

Department of Computer Science and Engineering
Anna University Regional Campus Tirunelveli
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Dr.K.SARAVANAN
Assistant Professor

➤ **Research Area:**

Cloud Computing, Big Data, Software Engineering, Internet of Things, Education Technology.

➤ **Educational Qualifications:**

Qualification	Department	Year (From -To)	Percentage	Class
B.E	COMPUTER SCIENCE & ENGG	1999 – 2003	75%	First class – distinction
M.E	SOFTWARE ENGG	2005-2007	8.14 CGPA	First class
Ph.D	ICE	2012-2015	NA	NA

➤ **Experience:**

Name of Company / Institutions	Designation of Post	From	To	Relived on	Experience in Year
		<u>DD-MM-YYYY</u>	<u>DD-MM-YYYY</u>		
Cognizant Technology Solutions Pvt Ltd	Associate	20-05-2007	02-09-2010	02-09-2010	3.2
Anna University Regional Campus, Tirunelveli	Assistant Professor	15-09-2010	Till date	NA	7.9

➤ **Awards:**

- Certificate of appreciation received from the Honourable Vice Chancellor for the contribution in software development for the office of Controller of Examinations.
- Certificate of appreciation (GEM) received twice from the Retail Manager, Cognizant Technology Solutions, Chennai as well as clients for solving repeat production issues.

- Recognized as Master Trainer for the course - Foundations skills in Integrated product development conducted by Anna University, Chennai.
- Received outstanding reviewer certificate from Elsevier in 2016.
- **Additional / Academic Responsibilities at University:**
 - Serving as a placement coordinator from the year 2015.
 - Serving as Remote Centre coordinator for IIT Bombay, IIT Kharagpur and IIRS Dehradun and conducted more than 30 ISTE workshops.
 - Serving as an Alumni Cell Incharge from the year 2017.
 - Serving as a QIC (Quality Improvement Cell) coordinator from 2014.
 - Served as a Camp Officer for the Anna University examinations for Zonal XX.
 - Served as a faculty incharge for web site development & maintenance.
- **Professional Activities:**
 - Technical Program Committee, 3rd International Conference on Next Generation Computing Technologies (NGCT2017).
 - Technical Programme Committee, International Conference on Innovations in Computing, Punjab, India.
 - Editorial Board Member, International Journal of Technology and Applied Engineering.
 - Technical Programme Committee, INDIACom.
 - Session chair and guest lecturers in conferences and symposiums.
 - Reviewer for international journals.
- **Membership of Scientific and Professional Societies:**
 - Indian Society of Technical Education (ISTE) Life Member
 - Association for Computing Machinery (ACM) – Professional Member

- Membership in Institution of Engineers (MIE)

➤ **Fellowships and Grants:**

1. Remote centre infrastructure setup

Duration: 1 Year
Role: RC coordinator
Agency : IIT Bombay
Amount: Rs.2.80 Lakhs

2. Aakash Project Centre

Duration: 1 Year
Role: Aakash Centre coordinator
Agency : IIT Bombay
Amount: Rs.1 Lakhs

➤ **Completed B.E/M.E Projects:**

- a. Number of ME Projects Completed: 27 Nos
- b. Number of BE Project Completed: 10 Nos

➤ **PhD Research Projects (Completed): NIL**

➤ **PhD Research Projects (Ongoing): NIL**

➤ **Sponsored Research Activities:**

1. Research Support Scheme of Young Faculty

Duration: 1 Year
Role: Investigator
Agency : CTDT, Anna University, Chennai
Amount: Rs.0.5 Lakhs

➤ **Consultancy Activities:**

1. Operation and maintenance of SCADA system in Tirunelveli Corporation

Duration: 3 Years
Role: Co-consultant
Agency : The Commissioner, Tirunelveli Corporation
Amount: Rs. 60.17 Lakhs

