

Vijayakumar Varadarajan, PhD

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Curriculum Vitae

Dedicated computer scientist and engineer with a PhD and 20 years of experience in education and industry and innovative managerial experience at national and international institutions and organisation. Advance, design, and execute short- and long-term strategies to achieve an organisations' vision. Cultivate and encourage internal and external collaborations to enable an organisation to better leverage expertise and resources. Oversee change management, team events planning, facilitate performance improvement to strengthen teamwork and networking. Cultivate relationships with thought leaders and influencers, the media, and regional and international development actors. Ensure that grants achieve expected results and comply with best practices in transparency, accountability and financial management.

SELECT ACHIEVEMENTS

- Top 13 Best Cloud Computing Book Award, Book Authority, 2020
- Appreciations for One of the Cybersecurity Book Featured in New K-12 Online Learning E-Book Collection and Web Services, IGI Global, 2020
- A European Alliance for Innovation Fellow – 2019.
- Research Award, VIT CHENNAI – 2014 to 2019.
- Best Faculty Award, VIT CHENNAI – 2016.
- Outstanding Contribution Award, Design for Scientific Renaissance, UK – 2018 and 2019.
- Anna Award - First Rank, Vellore Engineering College, University of Madras – 2000.
- 100% result, SRM Easwari Engineering College, Anna University Chennai – 2001 to 2003.
- Bravo Award, Mahindra Satyam – 2009.
- Pat on Back Award, Mahindra Satyam –2010.
- Vendor Excellence Award, FORD India – 2011.
- Honours Award, Department of Technical Education Diploma.
- Centum in Mathematics, Secondary School Leaving Certificate.

FUNDING

- 1 LAKH, BRNS, India – IC BCC 2014.
- INR50K, CSIR, India – ICBC 2018.
- USD2K, IBM, USA – ICBC 2019.
- USD1K, Travel Grant – UNIK, Rwanda 2017.
- USD1K, Travel Grant – ACSAT, MALAYSIA 2016.
- USD1K, Travel Grant – EAI, UK, 2018.
- USD1K, Travel Grant – ACSAT, MALAYSIA 2017.
- USD1K, Travel Grant – ACSAT, Langkawi 2018.
- USD1K, Travel Grant – NTMS, Spain, IEEE 2019.
- USD300, Travel Grant – ISTE, Vietnam 2015.
- INR30K, Project, YAAL Enterprises, India.
- INR60K, Suntrion TechnoSOL Pvt Ltd, India.
- INR50K, BriteYellow Ltd, UK.
- 50K INR Northumbria University UK.

EDUCATION

PhD in Computer Science and Engineering, 2012, *Anna University, Chennai, India*

Master of Business Administration (MBA), Human Resource and Development, 2007, *Periyar University, Salem, IN*

Master of Engineering (ME), Computer Science and Engineering, 2000, *VEC, Madras University, IN*

Bachelor of Engineering (BE), Computer Science and Engineering, 1999, *KSRCT, Madras University, IN*

D.C. Tech, Computer Technology, 1996, *KSRIT, Department of Technical Education, IN*

PROFESSIONAL & PERSONAL DEVELOPMENT

Participation and Organised

1. Member, Consortia of SecureChains(COST), Smart & Lean Hub Ltd, Finland with 24 plus Countries, 2020
2. Member, K17 Green Team , Green Impact, UNSW, 2020

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3. Council Member, GLG Group
4. Professional Member, KEOAIEC Group
5. Professional Member, AIS Group
6. Meeting concerning collaboration with ARICENT Vice-President.
7. MoU discussion with SUN SOLAR TECH, Bangalore.
8. DST project discussion, Bangalore.
9. Android Amaze APP Fest Event, 2015.
10. National Conference on Engineering Applications for Developing Smart Cities, 2015.
11. The New Game-Changers for IT: Agile, DevOps, and PaaS, REDHAT, Bangalore.
12. Introduction to OpenStack, VMWARE, Bangalore.
13. CONNECT 2014, Bangalore.
14. QS Seminar, AMITY, Delhi.
15. Big Data Analytics and Signal Processing using MATLAB, MATLAB, 2015.
16. Knowledge Management for Business Sustainability & Transformation, 2015.
17. Cloud 2020, UNYSIS, Bangalore, 2016.
18. UKIERI Workshop, British High Commission, 2016.
19. VMware vFORUM, 2016.
20. Research Approaches and Research Strategy, Government College of Engineering, Salem, 2007.
21. Cybercrime and Security Management, Ramanujan Computing Centre, Anna University, Chennai, 2007.
22. Grid and Pervasive Computing, Madras Institute of Technology, Chennai, 2006.
23. Grid Computing – Technology and Applications, VIT, Vellore, 2006.
24. Certificate of Cumulative Assessment of Competencies, CLHRD, Mangalore, 2006.
25. Grid Computing Workshop, SRM Easwari Engineering College, Chennai, 2006.
26. MCSE 2000/CISCO Router (CCNA), Zoom Technologies, Hyderabad, 2003.
27. Internet for Civil Engineers and Architects, Salem Civil Engineer's Association, 1998.
28. Oracle and UNIX, Lakhota Computer Centre, Trichengode, 1996.
29. Zeal Leadership, ZEAL, Salem, 1997.
30. Quality Improvement Programme, TTTI, Chennai, 2001.
31. Trekking, 22nd, Yercaud Summer festival, Salem, 1997.
32. Blood Donation, KSM Blood Bank, Salem, 2006.
33. ANDROID Application Development Workshop, Mr Girish Kumar, Head
34. Android Development Centre, EI Systems and Services, Gurgaon, 2013.
35. NS2 Hands-on Workshop, Prof T. S. Pradeep Kumar, Professor/CSE, VIT, Chennai, 2013.
36. International Workshop on Cloud Computing with ICMCE'13, VIT Chennai, India.
37. Two Days National Workshop on Ontological Engineering, Dr Kavimahesh, Senior Consultant, Infosys Workshop on Web Services, 28 September 2013. KaaShiv InfoTech, Chennai.
38. Two Days National Workshop on ANDROID LEVEL I, Griffin Info Systems, Chennai, India.
39. Two Days National Level Workshop on Motion sensing and Gesture computing.
40. Two Days National Workshop on ANDROID Advanced LEVEL, Griffin Info Systems, Chennai, India.
41. Seminar on India's relevance to the 21st Century and IT's relevance to India's growth, Dr Om Deshmukh Senior Research Scientist, Xerox Research Centre, India.
42. Seminar on "Cloud Computing: The Next Revolution in Information Technology", Dr Rajkumar Buyya, Melbourne University, Australia.
43. International Symposium on "BIG DATA and CLOUD COMPUTING CHALLENGES, 1 Lakhs INR grant from BRNS, Government of India.
44. National Workshop on BUSINESS RECOVERY PLANNING IN HIGH-PERFORMANCE CLOUD COMPUTING, FEB'2014.
45. National Workshop on Tool Supported Agile Requirements Engineering, FEB'2014

