Dr. P. Radhika Raju

M.Tech., Ph. D

Assistant Professor (Ad-hoc)
Department of Computer Science and Engineering,
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Ananthapuramu – 515 002, Andhra Pradesh, India

Bio-data

Name	:	Dr. P. Radhika Raju
Parents	:	Late Sri SP. Krishnam Raju Smt. V. Sarojamma
Official Address	:	Assistant Professor (Adhoc) Department of Computer Science & Engineering, Jawaharlal Nehru Technological University Anantapur, Ananthapuramu – 515 002, Andhra Pradesh, Mobile: 091-99856- 11767
Residential Address	:	#18/1/542-B, Venugopal Nagar, Ananthapuramu – 515005.
E-mail	:	radhikaraju.p@gmail.com radhikarajup.cse@jntua.ac.in
Nationality	:	Indian
Religion	:	Hindu
Date of Birth & Place of Birth	:	8th March, 1977 Andhra Pradesh, India.
Aadhar No	:	6323-4568-1258

1. Educational Qualifications:

Course	Name of the Institution studied	Name of the University	Year of graduation	% of marks obtained	Division
SSC	LFMH School, ATP	Board of Secondary Education	1992	75.1	First
Intermediate /Diploma	PRR Junior College, ATP	Board of Intermediate Education	1994	67.7	First
B. Tech/B.E.	PVKK Degree College, ATP	SKU	1997	59.56	First
MCA	IGNOU Study Centre ATP	IGNOU	2003	64.45	First
M. Tech	JNTUA CEA	JNTUA	2009	83	First Class with Distinction
Ph.D.		JNTUA	2016	--	--

2. Details of Doctoral thesis:

Area   : Software Engineering

Title   : Methodology for Dynamic Program Invariants to Support Software Evolution

Supervisor   : Dr. A. Ananda Rao

Year of award of Ph.D   : 2016

Professional Experience   : **23 years**

3. Experience

Name of the employer/ Organization	Your Designation	Duration of Employment		Nature of Duties
		From	To	
MCRP University Study Centre, ATP	Lecturer	01-08-1997	04-08-1998	Teaching
Aptech Computer Education, ATP	Faculty	05-08-1998	30-06-2000	Teaching
PVKK Degree College, ATP	Lecturer	01-07-2000	31-08-2003	Teaching
KSN Degree College, ATP	Lecturer on contract basis	01-09-2003	10-04-2005	Teaching
Balaji PG College, ATP	Lecturer	01-09-2003	30-06-2005	Teaching
JNTUA CE, ATP	Adhoc Lecturer	01-07-2005	31-09-2007	Teaching
JNTUA CE, ATP	Adhoc Lecturer	12-12-2008	Continuing	Teaching & Research

Teaching Experience: **23 years**

Subjects Taught:

Undergraduate Courses	Postgraduate Courses
❖ Data Structures ❖ Software Engineering ❖ Software Testing Methodologies ❖ Software Architecture ❖ Software Project Management ❖ Design Patterns ❖ Object Oriented Analysis & Design ❖ Database Management Systems ❖ Data Warehousing and Mining	❖ Advanced Data Structures & Algorithms ❖ Advances in Software Engineering ❖ Software Quality Assurance and Testing ❖ Service Oriented Architecture ❖ Scalable Data Systems & Algorithms ❖ Software Maintenance and

❖ Service Oriented Architecture	Evolution
❖ Programming in C & Data Structures	❖ Software Metrics and Reuse
❖ Computer Organization	❖ Computer Graphics
❖ Operating Systems	❖ Data Warehousing and Mining
❖ Artificial Intelligence	❖ Computer Organization
	❖ Operating Systems
	❖ Principles of Programming Languages
	❖ Advanced Computer Architecture
	❖ Computer Networks
	❖ Distributed Databases
	❖ Machine Learning
	❖ Database Management Systems

❖ In addition, the laboratories of UG and PG programmes in the areas of Computer Science have been dealt with.

Research Interests:

Databases, Data Structures, Software Engineering and Service Oriented Architecture, Artificial Intelligence, Machine Learning.

Research Guidance:

- Guided **20** M.Tech projects, 1 projectis in progress
- Guided **4** B. Tech projects
- Guided **14** MCA projects, 2 projects are in progress
- Guiding **2** Ph.D Scholars

Research Publications:

16 papers are published in international conferences
01 paper published in national conference
25 papers published in international journals.