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

- a. Workshop (2012) , “Introduction to Research Methodologies” , organized by IIT Bombay during 25.06.2012 to 04.07.2012 (2 weeks).
- b. Workshop (2014), “Computer Programming”, organized by IIT Bombay during 21.04.2014 to 26.04.2014 (6 days).
- c. Workshop (2015), “Project proposals to funding agencies and promotion of consultancy”, organized by Government Engineering College, Tirunelveli during 22/08/2015 (1 day)
- d. Workshop (2015), “Cloud Openstack Kilo”, organized by Anna University Regional Campus,Tirunelveli, during 29.10.2015 to 30.10.2015 (2 days).
- e. Workshop (2015), “Design of Algorithms”, organized by IIT Kharagpur during 16.03.2015 to 20.03.2015 (5 days).
- f. Workshop (2016), “Use of ICT in Education for online and blended Learning”, organized by IIT Bombay during May & June 2016 (4 weeks).
- g. Workshop (2016), “Training Programme on Big Data Analytics”, organized by Anna University BIT Campus Tiruchirapalli during 14.07.2016 to 23.07.2016 (10 days).
- h. Workshop (2017), “Hands on with Grid and Cloud computing”, organized by Dr. Sivanthi Aditanar College of Engineering, Tiruchendur, during 28.06.2017 to 30.06.2016 (3 days).
- i. Workshop (2017), “Hands on workshop on python programming”, organized by Anna University, Chennai during 21.08.2017 to 22.08.2017.
- j. Workshop (2017) ,“Machine Learning” , organized by IIT Kharagpur during 16.12.2017 to 17.12.2017 (2 days)
- k. Short term MOOC course (2018), “Introduction to Internet of Things”, organized by IIT Kharagpur during January 2018 to April 2018. (12 weeks)

➤ **International Conferences Participated:**

1. K.Saravanan & M.Arumugam (2017), “ANDROID BASED PERFORMANCE ASSESSMENT SYSTEM FOR SCHOOL EDUCATION”, Proceedings of TEQIP-II Sponsored International Conference on Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT'2017), 24th – 25th, February, 2017, Puducherry, INDIA.
2. S. Selva Aswini, K.Saravanan ,(2017) “BORDER ALERT FOR FISHERMEN BY SMART TRACKING USING GPS”, International Conference on Discrete and Computational Mathematics, ICDCM2017.
3. E. Anusuya, K.Saravanan,(2017), “REAL TIME DATA HANDLING IN SCADA SYSTEM USING MAP REDUCING ALGORITHM”, ”, International Conference on Discrete and Computational Mathematics, ICDCM2017.

4. Saravanan K, Mahalakshmi G.S. and Geetha T.V (2006), "Design And Implementation Of An Ontology Based Approach To Automate Requirements Generation", National conference on Recent advances in computing, 2006.

➤ **Publications :**

a. Chapters in Books:

1. Saravanan, K. (2017). Cloud Robotics: Robot Rides on the Cloud – Architecture, Applications, and Challenges. In R. Kumar, P. Pattnaik, & P. Pandey (Eds.), *Detecting and Mitigating Robotic Cyber Security Risks* (pp. 261-274). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-2154-9.ch017

2. Saravanan K., & Srinivasan, P. (2017). Examining IoT's Applications Using Cloud Services. In P. Tomar, & G. Kaur (Eds.), *Examining Cloud Computing Technologies Through the Internet of Things* (pp. 147-163). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-3445-7.ch008

3. Saravanan, K. (2018). MOOC for Student Learning and Active Engagement. In A. Kumar (Ed.), *Optimizing Student Engagement in Online Learning Environments* (pp. 127-146). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-3634-5.ch006

4. Saravanan K & Radhakrishnan A, (2018). "Energy Aware Resource Allocation Model for IaaS Optimization" for the upcoming book, *Cloud Computing for Optimization: Foundations, Applications, Challenges, Studies in Big data*" book series, Springer. doi: https://doi.org/10.1007/978-3-319-73676-1_3

b. International Journals:

1. Saravanan K & Radhakrishnan A (2018), "Dynamic Search Engine Platform for Cloud Service Level Agreements Using Semantic Annotation", *International Journal on Semantic Web and Information Systems*, Volume 14, Issue 3, pp.no 70-98, 2018. DOI: 10.4018/IJSWIS.2018070104.