ADMINISTRATIVE EXPERIENCE

School of Computing Science and Engineering, VIT University, Chennai, IN

05/2013 to 07/2019

Professor and Associate Dean

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As an **Associate Dean**, managed 100 faculties, 10 staffs, 50 research scholars, 2000 students, 15 laboratories and a member of the University Purchase Committee.

As a **professor**, served as the Industrial Internship Coordinator, the Cloud Computing Research Group Coordinator, the Head of National/International Industrial Relations, the Head of National/International University Relations, and the National/International Collaborative Events Organizer. **Select Subjects Taught:** Theory, Data Ware Housing and Data Mining, Grid Computing, Human-Computer Interaction, Cloud Computing, Industrial Automation Software System, Project Management, Management Information Systems, Web Technologies.

- Signed Memoranda of Understanding (MoUs) for collaboration on projects, research, publications, patents, conferences, workshops and editorials with **Northampton University**, UK – 2014, **University of Missouri**, US – 2016, **CDAC**, IN – 2015, **DLINK**, IN – 2016, **University of Kibungu (UNIK)**, RW – 2016, **International Islamic University of Malaysia**, MY – 2016, **Semtech**, Bangalore, IN – 2017, **Bank Danamon Corporation**, ID – 2017, **Financial Software Solutions**, IN – 2017, **SorokoSoft**, Hyderabad, IN – 2018, **Acorn**, Hyderabad, IN – 2018, **Sunderland University**, UK – 2018, **Northumbria University**, the UK – 2018, **BriteYellow**, the UK – 2018, **XEROX**, Bangalore, IN – 2016, and **BIS**, IN – 2015.
- Developed the University reputation internationally in collaboration with experts in industries, at other universities, research institutes and VIT researchers, and students.
- Contributed to augmenting the School's institutional position in the QS World Ranking significantly.

Department of Computer Science and Engineering, Maha College of Engineering, IN

06/2005 to 04/2007

Academic Coordinator, Department Head and Assistant Professor

As **Academic Coordinator** facilitated digital literacy and computation skills and computing modules and various activities for enhancing student digital skills. As the **Department Head**, managed the department in line with faculty and university strategic plans, served as a member of the Faculty Executive Board and contributed to the overall leadership and management of the Faculty. Developed and sustained appropriate structures for management, consultation, decision-making and communication with staff and students. Promoted and represented the University internally and externally. As an **Assistant Professor**, taught courses, developed and designed curriculum plans, stimulated class discussions, and ensured student engagement. Tutored and counselled students, maintained class-related records, and assessed student coursework.

- Coordinated social activities such as the ROTARACT Club, the Red Ribbon Club, and the National Service Scheme.

PROFESSIONAL EXPERIENCE

University of New South Wales, AU

01/2020

to

Present

Adjunct Professor

Teach courses, design and develop curriculum plans, stimulate class discussion, and ensure student engagement. Tutor and counsel students, maintain class-related records and assess student coursework.

- Arrange international, research, project, patent, industrial and institutional collaborative projects as well as activities to develop and enhance the University ranking.

Kyungpook National University, KR

08/2019

to

Present

Visiting Professor

Teach courses, develop and design curricula, stimulate discussions in class, and ensure student engagement. Tutor and counsel students, maintain class-related records and assess student coursework.

- Collaborate on research, publications, conferences, and editorials with academics and commercial researchers.

Universidade Federal do Piauí (UFPI), BR

02/2020 to Present

Visiting Post Doc Scientist

Generate research, publications, and conference collaborations.

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- Deliver high-quality research output.

BriteYellow Private Ltd, UK

09/2019 to Present

Lead Advisor for Data Science Projects and Research Collaborations

Participate in projects, on teams, and in quality improvement to attract collaborative projects.

- Deliver outstanding research.

MIT Square, UK

03/2020

to

Present

Cloud Computing Consultant

Engage C-Level executives to define strategy, identify motivators/drivers to adopt and unlock business value for customers. Generate roadmaps and drive buy-in across complex organizational structures. Also, deliver cost/benefit models and create compelling business cases to promote governance models that support the consistent engagement of technology aligned with institutional strategy and policy.

- Direct projects, conduct research and collaborate to publish journal articles and attend conferences

Noble International University, USA

04/2020

to

Present

Project Consultant

Engage C-Level executives to define strategy, identify motivators/drivers to adopt and unlock business value for customers. Generate roadmaps and drive buy-in across complex organizational structures. Also, deliver cost/benefit models and create compelling business cases to promote governance models that support the consistent engagement of technology aligned with institutional strategy and policy.

Direct projects, conduct research and collaborate to publish journal articles and attend conferences

Crown University Int'l Chartered Inc, Argentina

05/2020

to

Present

Visiting Post Doc Fellow

Member Board of Trustees

VC Representative for india

University development, work on educational Global standards, and World Rankings.

Bureau of Indian Standards, Government of India, IN

01/2018

to

Present

IoT Working Group Member

Define and promote the availability of the 'sandbox' of accessible server environments to develop, test and integrate IoT systems with Enterprise, Web, and cloud-based software. Focus on developers that use Eclipse IoT tools and runtimes and evaluate national and international project/research/standards proposals.

Department of Computer Science and Engineering, S.A. Engineering College, IN

02/2013 to 04/2013

Professor

Taught courses, developed and designed curriculum plans, inspired class discussion, and made sure of student engagement. Tutored and counselled students, maintained class-related records, and assessed student coursework.

Conducted research collaborations, published and attended workshops.

Tech Mahindra, Chennai, IN

11/2007 to 01/2013

Senior Software Engineer

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Assessed software and hardware components and supported software production. Administered databases, conducted performance tuning, collected business Intelligence, and settled disputes. Generated shell scripting, data modelling, and filtering for Ford US.

