamageswari, A., Deepa, S.,and Raja, K. (2022),” An enhanced approach for leaf disease identification and classification using deep learning techniques”, Measurement: Sensors, Vol 24,No.100568, pp 1-6,**Scopus Indexed Journal.**
61. Umamageshwari Arasakumaran, Shiny Duela Johnson, Dioline Sara, and Raja Kothandaraman(2022),“An Enhanced Identification and classification Algorithm for Plant Leaf Diseases based on Deep Learning” , International Information and Engineering Technology Association, Traitement du Signal,ISSN:07650019, Pages:1013-1018, **SCI Indexed Journal.**
62. Dr.K.Raja et.al, “Variable Aware Analytic Driven Online Shoppers Purchasing Intention using ML Algorithms”, International Journal for Research in Applied Science & Engineering Technology, Volume 11 Issue V, May 2023, DOI:[10.22214/ijraset.2023.52878](https://doi.org/10.22214/ijraset.2023.52878).

PATTERN/ COPYRIGHT

- **Title of the Invention:** “AI-based Face Helmet”, UK Design Patent, Aug 2023, Patent Number - 6303639.
- **Title of the Invention:** “AI-based Face Mask”. UK Design Patent, Aug 2023, Patent Number - 6303638.
- **Title of the Invention:** “Smart Spectacle” Application Number 369330 001 Cbr Number 204915, Cbr Date 17/08/2022 .
- **Title of the Invention:** “CRF BASED INTRUSION DETECTION SYSTEM USING GENETIC SEARCH FEATURE”, June 2022, Patent Number - 202241028235 A.
- **Title of the Invention:** “IMPROVED INTRUSION DETECTION SYSTEM USING GENETIC-FUZZY SEARCH FEATURE”, June 2022, Patent Number -202241041384 A
- **Title of the Invention:** Method for Automatic Health Prediction Using Machine Learning, Date of filing of Application: 04/03/2020, Publication Date: 13/03/2020, Publication Number:11/2020, File Number: 202041009201.
- Diary Number -14287/2019-CO/L, Literary/Dramatic, CS8481 - Database Management Systems Laboratory, Registered
- Diary Number: 11554/2018-CO/L, Literary/Dramatic, Faculty Advisory Programme, Registered
- Diary Number: 18036/2017-CO/L Literary/Dramatic, Student Profile, Registered

BOOK CHAPTERS PUBLISHED

1. Dr.K.Raja et.al, “Decentralized Payment Architecture for E-Commerce and Utility Transactions with Government Verified Identities”, Soft Computing and Signal Processing, pp.9-20, June- 2023, DOI:10.1007/978-981-19-8669-7_2
2. Dr.K.Raja et.al, “Efficacy of V-Lab for Engineering Students during COVID-19”,Redefining Virtual Teaching Learning Pedagogy, pp.75-95, Feb-2023, DOI:10.1002/9781119867647.ch5.
3. Dr.K.Raja et.al, “Decentralized Payment Architecture for E-Commerce and Utility Transactions with Government Verified Identities”, Smart Innovation, Systems and Technologies, pp. 9–20, 2023.
4. Rajakumar Arul, Raja Kothandaraman, Kannan Kaliyan, Nizar Banu P K. “BlockChain for Industry 4.0- An Assessment of BlockChain Adoptability”, Book Series, Big Data for Industry 4.0: Challenges and Application by CRC Press, A Taylor & Francis, UK, Jan 2021.
5. Srinivasan Selvaraj, Raja Kothandaraman, Kannan Kaliyan, Pratheepan Thuraiyappah, “Digital Information System for Attack Reduction in Industry 4.0”, Book Series, Big Data for Industry 4.0: Challenges and Application by CRC Press, A Taylor & Francis, UK, Jan 2021.

6. Srinivasan. S, Raja K, "An Advanced Dynamic Authentic Security Method for Cloud Computing", In: Bokhari M., Agrawal N., Saini D. (eds) Cyber Security - Advances in Intelligent Systems and Computing(AISC) Book Series, Volume 729, (pp.143-152), Springer, Singapore, June 2018, Proc. of 50th Golden Jubilee Convention of CSI2015 – Digital India, SCOPUS Indexed, June 2018.

TECHNICAL BOOKS PUBLISHED

1. Text Book on **Total Quality Management** – Co-authored with Dr. K. Maran, Eswar Press, ISBN 81-7874-029-X, Chennai, 2005.
2. Text Book on **Health Care Information Systems** – Anna University - Chennai, Distance Education – MBA Programme, 2006.
3. Text Book on **E-learning Technologies** - Anna University - Chennai, Distance Education – MBA Programme, 2007.
4. Text Book on **Object-Oriented Programming** – Co-authored with Mr. C. Rajesh Kannan, Sri Maruthi Publishers, Chennai, May 2012, May 2013, ISBN:978-93-80757-89-6
5. Text Book on **Problem Solving and Python Programming** – Co-authored with Ms. M. Pavethra, Unique Media Integrators, Chennai, August 2017 ISBN: 978-93-86755-27-8, Anna University B.E/B.Tech 2017 Regulations First-Year Text Book.
6. Text Book on **Programming in C** – Co-authored with Dr. P. K. Nizar Banu, Ms. M. Pavethra, Unique Media Integrators, Chennai, January 2018 ISBN: 978-93-86755-45-2, Anna University B.E (CSE)/B.Tech(IT) 2017 Regulation First Year Second Semester Text Book.
7. Text Book on **Fundamentals of Data Structure in C** – Co-authored with Dr. P. K. Nizar Banu, Ms. M. Pavethra, Unique Media Integrators, Chennai, April 2018 ISBN: 978-93-87234-21-5, Anna University B.E (ECE) II year/III Sem, 2017 Regulation.
8. Text Book on **Data Structures** – Co-authored with Dr. P. K. Nizar Banu, Ms. M. Pavethra, Unique Media Integrators, Chennai, April 2018 ISBN: 978-93-87234-22-2, Anna University B. E (CSE)&B.Tech (IT), II year/III Sem, 2017 Regulation.
9. **CBSC Computer Science Books for Standard V to IX**, - Eversmile Learning Pvt Ltd., Chennai.
10. Text Book on **Software Testing** – PHI (in progress).