2. Saravanan K., Saraniya S., (2018) "Cloud IOT based novel livestock monitoring and identification system using UID", *Sensor Review*, Vol. 38 Issue: 1, pp.21-33, <https://doi.org/10.1108/SR-08-2017-0152>.

3. Saravanan, K & Rajaram, M (2015), 'An Exploratory Study of Cloud Service Level Agreements - State of the Art Review', *KSII Transactions on Internet and Information Systems*, vol.9, no.3, pp.843-871, ISSN 1976-7277.IF-0.561. DOI: 10.3837/tiis.2015.03.001

4. Saravanan, K., Silas Sargunam, S. and Rajaram, M. (2016) *Accomplishing Consummate Throughput with Delay and Power Control in MANET*, *Circuits and Systems*, 7, 1834-1844. doi: 10.4236/cs.2016.78158.

5. Saravanan, K. , Sargunam, S. and Rajaram, M. (2016) An Automated Semantic Negotiation for Cloud Service Level Agreements. *Circuits and Systems*, 7, 2443-2451. doi: 10.4236/cs.2016.79211.
6. Saravanan, K., Silas Sargunam, S. and Rajaram, M. (2016), Hadoop based Efficient Product Recommendation System in Online Web, *Asian Journal of Research in Social Sciences and Humanities*, Vol. 6, No. 8, August 2016, pp. 2521-2528.
7. Saravanan, K., Radhakrishnan A., M-Quiz using Android for Periodic Assessment in Higher Education, *Asian Journal of Research in Social Sciences and Humanities*, Vol. 6, No. 12, December 2016, pp. 775-783.
8. Saravanan, K, Rajaram, M & Priyadharsini R 2015 'Semantic Search Engine for SLA in Cloud using Semantic Annotation' *International Journal of Applied Engineering Research*, vol.10, Special Issue No 14, pp.11917-11922, ISSN 0973-4562.
9. Saravanan, K, Rajaram, M & Roshan Rizana A 2015, 'Automation of SLA Life Cycle in cloud using Semantic Negotiation', *International Journal of Applied Engineering Research*, vol.10, no.12, pp.31817-31833, ISSN 0973-4562 .
10. Sri Vigna Hema, Saravanan. K, "Dynamic Pricing Model for a Cloud Cache Environment", *International Journal of Engineering Trends and Technology (IJETT)* Seventh Sense Research Group, vol.4, no.4, pages-743, year-2013.
11. Jeyalakshmi & Saravanan. K, "Semantically Enhanced Content Management in Media Cloud", *International Journal of Engineering Trends and Technology (IJETT)*, Seventh Sense Research Group, vol.4, no.4, pages-750, year-2013.
12. Remya Gopinath & Saravanan. K, "Cloud Service Reservation using PTN mechanism in Ontology enhanced Agent-based System", *International Journal of Engineering Trends and Technology (IJETT)*, Seventh Sense Research Group, vol.4, no.4, pages-791, year-2013.
13. Lakshmi Kantham & Saravanan. K , "An enhanced QoS Architecture based Framework for Ranking of Cloud Services", *International Journal of Engineering Trends and Technology (IJETT)*, Seventh Sense Research Group, vol.4, no.4, pages-1022, year-2013.
14. Nishana Rahim & Saravanan. K, "Secured Image Sharing and Deletion in the Cloud Storage Using Access Policies", *International Journal on Computer Science and Engineering (IJCSSE)*, Engg Journals Publications, vol.5, no.4, pages-230, year-2013.
15. Ani Brown Mary & Saravanan. K ; "PERFORMANCE FACTORS OF CLOUD COMPUTING DATA CENTERS USING QUEUING SYSTEMS", *International Journal of Grid Computing & Applications (IJGCA)*, Academy & Industry Research Collaboration Center, vol.1, no.1, page-1, year-2013.
16. Nithya.C & K. Saravanan; "Semantic Annotation and Search for Educational Resources Supporting Distance Learning", *International Journal of Engineering Trends*

and Technology (IJETT), Seventh Sense Research Group, vol8, no.6, pages-277, year-2014.