Department of Information Technology, Easwari Engineering College, IN

01/2001 to 04/2005

Senior Lecturer

Lectured courses, motivated classroom discussion, and ensured student engagement. Mentored and advised students, maintained class-related records, and assessed student coursework. Served as the National Service Scheme coordinator, supported industrial connectivity, and arranged conferences.

PUBLICATIONS

International Collaborative Events Organised Abroad with Proceedings Published in Scopus Indexed Journals or Published as Extended articles in SCI Journals

1. **General Chair, 1st International Workshop on Wearable Sensors and Devices, Artificial Intelligence and Wearables Market, Sponsored by IEEE Sensors Council, IEEE Sensors Council, IEEE Young Professionals Italy, 2020.** <https://workshopsensors.weebly.com/> (CHAIRS) UCBM- ITALY, UNSW-AUS, MIT- USA
2. General Chair, 1st Online Conference on Internet of Things, Scion, 2020, France
3. General Chair, 2nd International Conference on Science and Technology Metrics 2020
4. Co-Chairman, 1st INTERNATIONAL Virtual CONFERENCE - ACTUALISING INNOVATIVE LITERACY AND CREATIVE TECHNOLOGY IN NIGERIA: THROUGH AND BEYOND THE PANDEMIC, 2020
5. General Chair, International Conference on Cloud Computing and Information Science, 2021, China.
6. **General Co-Chair**, International Scientific Research Conference in Rwanda along with UNIK RWANDA, RIT USA and KSU USA on the 13th and 14th of July 2017.
7. **General Co-Chair**, 5th International Conference on Advanced Computer Science Applications and Technologies – ACSAT2017, along with DSR UK, IIUM Malaysia from the 11th to the 14th of Dec 2017 in KL, Malaysia.
8. **General Chair**, 8th EAI International Conference on Cloud Computing, along with the EAI Europe, Northumbria University in the UK, on the 4th and 5th of September 2018 in Exeter, UK.
9. **General Co-Chair**, 6th International Conference on Advanced Computer Science Applications and Technologies – ACSAT2018, along with DSR UK, IIUM Malaysia from the 10th to the 12th of December, 2018 in LANGKAWI, Malaysia.
10. **General Co-Chair**, 7th International Conference on Advanced Computer Science Applications and Technologies – ACSAT2019, along with DSR UK, IIUM Malaysia from the 7th to the 9th of December, 2019 in TUNISIA, Africa.
11. **General Chair**, 6th ICBC 2019, International Conference on Big Data and Cloud Computing, along with the UMKC-USA on the 9th and 10th of September, 2019 in Missouri, USA.
12. **General Co-Chair**, 10th IFIP NTMS 2019, along with the UoS, Spain, TP of France, CNRS of France, UPMC of France, EFREI of France, IEEE COMSOC, IFIP TC6 & IEEE SMCSS from the 24th to the 26th of June, 2019, in the Canary Islands, Spain.

International Journals

1. Wen-Jer Chang, Che-Lun Su, Vijayakumar Varadarajan. (2020) "Fuzzy Controller Design for Nonlinear Singular Systems with External Noises subject to passivity constraints", Wiley-Asian Journal of Control, 22.

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2. R.Rajasing, Yash S.M, Shubham S.C, Indragandhi V, Vijayakumar V, Saravanan P, Subramaniaswamy V. (2020) "IoT embedded cloud-based intelligent power quality monitoring system for industrial drive application", Elsevier-Future Generation Computer Systems, 112, pp. 884-898.
3. Arunkumar S, V. Subramaniaswamy, Logesh R, V. Vijayakumar & V. Indragandhi. (2020) "Robust image steganography approach based on RIWT-Laplacian pyramid and histogram shifting using deep learning", Springer-Multimedia Systems, DOI <https://doi.org/10.1007/s00530-020-00665-6>
4. Indrajeet K, Chandradeep B, Kamred Udham S, Abhishek Kumar, V. Vijayakumar. (2020) "The state of the Art of Deep Learning Models in Medical Science and their Challenges", Springer-Multimedia Systems.
5. Alamelu, M. , Pradeep Kumar, T.S. , Vijayakumar, V., "Select this result for bulk action CiteFuzzy rule based SLA generation algorithms for web based multi party negotiation systems", IOS Press-JIFS, DOI: 10.3233/JIFS-189153, 2020
6. Latif, Ghazanfar , Alghazo, Jaafar , Maheswar, R. , Vijayakumar, V., Butt, Mohsin., "Select this result for bulk action CiteFuzzy rule based SLA generation algorithms for web based multi party negotiation systems", IOS Press-JIFS, DOI: 10.3233/JIFS-189132, 2020
7. Thompson Stephan, Kushal Sharma, Achyut Shankar, S. Punitha, Vijayakumar Varadarajan, Peide Liu., "Fuzzy-Logic inspired Zone-Based Clustering Algorithm for Wireless Sensor Networks", Springer-International Journal of Fuzzy Systems, 2020
8. Sheezan Fayaz, Shabir A. Parah, Vijaya Kumar V., "Underwater image restoration: A state of the art review", IET Image Processing, 2020
9. Subramaniaswamy, V., Vijayakumar, V. , "An intelligent location recommender system utilizing multi-agent induced cognitive behavioural model", Taylor & Francis, Enterprise Information Systems, 2020
10. Christy, Jackson J , Rekha, D , Vijayakumar, V , Carvalho, Glaucio H.S., "Optimal broadcast scheduling method for VANETs: An adaptive discrete firefly approach", IOS Press-JIFS, DOI: 10.3233/JIFS-189134, 2020
11. Karthikeyan, M.P. , Venkatesan, R. , Vijayakumar, V. , Ravi, Logesh , Subramaniaswamy, V., "White blood cell detection and classification using Euler's Jenks optimized multinomial logistic neural networks", IOS Press-JIFS, DOI: 10.3233/JIFS-189152, 2020
12. Sudhakar S, Vijayakumar V, Sujatha Krishnamoorthy, Gunasekaran S, Sathiya Kumar C, Saravanan Palani, Subramaniaswamy Vairavasundaram, "Investigation on Agricultural Land Selection using Hybrid Fuzzy Logic System", Scalable Computing: Practice and Experience, 21(3), 2020.
13. Senthilselvan, N. , Subramaniaswamy, V. , Vijayakumar, V. , Karimi, Hamid Reza , Aswin, N. , Ravi, Logesh, "Distributed frequent subgraph mining on evolving graph using SPARK", IOS Press-JIFS, DOI: 10.3233/JIFS-189154, 2020
14. Nath, Keshab , Dhanalakshmi, R , Vijayakumar, V. , Aremu, Bashiru , Kumar Reddy, K Hemant , Gao, Xiao-Zhi, "Uncovering hidden community structures in evolving networks based on neighborhood similarity", IOS Press-JIFS, DOI: 10.3233/JIFS-189150, 2020
15. Dayal, Ras Bihari , Vijayakumar, V. , Kushwaha, Rahul Chandra , Kumar, Abhishek , Ambeth Kumar, V. D. , Kumar, Ankit, "A cognitive model for adopting ITIL framework to improve IT services in Indian IT industries", IOS Press-JIFS, DOI: 10.3233/JIFS-189131, 2020
16. Stephan, Thompson , Rajappa, Ananthnarayan , Sendhil Kumar, K.S. , Gupta, Shivang , Shankar, Achyut , Vijayakumar, V., "Modified fuzzy-based greedy routing protocol for VANETs", IOS Press-JIFS, DOI: 10.3233/JIFS-189154, 2020
17. D. Kumar, D. S. Roy, K. H. K. Reddy, S. Pratihari, V. Vijayakumar, B. Pradhan. (2020) "Energy Efficient Group Paging for Mobility and QoS constrained IoT over next generation LTE-A Pro - 5G NR rendezvous", Elsevier-Journal of Systems Architecture.
18. N.Kirn Kumar, V. Indra Gandhi, Logesh Ravi, **V. Vijayakumar**, V. Subramaniaswamy. (2020), "Improving Security for Wind Energy Systems in Smart Grid Applications using Digital Protection Technique", Elsevier-Sustainable Cities and Society, DOI: <https://doi.org/10.1016/j.scs.2020.102265>.
19. V. Subramaniaswamy, R. Logesh, D. Malathi, V. Vijayakumar, Hamid Reza Karimi, Marimuthu Karupiah. (2020), "Effective user preference mining-based personalised movie recommendation system", Inderscience-International Journal of Computer Aided Engineering and Technology, 10.1504/IJCAET.2020.10029314.

