

HINDUSTAN INSTITUTE OF TECHNOLOGY AND SCIENCE

DEPARTMENT OF INFORMATION TECHNOLOGY

FACULTY PROFILE



Name of the faculty member : Dr.Kavitha Esther Rajakumari
Present Designation : Assistant Professor (Selection Grade)
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Gender : Female
Community : BC

PAN Number : AXAPR4276J

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Date of joining the present post : 01/05/2020

I. Particulars of Educational Qualification: (*only completed*)

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained
Ph.D.	Ph.D	SOFTWARE ENGINEERING	OCTOBER 2017	SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY	SATHYABAMA	-
PG	M.E	COMPUTER SCIENCE	MAY 2005	SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY	SATHYABAMA	80
UG	B.E	COMPUTER SCIENCE	MAY 2003	CSI INSTITUTE OF TECHNOLOGY	MANONMANIAM SUNDARANAR UNIVERSITY	66

II. Title of Ph.D. Thesis : Study and detection of source code clones and their reuse

III. Faculty in which Ph.D. was awarded : Computer Science and Engineering

IV. Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE	AP(SG)	01.05.2020				
KCG COLLEGE OF TECHNOLOGY	AP(SG)	17.06.19	30.04.2020	1	2	
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY	AP	10.06.2005	30.05.2019	14		
Total				15	2	

V. Industrial Experience: nil

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
-							
Total					0		

VI. Research Interests : Software engineering, computer networks

VII. Publications :

International Journals:

1. Kavitha Esther Rajakumari, Dr.T.Jebarajan, "**Importance Of String Based Techniques In Clone Detection**", was published in International Journal on Recent Trends in Engineering and Technology, ISSN:2158-5563, Vol.5(1), pp:137-142, March 2011.
2. Deivanai K, Kavitha Esther Rajakumari, "**An efficient approach for tracking down the resilient identity sneak using spot**", International Journal of Applied Engineering Research, ISSN 0973-9769, Vol.No.9, pp: 20777-20788, 2014. - **Scopus, Google Scholar**
3. Kaudilyar R, Kavitha Esther Rajakumari, "**Intelligent parking system using cloud**", International Journal of Applied Engineering Research , ISSN 0973-9769, Vol.No.10, pp.no.7311 - 7317, 2015. - **Scopus, Google Scholar**
4. Angel Sweetly Sheeba, Kavitha Esther Rajakumari, "**Geo tagged query based on privacy location services with three levels of security**", Global Journal of Pure and Applied Mathematics, ISSN: 0973-9750, Vol.12 (1), pp: 733-740, 2016. - **Scopus**
5. Kavitha Esther Rajakumari, Dr.S.Srinivasan, "**Variation of Clones in Fingerprint Recognition Using Software Engineering Concept**", in the International Journal, Mitteilungen Klosterneuburg Journal, ISSN: 0007-5922, Vol.66(9), September 2016. - **WoS**
6. Deva Prakash, D., Rajakumari, K.E., Ganesh Ram, S, "**Software engineering development & reuse**", International Journal of Applied Engineering Research, Vol.11, No.8, pp. 5363-5368, ISSN 0973-4562, 2016. - **Scopus**
7. Kavitha Esther Rajakumari, "**A Novel Clone-Based Reuse Method to Maintain Proficiency in Software Engineering Practice**", International Journal of Engineering and Advanced Technology, ISSN: 2249-8958, Vol.9, Issue. 2, pp. 2558-2562, 2019. - **Scopus**
8. Dr.Kavitha Esther Rajakumari., M.Srinivasa Kalyan., M.Vijay Bhaskar, "**Forward forecast of stock price using LSTM machine learning algorithm**", International Journal of Computer Theory and Engineering, ISSN: 1793-8201, Vol.12(3), pp.74-79, DOI: 10.7763/IJCTE.2020.V12.1267, June 2020. - **UGC**

National Journals:

1. Kavitha Esther Rajakumari, Dr.T.Jebarajan, "**Detection of Cross-Project Beneficial Clones**", is published in Indian Journal of Computer Science and Engineering, ISSN: 0976-5166, Vol.5 (2), pp: 50-54, May 2014.
2. Kavitha Esther Rajakumari, Dr.S.Srinivasan, "**Software Development and Reuse Using Functional Clones**", is published in International Journal of Applied Engineering Research, ISSN 0973-9769, Vol.10 (5), pp. 13287-13295, April 2015. - **Scopus**