17. Uthaya Banu & K.Saravanan , “Optimizing the Cost for Resource Subscription Policy in IaaS Cloud”, International Journal of Engineering Trends and Technology (IJETT), Seventh Sense Research Group, vol6, no.5, pages-296,2014.

18. K.Saravanan & M.Arumugam , “ANDROID BASED PERFORMANCE ASSESSMENT SYSTEM FOR SCHOOL EDUCATION”, CIIT INTERNATIONAL JOURNAL OF AUTOMATION AND AUTONOMOUS SYSTEMS , Volume 9, No 2, February 2017.

c. National Journals: NIL

➤ **Conferences**

a. International Conferences:

1. Nishana Rahim, Saravanan. K, "SECURITY MECHANISMS BY AUTHENTICATION FOR DATA SHARING IN THE CLOUD", International Conference on Emerging trends in Information and Communication Engineering 2013, CSI cape student Branch.
2. Remya Gopinath & Saravanan. K , "Enhancing Price And Time-Slot Negotiation Mechanism in Cloud", International Conference on Emerging trends in Information and Communication Engineering 2013, CSI cape student Branch.
3. Lakshmi Kantham & Saravanan. K,"A Novel Framework for Ranking of Cloud Services", National Conference on TRENDS IN IMAGING AND NETWORKING (TIN-2013), March., 13, 2013,pages-46.
4. Mrs Nithya.C and Mr K. Saravanan, Annotation and Retrieval of Services in the Cloud through Ontology, International Conference On Innovative Trends In Computing And Technology , pages 94-105, March 2014.
5. K.KARPAGAVALLI, Dr. K.SARAVANAN , A Framework for Dynamic Consumer Requirements in Cloud SLAs Management , Proceedings of International Conference on Current Trends in Engineering Research, Jan 2016, ISBN: 978-81-930654-5-3.
6. K.Saravanan & M.Arumugam , “ANDROID BASED PERFORMANCE ASSESSMENT SYSTEM FOR SCHOOL EDUCATION”, Proceedings of TEQIP-II Sponsored International Conference on Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT'2017), 24th – 25th, February, 2017, Puducherry, INDIA.
7. S. Selva Aswini, K.Saravanan , “BORDER ALERT FOR FISHERMEN BY SMART TRACKING USING GPS”, International Conference on Discrete and Computational Mathematics, ICDCM2017.

8. E. Anusuya, K.Saravanan, "REAL TIME DATA HANDLING IN SCADA SYSTEM USING MAP REDUCING ALGORITHM", ", International Conference on Discrete and Computational Mathematics, ICDCM2017.
9. Subha M , K.Saravanan , "Survey on Cloud Service Selection in Cloud Computing", First National Conference on Computing and Communication (NCCC'2014) , Anna University Regional Office, Tirunelveli, pp.253-258.
10. Uthaya Banu M , K.Saravanan , "Choosing Cloud Service Provider and Taxonomy of Infrastructure as a Service", First National Conference on Computing and Communication (NCCC'2014) , Anna University Regional Office, Tirunelveli, pp.259-262.

b. National Conferences:

1. Pandian, Saravanan. K; "Heterogeneous Data Integration on Semantic Web using Multi-Agent Ontology Matching Framework", National Conference on Communication Technology Interventions for Rural and Social Development (NCCTIRD – 2012), Bonfring, pages-508.
2. Saravanan K, Mahalakshmi G.S. and Geetha T.V ; "Design And Implementation Of An Ontology Based Approach To Automate Requirements Generation", National conference on Recent advances in computing, 2006.

DECLARATION:

I CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT TO THE BEST OF KNOWLEDGE AND BELIEF.

DATE:

Signature With date