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20. Senthilselvan, N., Subramaniaswamy, V., Vijayakumar, V., Karimi, Hamid Reza, Aswin, N., Ravi, Logesh., (2020), "Distributed frequent subgraph mining on evolving graph using SPARK", *IOS- Intelligent Data Analysis*, 24(3), pp. 495-513. DOI: 10.3233/IDA-194601.
21. Abdul Qadir Md, **Varadarajan Vijayakumar**. (2020) "Combined Preference Ranking Algorithm for Comparing and Initial Ranking of Cloud Services", *Recent Advances in Electrical & Electronic Engineering*, 13(2), pp. 260 - 275. DOI:10.2174/1872212113666190215145330.
22. M. Poongodi, **V. Vijayakumar**, Naveen Chilamkurti. (2020) "Bitcoin price prediction using ARIMA model", *International Journal of Internet Technology and Secured Transactions*, DOI:10.1504/IJITST.2020.10028982.
23. Sivaramakrishnan N, Subramaniaswamy V, Logesh Ravi, **Vijayakumar V**, Xiao-Zhi Gao, Rakshana Sri S L. (2020) "An Effective User Clustering-based Collaborative Filtering Recommender System with Grey-Wolf Optimization", *International Journal of Bio-Inspired Computation*.
24. B. Durgalakshmi, **V. Vijayakumar**. (2020) "Feature selection and classification using support vector machine and decision tree", *Wiley-Computational Intelligence*, DOI:https://doi.org/10.1111/coin.12280.
25. Surendar Selvasubramaniam, Elangovan Mahadevan, Akshay Elangovan, **Vijayakumar Varadarajan**. (2020) "Effect of feature and sampling ratio on tool wear classification during boring operation using tree-based algorithms", *International Journal of Vehicle Information and Communication Systems*.
26. V. Indragandhi, V. Subramaniaswamy, R. Logesh, **V. Vijayakumar**, P. Manimekalai. (2020) "An overview of electric vehicle converter configurations, control methods and charging techniques", *International Journal of Vehicle Information and Communication Systems*.
27. V.N. Pranathy, V. Indragandhi, Kiran Sathyan, **V. Vijayakumar**, Ravi Logesh, V. Subramaniaswamy. (2020) "Wireless power transfer with tuning capacitor compensation for electric vehicle applications", *International Journal of Vehicle Information and Communication Systems*.
28. N. Sivaramakrishnan, V. Subramaniaswamy, Amelec Vilorio, **V. Vijayakumar** & N. Senthilselvan. (2020), "A deep learning-based hybrid model for recommendation generation and ranking", *Springer-Neural Computing and Applications*, DOI:https://doi.org/10.1007/s00521-020-04844-4.
29. Poongodi, M., **Varadarajan, V.**, Al-Turjman, F., Hamdi, M., Maode, M. (2020) "Intrusion Prevention System for DDoS Attack on VANET with reCAPTCHA Controller Using Information Based Metrics", *IEEE Access*, 7, pp. 158481-158491.
30. Sukumar A., Subramaniaswamy V., **Varadarajan V.**, Ravi L. (2020) "A secure multimedia steganography scheme using hybrid transform and support vector machine for cloud-based storage", *Multimedia Tools and Applications*, (January). DOI: 10.1007/s11042-019-08476-2.
31. Poongodi M., Sharma A., **Varadarajan V.**, Bhardwaj V., Sharma A.P., Iqbal R., Kumar R. (2020) "Prediction of the price of Ethereum blockchain cryptocurrency in an industrial finance system", *Elsevier - Computers and Electrical Engineering*, 81(1), pp. 1-12.
32. Sudhakar S., **Varadarajan V.**, Kumar, S.C., Priya V., Subramaniaswamy V., and Ravi, L. (2020) "Unmanned Aerial Vehicle (UAV) based Forest Fire Detection and monitoring for reducing false alarms in forest-fires", **Elsevier - Computer Communications**, 149 (1), pp. 1-16, 2020.
33. Saikishor, J., **Varadarajan, V.**, and Subramaniaswamy, V. (2020) "Hybrid Best-Fit Heuristic for Energy Efficient Virtual Machine Placement in Cloud Data Centers", *EAI Endorsed Transactions on Energy Web*, 7(26), DOI: 10.4108/eai.13-7-2018.162689.
34. Chen S., Zheng Y., Lu W., **Varadarajan, V.**, and Wang K. (2020) "Energy-optimal Dynamic Computation Offloading for Industrial IoT in Fog Computing", *IEEE Transactions on Green Communications and Networking*, (7), DOI: 10.4108/eai.13-7-2018.162689.
35. Matthew, K.M., Muhammed A.Q., and **Varadarajan, V.** (2019) "An improved key management scheme in cloud storage", *Inderscience-International Journal of Advanced Intelligence Paradigms*, 14(3), pp. 97–203.
36. Sukumar, A., Subramaniaswamy, V. **Varadarajan, V.**, and Ravi, L. (2020) "A secure multimedia steganography scheme using hybrid transform and support vector machine for cloud-based storage", *Multimedia Tools and Applications*, 10 (10), pp. 1–25.
37. Daria Y. Mironova, V. Vijaya kumar, Rajkumar Murugesan. (2019) "Demola International Project as An Instrument of Students Involvement in Science - Business Integration", *International Journal of Innovative Technology and Exploring Engineering*, 8(7C2), pp. 239-247.