Professional Membership: IAENG, Life Member in CSI

Number of Seminars/Conference/Workshops attended : 25

Professional Services:

- Delivered lectures as an expert for Ph.D course work in JNTUA
- Coordinator for conducting various cources on Databases
- Delivered guest lectures in various engineering colleges
- Worked for BoS JNTUA, JNTUACEA
- Acted as judge for paper presentation in student symposium PIXEL in JNTUACEA
- Worked for NBA in CSE department, JNTUACEA
- Organizing committee member for workshops, seminars, FDPs, training programs etc., in CSE department, JNTUACEA

Book/Book Chapters:

S.No.	Title of Book/Chapter	Name of the Publication, edition and year	Book / Book Chapter
1	**Data Structures and Algorithms Using C++**	Ananda Rao Akepogu and Radhika Raju Palagiri, Pearson Education. 2010	**Book**

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4. Patents

S. no	Name of stream	Department	Obtained / filed	patent registered (National / Internati	patent title	patent type (Product/ Process)	Patent Number	Patent Grant Year	Amount (Rs)	Whether (institutional /joint)

| 1 | Computer Science and Engineering | Computer Science and Engineering | Filed | National | Multicore System for Reprocessing of Tasks | Process | 2018410 09115 A | 2018 | _ | Joint |

5. Research Guidance Provided

List of B. Tech Projects Guided

S.No	Admission No	Title of the Project	Year
1.	09001A0552 09001A0515	Addressing Scalability Issues in Client Side Load Balancer Using Cloud	2013
2.	12001A0519 12001A0536	KNN Classifier	2016
3.	13001A0556 13001A0554	Android App on Anantapur Tourism	2017
4.	14001A0536 15005A0503	Website for Event Booking	2018

List of M. Tech Projects Guided

S.No	Admission No	Title of the Project	Year
1.	09001D5221	Controlling Model Driven Test Cases Using GUI Feedback	2011
2.	10001D5223	Improving Regression Test Coverage Using Parse Tree	2012
3.	11001D5204	Fault Tolerant Concurrent Service Composition in Service Oriented Architecture	2013
4.	11001D5223	Prediction of Top Crashes in the Software Systems	2013

5.	14001D5204	Development of Service Oriented Situational Web applications using KDS.	2016
6.	14001D5220	Improvising the Quality of ARPT using Grefenstette method	2016
7.	15001D5107	A Graphical Data Fusion Approach for Mining Health Records.	2017
8.	15001D5135	Analysing the Performance and Scalability of Indexing Techniques.	2017
9.	15001D5217	Measuring Software Quality Using Micro Interaction Metrics.	2017
10.	16001D5101	Data Locality Aware Job Scheduling for Improving Performance of MapReduce.	2018
11.	16001D5207	Relevant Keyword Search for Building Service-Based System.	2018
12.	17001D5218	Automated Test Case Generation in Entity Reconciliation Applications.	2019
13.	17001D5210	Improving Efficiency of Quality Correlation in Query Using Spark.	2019
14.	17001D5203	Reduction of Search Space in RESTful Service Discovery.	2019
15.	17001D5215	A Test Case Generation for Boolean Expressions by Using Set and Cell Covering.	2019
16.	17001D5226	Improving the Quality of Recovered Architectures Using Weighted Dependencies.	2019
17.	17001D5409	Trust Value Calculation for Cloud Resources.	2019
18.	18001D5216	Enhancing Automated Testing Efficiency Using Code Based Features	2020
19.	18001D5117	Improvising Container Scheduling Using Genetic Algorithm	2020
20	18001D5206	Integrating MAPT and RAPT for Improving Adaptive Partition Testing Performance	2020

List of MCA Projects Guided

S.No	Admission No	Title of the Project	Year
1.	10001F0032	Credit Payment Processing System	2013
2.	12001F0032	Conjunctive and Geomorphic Testimonial of Friends Using Weblog-Based Social Network Analysis	2015
3.	12001F0047	Sleuthing Concept Drift Using Statistical Testing	2015
4.	11001F0025	Automation MNREGA Program	2016
5.	13001F0017	EATNOW	2016
6.	13001F0043	Water Management System	2016
7.	14001F0034	Automating Allotment of Invigilation Duties	2017
8.	14001F0055	National Parks of India.	2017
9.	15001F0027	Analyzing and Optimizing Spark Performance.	2018
10.	15001F0002	Big Data Technologies to Improve Human Life.	2018
11.	16001F0053	Collaborative Big Data Analytics	2019
12.	16001F0034	Performance Analysis of Read and Write Operations in HDFS	2019
13	17001F0010	Improvising the Bit Combination for Frequent item Sets	2020
14	18005F0064	Credit card fraud detection using naïve baye's and ANN	2020

List of Ph.D's under supervision

S. No.	Admission No.	Title of the Research Work	Research Status
1.	19PH0521	CPDP Model Based Novel Approach for Software Defect Prediction	Pursuing
2.	19PH0503	GJ Approach for NPC in RPG by Using Q-Learning and Apriori Algorithm	Pursuing

6. List of Publications

International Journals

2014

1. P.Radhika Raju, Dr. A. Ananda Rao, "Optimization of Program Invariants", **ACM SIGSOFT Software Engineering Notes**, Vol. 39, Issue 1, Jan. 2014.