3. G. Mahalaxmi and Kavitha Esther Rajakumari, "**Multi-Agent Technology to Improve the Internet of Things Routing Algorithm using Ant Colony Optimization**", Indian Journal of Science and Technology, Vol. 10, No. 31, pp. 1-8, ISSN 0974-5645, 2017. – **WoS**
4. Dr.Kavitha Esther Rajakumari, "**A Study on Gratifying Interpersonal Needs in Employees for Progressive Economic Growth of Small – Scale Software Organizations by Using FIRO-B**", accepted to be published in the journal Test Engineering and Management 2020 (March-April). – **Scopus/UGC**

International Conferences:

1. Kavitha Esther Rajakumari, Dr.T.Jebarajan, "**A Conceptual Framework for Analyzing Code Clones in Software Engineering**", in the International Conference on Computer Science and Information Technology held in Pune conducted by the IRNet (Inter science Research Network) on 15th April, 2012.
2. Kavitha Esther Rajakumari, Dr.T.Jebarajan, "**A Novel Approach To Effective Detection And Analysis Of Code Clones**", in the Third International Conference on Innovative Computing Technology (INTECH 2013) held in London, UK conducted by IEEE from August 29th to 31st, ISBN: 978-1-4799-0048-0, pp:287-290, 2013. – **Scopus**
3. Kavitha Esther Rajakumari, Dr.S.Srinivasan,"**Role Of Functional Clones In Software Development**", in International Conference on Future Computational Technologies (ICFCT) held in Singapore on March 29th&30th, ISBN 978-93-84468-20-0, pp:41-47, 2015.
4. Priyanka, K., Rajakumari, K.E, "**Improving the spectrum aware mobility management in cognitive radio network**", 2017 International Conference on Information Communication and Embedded Systems, ICICES 2017 - **Scopus**
5. Asha, P., Rajakumari, K.E., Abhilash, R, "**2-Dimensional and 3-dimensional navigation**", IEEE International Conference on Power, Control, Signals and Instrumentation Engineering, ICPCSI 2017 - **Scopus**
6. Kavitha Esther Rajakumari, "**Comparison of Token-Based Code Clone Method with Pattern Mining Technique and Traditional String Matching Algorithms In-terms of Software Reuse**", Accepted in IEEE International Conference on Electrical, Computer, and Communication Technologies, ICECCT 2019 – **Scopus**
7. Kavitha Esther Rajakumari, "**Towards a novel conceptual framework for analyzing code clones to assist in software development and software reuse**", Accepted in Springer First International Conference in Advances in Electrical and Computer Technologies, ICAECT 2019 – **Scopus**
8. M Srinivasa Kalyan, Kavitha Esther Rajakumari, M Vijay Bhaskar, "**Survey on forward forecast of stock price using LSTM machine learning algorithm**", Accepted in 7th International Conference on Contemporary Engineering & Technology 2019 – **Scopus**
9. R Harsha Vardhan, K Vivek Swaroop, Kavitha Esther Rajakumari, "**Integration of two way communication using gesture control hand movements and voice based image representation**", Accepted in 5th International Conference on Science Technology Engineering & Mathematics, ICONSTEM 2019 – **Scopus**
10. B Shashank, B Koushik, Kavitha Esther Rajakumari, "**A system for disaster management using machine learning techniques**", Accepted in 5th International Conference on Science Technology Engineering & Mathematics, ICONSTEM 2019 – **Scopus**
11. Dr.Kavitha Esther Rajakumari, "**Towards A Novel Conceptual Framework for Analyzing Code Clones to Assist in Software Development and Software Reuse**", 2020 4th International Conference on Intelligent Computing and Control Systems (ICICCS), 13-15 May 2020, pp.105-111, DOI: 10.1109/ ICICCS48265 .2020.9120965, IEEE. - **Scopus**
12. Dr. Kavitha Esther Rajakumari, "**Improving Accuracy of Cancer Prediction with Feature Selection and Classifiers**", 10th International Conference on Science and Innovative Engineering, 29th March 2020.

National Conferences:

1. Kavitha Esther Rajakumari, Dr.T.Jebarajan, "**To Analyze Various Clone Detection Techniques** ", in the National Conference on Computing Concepts in Current Trends held in Sathyabama University conducted by the Department of MCA on 30th & 31st, pp:198-201, July 2010.
2. Kavitha Esther Rajakumari, Dr.T.Jebarajan, "**Code Clones Identification Using Efficient String – Matching Algorithms**", in the National Conference on Computer Science and Informatics conducted by Department of Computer Science and Engineering & Department of Computer Applications, Anna University of Technology, Madurai on 23rd

& 24th April 2012.

Book Chapter:

1. Dr. Kavitha Esther Rajakumari, "**A Novel Clone-based Reuse Method to Maintain Proficiency in Software Engineering Practice**", Emerging Trends in Engineering Research and Technology, Book Publisher International, Vol. 4, Chapter 5, June 2020.

It is certified that all the information provided are true to the best of my knowledge.

Signature of the Faculty