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38. Lakshmanaprabu, S. K., Shankar, K., Ilayaraja, M., Nasir, A.W., **Varadarajan V.**, and Chilamkurti, N. (2019) "Random forest for big data classification in the internet of things using optimal features", *Springer-International Journal of Machine Learning and Cybernetics*, 10(10), pp. 2609-2618.
39. Jeman, A.A.J., Hannon N., Hidayat N., Adam M.M.H., Musirin I., and **Varadarajan, V.** (2019) "Simulation on a microgrid connected PV system under balanced and unbalanced fault ", *Indonesian Journal of Electrical Engineering and Computer Science*, 13(3), pp. 1332-1336.
40. Sathiyarayanan, M., **Varadarajan V.**, and Pradeep, K.V. (2019) "Visual Analytics on Spatial Time Series for Environmental Data", *International Journal of Recent Technology and Engineering*, 8(2), pp. 1173-1181.
41. Poongodi, M., Sharma, A., **Varadarajan, V.**, Bhardwaj, V., Sharma, Abhinav, P.R., and Kumar, R. (2020) "Prediction of the price of Ethereum blockchain cryptocurrency in an industrial finance system", *Computers & Electrical Engineering*, 81(January), <https://doi.org/10.1016/j.compeleceng.2019.106527>.
42. **Varadarajan V.**, Malathi, D., Subramaniaswamy, V., Saravanam, P., and Ravi, L. (2019) "Fog computing-based intelligent healthcare system for the detection and prevention of mosquito-borne diseases", *Computers in Human Behavior*, 100, pp. 275-285.
43. Bharathi C., and **Varadarajan V.** (2019) "Equalized load shaping for demand-side management using the memetic algorithm", *International Journal of Recent Technology and Engineering*, 8(2), pp. 1216-1222.
44. Vincent, R., and **Varadarajan, V.** (2019) "An enhanced virtual reality method for diagnosing autistic children", *International Journal of Recent Technology and Engineering*, 8(2), pp. 2277-3878.
45. Jangiti, S., Swathi, G., Ravi L., **Varadarajan, V.**, and Subramaniaswamy, V. (2019) "Automated question extraction and tagging for cloud-based online communities", *Inderscience Online*, 15(3), pp. 212-224.
46. Md, A.Q., and **Varadarajan, V.** (2019) "Dynamic ranking of cloud services for web-based cloud communities: Efficient algorithm for rating-based discovery and multi-level ranking of cloud services", *Inderscience Online*, 15(3), pp. 248-270.
47. Jeman, A.A.J., Hannon N., Hidayat, N., Adam M.M.H., Musirin I., and **Varadarajan V.** (2019) "Experimental study on the transient response of fuel cell", *Bulletin of Electrical Engineering and Informatics*, 8(2), pp. 375-381.
48. Thillaiarasu N., Pandian, S.C., **Varadarajan V.**, Prabakaran, S., Ravi, L., and Subramaniaswamy V. (2019) "Designing a trivial information relaying scheme for assuring safety in mobile cloud computing environment", *Wireless Networks*, 16(August), <https://doi.org/10.1007/s11276-019-02113-4>.
49. Anusooya G., **Varadarajan V.**, and Narayanan V.N. (2019) "Reducing the carbon emission by early prediction of peak time load in a data centre", *Journal of Intelligent and Fuzzy Systems*, 36(5), pp. 4341-4348.
50. Pradeep K.V., and **Varadarajan, V.** (2019), "A proposed client based key management framework to secure information in cloud storage for public SaaS", *International Journal of Recent Technology and Engineering*, 8(1), pp. 2148-2153.
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52. Poongodi, M., **Varadarajan, V.**, Ramanathan, L., Gao, X.Z., Bhardwaj, V., and Agarwal T. (2019) "Chatbot-based natural language interface for blogs and information networks", *Inderscience Online*, 15(2), pp. 178-195.
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1. **Guest Editor, "Call for Papers: Emerging digital technologies and applications for SMEs", Elsevier-International Journal of Information Management (IF 8.7), 2022, SCI**
2. Guest Editor, "Special issue on Fuzzy inference, neuro-fuzzy, and emerging fuzzy hybridization systems", Springer-Neural Computing and Applications, 2021 (SCI Indexed)
3. Guest Editor, Special Issue "Selected Papers from 6th International Conference on Sensors and Electronic Instrumentation Advances (SEIA' 2020)", MDPI-Sensors, 2021 (SCI Indexed)
4. Lead Guest Editor, "Trustworthy Computing for Secure Smart Cities", Journal of Ambient Intelligence and Smart Environments, 2020(SCI Indexed)
5. Guest Editor, "Integration of Green ICTs and Industry into Green Governance for a Sustainable Ecosystem", MDPI-Sustainability, 2020 (SCI Indexed)
6. Lead Guest Editor, "Special issue on Explainable Recommender Systems", WSEAS Transactions on Systems and Control, 2022, Scopus
7. Lead Guest Editor, Taylor & Francis - Information Security Journal: A Global Perspective, 2021
8. Lead Guest Editor, Techscience - Computers, Materials & Continua, 2021
9. Lead Guest Editor, MDPI Electronics Journal, 2021
10. Lead Guest Editor, Elsevier - Array, 2021
11. Lead Guest Editor, Big Data and Cognitive Computing, 2021
12. QS World Ranking Coordinator
13. Advisory Chairman, 1st IFSA ARCI 4.0 2021, France
14. Advisory Chairman, 6th International Conference on Sensors and Electronic Instrumentation Advances, SEIA' 2020, Portugal
15. Publicity Chair, 4th World Conference on Smart Trends in Systems, Security and Sustainability (IEEE WS4 2020), UK.
16. Publicity Chair, 4th International Conference on Big Data and Internet of Things, 2020, Singapore.
17. TPC Chair, The 3rd Int'l Conference on Data, Information and Knowledge Management, 2020
18. TPC Member, IEEE GLOBECOM - Workshop - 5GWiS, 2020, TAIWAN
19. TPC Member, 16th International Conference on Mobility, Sensing and Networking (IEEE MSN 2020), 2020, Japan
20. Publicity Chair, 1st Energy Informatics.Academy Conference Asia, 2021, China.
21. Co-Chairman, 1st INTERNATIONAL Virtual CONFERENCE - ACTUALISING INNOVATIVE LITERACY AND CREATIVE TECHNOLOGY IN NIGERIA: THROUGH AND BEYOND THE PANDEMIC, 2020
22. General Chair, International Conference on Cloud Computing and Information Science, 2021, China.
23. NIST 2019, SPAIN – General Co-Chair – International Conference
24. ACSAT 2017,2018,2019, MALAYSIA – General Co-Chair – International Conference
25. Cloud Comp 2018, UK – General Chair – International Conference
26. ICBC 2019, USA– General Chair – International Conference
27. ICAC 2017, RWANDA– General Co-Chair – International Conference
28. Session Chair, "Smart Contract", 15th IEEE INFOCOM 2020, Canada
29. General Chair, 1st International Workshop on Wearable Sensors and Devices, Artificial Intelligence and Wearables Market, Sponsored by IEEE Sensors Council Italy, 2020.
30. General Chair, International Conference on Analysis, Control and Modelling, RUSSIA, 2020.
31. Workshop Chair, International Workshop on Artificial Intelligence for Mobile and Ubiquitous Communication System, EAI MobiQuitous 2020, Germany
32. Session Co-Chair, "Smart Industry", Smart Devices Symposium 2021, Japan
33. Scientific Advisory Board, Smart Devices Symposium 2021, Japan
34. Invited Keynote Speaker, "Smart Industry", Smart Devices Symposium 2021, Japan