Professional Bodies:

1. **MISTE** - Life Member of Indian Society for Technical Education
2. **FIE** - Fellow Member of Institute of Engineers, India
3. **CSI** - Life Member in Computer Society of India
4. **IETE** - Life Member of the Institution of Electronics and Telecommunication Engineers
5. **IACSIT** - Senior Member of International Association of Computer Science and Information Technology, Singapore.
6. **IAENG** - Member of International Association of Engineers, Hong Kong.
7. **IAENGAI** - Member of IAENG Society for Artificial Intelligence.
8. **IAENGCS** - Member of IAENG Society of Computer Science.
9. **IAENGDM** - Member of IAENG Society of Data Mining.
10. **IAENGISE** - Member of IAENG Society of Information System Engineering.

11. **IAENGSC** - Member of IAENG Society for Scientific Computing.
12. **IAENGSE** - Member of IAENG Society of Software Engineering.
13. **IAENGWN** - Member of IAENG Society of Wireless Networks.

OTHER ACADEMIC ACTIVITIES

- **Board of Studies** for 411 MCA for Affiliated Colleges of Annamalai University, 2022.

AWARDS / ACHIEVEMENTS

- **Best Teacher Award** (2004-2005, 2005-2006) – Sri Sai Ram Engineering College, Chennai.
- Biographic Information was included in the special 25th Silver Anniversary Edition of “**Who’s Who in the World**”, published in November 2007.
- Biographic Information was included in “**2000 Outstanding Intellectuals of the 21st Century**”, published by International Biographical Centre, Cambridge, England, 2008.
- **Editor-in-Chief**, International Journal of Communication, Computation and Innovation, ISSN NO 2229-6808.
- **Editor-in-Chief**, International Journal of Information Technology and Management Sciences, ISSN NO 2231-6752.
- **Best Research Paper Award** on the Title “Progression of Disaster Management Using Cloud Computing Methodology”, International Conference on Competency Building Strategies in Business and Technology for Sustainable Development, Sairam Institute of Management Studies, Chennai, India, September 22 – 23, 2011
- **Best Academic Researcher 2012 Award** by Association of Scientists Developers and Faculties (ASDF & ICCA), Pondicherry, India, January 31st, 2012.
- **Best Educationist Award** by International Institute of Education and Management, New Delhi for Outstanding Achievements in the field of Education, January 21, 2012.
- **Rashtriya Vidya Gaurav Gold Medal Award** by Indian Solidarity Council, New Delhi on January 21, 2012.
- **Best Dean – Teacher’s Day Awards** -2013, Kalvichudar, Education Today & ePadasala, Chennai, November 13th, 2013.
- **Chair Person**, International Conference on Economics, Business, Finance, Human Resource & Technology for Sustainable Development (IEBFHT’13), Sai Ram Institute of Management Studies, Chennai, India, December 20 – 21, 2013.
- **Chair Person**, International conference on “Empowering People towards Sustainable Development”, Faculty of Management Studies & Commerce, University of Jaffna, Sri Lanka, 14-15, March 2014.
- **Chair Person**, 7th International Conference on Social Science Research for Sustaining Business & Economy in Global Market (ICSRBEGM-17), Sri Sai Ram Institute of Management Studies, Chennai, India, September 20 & 21, 2017.
- **Academic Advisor** for National Cyber Safety and Security Standards, New Delhi, 17th May 2018.
- **Panel Member** of Library Science & Information Management Technical Session in the IRCUWU 2019, Sri Lanka, February 7 – 9, 2019.
- **Chair Person**, Computing & Information Sciences Technical Session, International Research Conference of Uva Wellassa University, Sri Lanka, February 7 -9, 2019.

- **ISTE Best Chapter Chairman Award** for Engineering College for the Year 2019 on 19th ISTE TN Section Annual Convention of Engineering Students, 18th December 2019, at PSG Institute of Technology & Applied Research, Coimbatore.
- **Teaching Excellence Award 2022-23**, The International Association of Lions Club, Chennai 11th September 2022.
- **Best Head of the Department Award 2022**, Chennai Soft Tech, Chennai, on 5th November 2022.

RESEARCH PROJECT ACTIVITIES

- One of the Co-Investigators – DIT project “Centre of Excellence for Grid Computing Research - (CARE)” for a total cost of Rs.4.60 Crore – Anna University, Chennai, five years from 17/05/2007 to 16/05/2012.
- Financial Assistance under Popularization of Science (2018-19) to conduct “Disaster Management and Emergency Planning in Rural Development”- Rs. 20,000/- received from Tamil Nadu State Council for Science and Technology, Chennai – TNSCST/POP.SCI/AR/09/2018-19/4789 dated 2.11.2018.
- Financial Assistance from MHRD, Unnat Bharat Abhiyan (2018-19) scheme Rs 5,00,000/- or the adaptation of five villages in and around Padappai, Chennai.

Google Scholar:

<https://scholar.google.com/citations?user=iq6rwMYAAAAJ&hl=en&authuser=1>

ORCID: 000-0003-1599-1284

SCOPUS: 57197443567

LinkedIn: raja kothandaraman