2. P.Radhika Raju, Dr. A. Ananda Rao, "A Metrics Suite for Variable Categorization to Support Program Invariants", **International Journal of Software Engineering & Applications (IJSEA)**, Vol. 5, No.5, September 2014, pp. 65-83.

2016

1. Dr. P. Radhika Raju, et.al, "Development of Service Oriented Situational Web Applications using Knowledge Discovery", In IJARCSSE (International Journal of Advanced Research in Computer science and Software Engineering). Volume 6, Issue 9, sep-2016, **(UGC APPROVED AND THOMSON REUTERS INDEXED).**

2. Dr. P. Radhika Raju, et.al, " Ensemble Pruning of Internet Traffic Classifiers for Security Applications", In SAJET (South Asian Journal of Engineering and Technology).Vol.2, No.29 (2016) 4–8, , **(UGC APPROVED and SIS, ICI, DOAJ INDEXED).**

3. Dr. P. Radhika Raju, et.al," Detection of Code-Smells by Using Particle Swarm Optimization Technique (PSO)", In SAJET (South Asian Journal of Engineering and Technology). Vol.2, No.28 (2016) 10–13, **(UGC APPROVED and SIS, ICI, DOAJ INDEXED).**

4. Dr. P. Radhika Raju, et.al," Automation of Test Knowledge Reconfiguration for Web Services", In SAJET (South Asian Journal of Engineering and Technology). Vol.2, No.2 (2016) 1–4, **(UGC APPROVED and SIS, ICI, DOAJ INDEXED).**

2017

1. Dr. P. Radhika Raju, et.al, " Enhancing the Performance of Coverage-Based Techniques in Test   Case Prioritization" , In IJSRCSEIT (International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 2, Issue 5, ISSN : 2456-3307-2017, , **(UGC APPROVED JOURNAL AND ISI(THOMAS REUTERS) INDEXED).**

2. Dr. P. Radhika Raju, et.al, " An Objective Based Approach to Bug Report Summarization", In SAJET (South Asian Journal of Engineering and Technology),Vol.2, No.6, ISSN Number (online): 2454-9614,2017, **(UGC APPROVED and SIS, ICI, DOAJ INDEXED).**

2018

1. Dr. P. Radhika Raju, et.al, "Data Locality Aware Job Scheduling for Improving Performance of MapReduce", In IJCTT (International Journals of Computer Trends and Technology) Jul 2018, Volume 61, No.1, **(UGC APPROVED AND THOMSON REUTERS).**

2. Dr. P. Radhika Raju, et.al, " Relevant Keyword Search for Building Service-Based System", In IJCSE (International Journals of Computer Science and Engineering) Volume 6, Issue.7,pp.111-116,2018, **(UGC APPROVED and INDEXED WITH DOI, ICI and APPROVED, DPI Digital Library).**

3. Dr. P. Radhika Raju, et.al, "Partitional Based Clustering Algorithms on Big Data using Apache Spark", In IJSRCSEIT (International Journals of Scientific Research in Computer Science, Engineering and Information Technology).Volume 3. Issue 5, May-06-2018,**(UGC APPROVED JOURNAL AND ISI(THOMAS REUTERS) INDEXED).**

2019

1. Dr. P. Radhika Raju, et.al, "Automated Test Case Generation in Entity Reconciliation Applications", In IJAEMA (The International Journal of Analytical and Experimental Modal Analysis) August 2019, Volume XI, **(UGC CARE GROUP A JOURNAL AND ISI INDEXING)**.

2. Dr. P. Radhika Raju, et.al, "Improving Efficiency of Quality Correlation in Query Using Spark", In IJSRCSEIT (International Journal of Scientific Research in Computer Science, Engineering and Information Technology) July 2019, **(UGC APPROVED AND THOMSON REUTERUS INDEXING)**.

3. Dr. P. Radhika Raju, et.al, "Reduction of Search Space in RESTful Service Discovery", In IJRCSEIT (International Journal of Scientific Research in Computer Science, Engineering and Information Technology) July 2019, **(UGC APPROVED AND THOMSON REUTERUS INDEXING)**.

4. Dr. P. Radhika Raju, et.al, "A Test Case Generation for Boolean Expressions by Using Set and Cell Covering", In IJAEMA (The International Journal of Analytical and Experimental Modal Analysis) August 2019, **(UGC CARE GROUP A JOURNAL 0AND ISI INDEXING)**.

5. Dr. P. Radhika Raju, et.al, "Trust Value Calculation for Cloud Resources", In IRJET (International Research Journal of Engineering and Technology) July 2019, **(UGC APPROVED AND THOMSON REUTERUS INDEXING)**.