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35. Invited Webinar Speaker, "Cloud 1 to 5", SNS 2020, India
36. Invited STTP speaker, "ML with Python in DS Applications and Research Perspective", SRM/AICTE, India
37. Invited Keynote Speaker, "International Conference on Cloud Computing and Information Science", 2021, China
38. Invited Keynote Speaker, 11th International Conference on Advances in Information Technology IAIT 2020, Thailand
39. Invited Webinar Speaker, "Usage of ICT in Health Information Systems", ACE 2020, India
40. Invited Webinar Speaker, "New Technologies in Healthcare", SRM 2020, India
41. Invited Webinar Speaker, "Data Analytics using Python", SNS 2020, India
42. TPC Member, EIA Asia 2020 1st Energy Informatics. Academy Conference Asia, Beijing China, 11-13 December 2020
43. Advisory Committee Member, 11th Annual International Research Conference, SIMSARC, India, 2020
44. **PROFESSIONAL DEVELOPMENT ACTIVITIES – EDITORIAL**
45. Lead Guest Editor, Sensors and Materials, 2020 (SCI Indexed)
46. Lead Guest Editor, The International Journal of Web Based Communities, Inderscience, 2020 (Scopus Indexed)
47. Lead Guest Editor, International Journal of Continuing Engineering Education and Life-Long Learning, Inderscience, 2020 (Scopus Indexed)
48. Lead Guest Editor, Malaysian Journal of Computer Science, UM, 2020 (SCI Indexed)
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51. Lead Guest Editor, "Advanced Techniques and Emerging Trends in Smart Cyber-Physical Systems", Elsevier-Future Generation Computer Systems, 2020
52. Guest Editor in IGI Global Journals (Scopus Indexed)
53. Guest Editor, "Special Issue Processing of Web and Mobile Data in the Cloud (WebMobileCloud-2019)", Open Journal of Information Systems, 2019, DBLP
54. Editor in Procedia Computer Science (ISBCC 2015, Scopus)
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70. Member, Editorial Review Board, Digital Business and Innovation, ESIC Journal
71. Member, Editorial Board, Cloud Computing and Data Science, WISERPUB
72. Computer Science Editorial Advisory Board, Cambridge Scholars Publishing, UK
73. Reviewer in 28th EUROSIP, 2020.
74. Reviewer, Springer-Evolving systems Journal, 2020
75. Reviewer in International Conference on Computational Intelligence and Communication Networks (CICN) 2011.
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77. Reviewer in International Conference on Communication Systems and Network Technologies (CSNT) 2011.
78. Reviewer in International Conference on Communication Systems and Network Technologies (CSNT) 2012.
79. Reviewer in World Congress on information and communication technologies (WICT), IEEE, 2011.
80. Reviewer in Journal of Supercomputing, Springer, 2010.
81. Reviewer in Journal of Supercomputing, Springer, 2011.

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82. Reviewer in Journal of Supercomputing, Springer, 2012.
83. Reviewer in Journal of Supercomputing, Springer, 2013- present.
84. Reviewer in Allied Academies Journals Reviewer in Journal of Engineering Science & Technology, 2019.
85. Reviewer, IEEE Network Magazine, 2020
86. Reviewer, Complex & Intelligent Systems, Springer, 2020
87. Reviewer, International Journal of Applied Research on Public Health Management, IGI Global
88. Member Reviewer Board, Journal of Engineering Science and Technology

Guideship, DC Member, and PhD Examiner

1. PhD Students, three completed, five submitted theses.
2. 50 B. Tech, M. Tech, MS and MCA projects completed.
3. 50 PhD Dc Member includes College of Engineering Guidy, IN
4. 10 PhD Thesis – an Examiner, includes BHU, ITT, Banaras Hindi University, Indian Institute of Technology and the University of Dehli.
5. 10 PhD Students under evaluation.

Books, Journals, and Chapter Editing

1. Vijayakumar Varadarajan, Venkataraman Neelananarayanan, Ron Doyle, Imad Fakhri Al-Shaikhli & Sven Groppe , "Editorial: Mobile Networks in the Era of Big Data", Mobile Networks and Applications, SPRINGER, Vol.24, pp.1135–1138, 2019.
2. Vijayakumar Varadarajan, Venkataraman Neelananarayanan, Ron Doyle, Imad Fakhri Al-Shaikhli & Sven Groppe , "Editorial: Mobile Networks in the Era of Big Data", Mobile Networks and Applications, SPRINGER, Vol.24, pp.1015–1017, 2019.
3. V. Varadarajan, V. Neelananarayanan, Dr Praveen Rao, Janet Light, "Proceedings of the 6th International Conference on Big Data and Cloud Computing Challenges (ICBCC – 19)", Smart Innovation, Systems and Technologies, SPRINGER, 2019.
4. Varadarajan Varadarajan, V. Subramaniaswamy, Piet Kommers and Margriet Simmerling, "Cloud-Based Opportunities for Online Communities", International Journal of Web-Based Communities, Inderscience, pp-209-288, Vol:15, Issue:3, 2019.
5. Varadarajan V., Subramaniaswamy V., Abawajy J., Yang L., "Intelligent, smart and scalable cyber-physical systems ", Journal of Intelligent and Fuzzy Systems, IOS Press, pp-3933-3933, Vol:36, Issue:5, 2019.
6. V. Varadarajan, Prof. D. Rekha and Prof. Xiao-Zhi Gao., "Special Issue on Sensor Networks and Cloud Computing", International Journal of Advanced Intelligence Paradigms, INDERSCIENCE, ISSN 1755-0394, Vol. 10, No. 1/2, pp 3-207, 2018.
7. A. Dhanapal and Dr V. Varadarajan, "An Introduction to IPv4 Addressing Schemes, Modes and Classifications", Network Theory and Analysis, pp:41-55, ISBN:978-1-53613-460-5, NOVA PUBLISHERS, USA, 2018.
8. P.K. Paul, Neelananarayanan V., A. Bhuimali, Varadarajan V., "INFORMATION TECHNOLOGY & SMARTER SYSTEMS IN INFORMATION AGE", A Handbook, pp:1 234, NEW DELHI PUBLISHERS, 2018.
9. Varadarajan, V., Anderst-Kotsis, G., Cai, Z., Abawajy, J.H., " Preface ", International Journal of High-Performance Computing and Networking, INDERSCIENCE, ISSN 1740-0562, 2017.
10. V. Varadarajan, P. Nithyanandam, V. Neelananarayanan and Guillaume Blin., " Special Issue on Innovative Mobile Technology ", International Journal of Image Mining, INDERSCIENCE, ISSN 2055-6047, Vol. 2 No. ¾, pp 179-328, 2017.
11. V. Varadarajan and M. Sivabalakrishnan, Layth Sliman., " Towards fast-data and smart cloud computing ", Int. J. Knowledge Engineering and Soft Data Paradigms, INDERSCIENCE, ISSN 1755- 3229, 2017.

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12. Gunasekaran Manogaran, Chandu Thota, Daphne Lopez, V. Varadarajan, Kaja M. Abbas, Revathi Sundarsekar, "Big Data Knowledge System in Healthcare", Edited by Chintan Bhatt, Nilanjan Dey and Amira Ashour, Internet of Things and Big Data Technologies in Next Generation Healthcare, Studies in Big Data Series, Springer International Publishing, 2017.
13. Chandu Thota, Gunasekaran Manogaran, Revathi Sundarsekar, V. Varadarajan, "Big Data Security Framework for Distributed Cloud Data Centers", Edited by Michelle Moore, Cybersecurity Breaches and Issues Surrounding Online Threat Protection, IGI Global, 2017.
14. V. Varadarajan, V. Neelananarayanan, "Proceedings of the 3rd International Symposium on Big Data and Cloud Computing Challenges (ISBCC – 16')", Smart Innovation, Systems and Technologies, SPRINGER, Volume 49 2016, ISBN: 978-3-319-30347-5 (Print) 978-3-319-30348-2 (Online).
15. V. Varadarajan, V. Neelananarayanan, "Proceedings of the 2nd International Symposium on Big Data and Cloud Computing Challenges (ISBCC – 15')", Procedia Computer Science, ELSEVIER, 2015.
16. V. Varadarajan, Dr Rajkumar Buyya, Dr Jemal Abawajy and Dr Hamid Arabnia., "Special Issue on Big Data and Cloud Computing Challenges ", International Journal of Big Data Intelligence, INDERSCIENCE, ISSN 2053-1397, Vol. 2 No.1, pp 2-62, 2015.
17. V. Varadarajan, V. Neelananarayanan, Proceedings of the 1st International Symposium on Big Data and Cloud Computing Challenges (ISBCC – 14')", ARPN Journal of Engineering and Applied Sciences, Vol 10/5, 2015.
18. V. Varadarajan, V. Neelananarayanan, "Special Issue ISBCC 2014 Research Papers", Data Science Journal-CODATA, Vol 13, 2014.
19. Aparna Vijaya, V. Neelananarayanan, V. Varadarajan, Framework for Supporting Heterogeneous Clouds Using Model-Driven Approach, Springer, Volume 19 of the series Adaptation, Learning, and Optimization pp 219-235, 2015.
20. Sasikumar, Varadarajan, Object-Oriented Programming, Anuradha Publisher, 2005.
21. Venkatesh, Varadarajan, Wahidha Banu, Visual Programming, Salem Publisher, 2006.
22. Varadarajan, Sasikumar, Microprocessors and Microcontrollers, Salem Publisher, 2006

Organised Guest Lectures, Workshops, Seminars, MoU Meetings, and Interviews

1. Organising Chair, "International Seminar on Importance of Systems Engineering for Human space exploration", UNSW-NASA Event, Apr 2020.
2. Workshop on Android Mobile Development.
3. FIRST VITCC RESEARCH COLLOQUIUM.
4. Android Amaze hackathon.
5. 2 DAY NATIONAL WORKSHOP ON CLOUD COMPUTING.
6. Management Information Systems.
7. Grid Computing.
8. Software Project Management.
9. Trust in Grid Computing.
10. ERP.
11. iOS App Development Workshop.
12. Enterprise Resource Planning.
13. Web Technologies.
14. Quality of Research Improvement for PhD Scholars.
15. JAVA WEB SERVICES ARCHITECTURE.
16. E-learning Technologies.
17. MOU Meeting with Missouri University, USA.
18. MOU Meeting with New Brunswick University Canada.
19. Management Information Systems.
20. Grid Computing.
21. Software Project Management.
22. Trust in Grid Computing.
23. ERP.
24. iOS App Development Workshop.
25. Enterprise Resource Planning.
26. Web Technologies.
27. Quality of Research Improvement for PhD Scholars.
28. JAVA WEB SERVICES ARCHITECTURE.
29. eLearning Technologies.
30. MOU Meeting with Missouri University, USA.
31. Hyper-Scale Computing & Microsoft Azure Service Fabric.
32. Human-Computer Interaction.
33. MINDFULNESS based EQ for PROFESSIONALS.
34. Human-Computer Interaction.
35. Cloud-Based Lab.
36. Collaboration meeting with UMKC-USA.
37. Collaboration meeting with Haramaya University Ethiopia.
38. Collaboration meeting with Sandhya Technologies India.

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39. Collaboration meeting with CDAC Chennai.
40. Collaboration meeting with BIS Delhi.
41. Advanced Computer Networks.
42. Agile Software Development.
43. Agile Software Development - SCRUM and Advanced Tools.
44. Regarding Higher Studies @ UMKC.
45. Cloud Computing.
46. Cloud Security, Trust and Privacy & Mobi-Cloud.
47. Software Construction and Maintenance.
48. Software Construction and Maintenance.
49. Basic Bioinformatics.
50. Software Configuration Management.
51. SCM auditing and tools.
52. Collaboration Meeting with UMKC.
53. IoT- Industry Trends.
54. Cloud, Cloud Security and IoT.
55. Collaboration Meeting with UMKC.
56. Collaboration meeting with Capital Venture.
57. Geographical Information Systems.
58. Blockchain, Decentralized Web and IoT.
59. Introduction to Robotic Process automation.
60. Mathematics, Science and Analytics of Reliability Predictions.
61. Data Science Fundamentals and Best Practices.
62. IoT- Industry Trends.
63. ESRI Solutions on IoT, Semantic Technologies, GIS etc.
64. Software Tool for IoT/GIS/QOS - "APAMA".
65. Sustainable Cities.
66. Event-driven approach for predictive and proactive management of SLA violations in the Cloud of Things (CoT).
67. Habits of Employability.
68. Big data and cloud computing - industrial needs.
69. Embedded Robotics.
70. Communication in IoT.
71. Collaboration Meeting with Indonesian Delegates.
72. Relevance and the Importance of Campus Interviews.
73. Hyper-Scale Computing & Microsoft Azure Service Fabric.
74. Human-Computer Interaction.
75. MINDFULNESS based EQ for PROFESSIONALS.
76. Human-Computer Interaction.
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78. Collaboration meeting with UMKC-USA.
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101. Software Tool for IoT/GIS/QOS - "APAMA".
102. Sustainable Cities.
103. Event-driven approach for predictive and proactive management of SLA violations in the Cloud of Things (CoT).
104. Habits of Employability.
105. Big data and cloud computing - industrial needs.
106. Communication in IoT.
107. Collaboration Meeting with Indonesian Delegates.
108. Relevance and the Importance of Campus Interviews.
109. Cloud Computing.
110. "The spirit of Jugaad".
111. Mozilla OS App Development.
112. "Correctness in a Connected World".
113. Financial Literacy.
114. An industry perspective to solve the real-time problem using algorithms.
115. Importance of Algorithms in Research.
116. Become a Contributor to Indian Government Projects.
117. Cloud Computing - Industrial Perspective.
118. Mozilla Web maker.
119. Software Project Management in the Digital Era.
120. A Case Study on Big Data Projects.
121. Software Project Management.
122. Industrial Automation Systems.
123. "Time Series Analysis Model Applications".
124. Software Engineering & Project Management.

Organised Industrial Visits

1. CSIR Foundation Day.
2. MIS and Grid Computing.
3. ERP & Web Technology.
4. Web Technology.
5. Human-Computer Interaction.
6. IoT Panel Meeting.
7. VIT BHOPAL CAMPUS – CEREMONY.
8. Advanced Computer Networks.
9. Agile Software Development.
10. YII 2017 Conference Singapore.
11. BIS - Govt India, Working Group Meeting.
12. ACSAT IIUM VIT International conference 2017 Malaysia.
13. Zinnov Confluence 2018 Bangalore.
14. BIS, Govt of India, MEETING.
15. Software Configuration Management.
16. Information Security Meeting - PAT SCSE SCOPE and SITE.
17. IoT.
18. Software Project Management & Industrial Automation Systems.

PATENTS

1. IoT Based Intelligent Elevator with Optimized Power Consumption, Indian Patent, 2019.
2. A SELF-ASSISTIVE COMMUNICATION DEVICE, Indian Patent, 2019.
3. AN AUTOMATED INDOOR PARKING SYSTEM AND A METHOD THEREOF, Indian Patent, 2019.
4. System for Waste Management, Indian Patent, 2018, No.201841046716.
5. Drones for Smart Farming, Indian Patent, 2018.
6. SMART FLASK, Indian Patent, 2018.

PROFESSIONAL AFFILIATIONS

- IFSA Membership France, 2020, No: 20200429-001
- Professional Member, Diversity Council, Australia, 2000
- KEOAEIC Membership China, 2020, No: 003328
- BIS GOVT of INDIA, IoT Working Group Member from 2016
- Indian Society for Technical Education (ISTE).- LM32516
- Computer Science Teachers Association, USA (CSTA) - 2361750
- International Association of Engineers (IAENG) -150870
- Association for Computer Machinery (ACM) - 2361750
- ACM India Chennai Professional Chapter (ACM-ICPC) – 2361750
- MEMBER , LWA School Management Committee, Chennai from 2018

INTERNATIONAL REFERENCES

Available upon request.