6. Dr. P. Radhika Raju, et.al, "Improving the Quality of Recovered Architectures Using Weighted Dependencies", In IJAEMA (The International Journal of Analytical and Experimental Modal Analysis) August 2019, **(UGC CARE GROUP A JOURNAL AND ISI INDEXING)**.

2020

1. Dr. P. Radhika Raju, et.al, "System Architecture and Development using Spark for Effective Resource Management in NAWEC Ltd., The Gambia"", In IJAEMA (The International Journal of Analytical and Experimental Modal Analysis) June 2020, **(UGC CARE GROUP A JOURNAL AND ISI INDEXING)**.

2021

1. Dr. P. Radhika Raju, et.al, "Enhancing Automated Testing Efficiency Using Code Based Features", In IJAEMA (The International Journal of Analytical and Experimental Modal Analysis) February 2021, **(UGC CARE GROUP II JOURNAL AND SCOPUS INDEXING)**.

2. Dr. P. Radhika Raju, et.al, "Improvising Container Scheduling Using Genetic Algorithm", In IJFGN (International Journal of Future Generation Communication and Networking) March 2021, **(UGC CARE GROUP II JOURNAL AND WEB OF SCIENCE)**.

3. Dr. P. Radhika Raju, et.al, "Integrating MAPT and RAPT for improving Adaptive Partition Testing Performance", In IJAEMA (The International Journal of Analytical and Experimental Modal Analysis) February 2021, **(UGC CARE GROUP II JOURNAL AND SCOPUS INDEXING)**.

4. Dr. P. Radhika Raju, et.al, "Finding Design Faults in SPARK Applications using Automatic Testing Techniques", In IJAEMA (The International Journal of Analytical and Experimental Modal Analysis) August 2021, **(UGC CARE GROUP II JOURNAL AND SCOPUS INDEXING)**.

National Conferences

1. P. Radhika Raju and A. Ananda Rao,"Categorization of Program Invariants to Support Software Evolution" at the **National Conference on Software Engineering (NCSOFT-13)**, Cochin University of Science and Technology, Cochin, India, 13-14 August, 2013.

International Conferences

2009

1. Smt. P. Radhika Raju, Dr.A. Ananda Rao, " An Efficient Technique for Improving Dynamic program Invariant Detection Tools", **An International conference on Operations Research Applications in Engineering and Management (ICOREM)**, May 27-29, 2009. At ANNA University Tiruchirapalli, Tamilnadu.

2011

1. Smt. P. Radhika Raju, R. Mary Lilly, "Controlling Model Driven Test Cases Using GUI Feedback", An **International Conference on Computational vision and Robotics (ICCVR 2011)** 14th – 15thAugust, 2011. Bhubaneswar, Orissa.

2013

1. P.Radhika Raju and A. Ananda Rao, "Technique to Support Dynamic Invariant Detection", **International Conference on Advanced Computing Methodologies** (ICACM-2013), 02-03 August, 2013, GRIET, Hyderabad.

2014

1. Smt. P. Radhika Raju, has participated in "**India Software Engineering Conference**" **ISEC**'14, 19-21 Feb. 2014, IITM, Chennai.
2. Smt. P. Radhika Raju, participated in **"International Conference on Software Engineering"** 2014 (ICSE 2014) from 31st May to 7th June 2014 at HICC, Hyderabad.

2015

1. K. Sandhya, A. Ananda Rao and P.Radhika Raju, "Evaluation of Cost and Effort Indicators for Combined Selection of MBT Techniques", **International Conference on Computing (NECICC-2K15)**, 13-14 August, 2015, NEC, Narasaraopet.
2. K.D.Chandran, A. Ananda Rao and P.Radhika Raju, "An Objective Based Approach toBug Report Summarization**", International Conference on Computing (NECICC-2K15)**, 13-14 August, 2015, NEC, Narasaraopet.
3. M. Sreenivasulu, A. Ananda Rao and P.Radhika Raju,"Advanced Technology in Kannada to Telugu Translation by Using Transfer Based Method: An Accurate Approach", **International Conference on Computing (NECICC-2K15)**, 13-14 August, 2015, NEC, Narasaraopet.

2016

1. Dr. P. Radhika Raju, et.al., "Task Reprocessing on Real-time Multicore Systems", In ICIA (International Conference on Informatics and Analytics). Pondicherry Engineering College, Pondicherry, 25-26 August-2016, **(UGC APPROVED AND SCOPUS INDEXED, ESCI).**

2. Dr. P. Radhika Raju, et.al.,"Ensemble Pruning of Internet Traffic Classifiers for Security Applications", International Conference on Computing (NECICC-2K16). NEC, Narasaraopet, 21-22 October, 2016. (**UGC APPROVED and SIS, ICI, DOAJ INDEXED).**

3. Dr. P. Radhika Raju, et.al," Automation of Test Knowledge Reconfiguration for Web Services",International Conference on Computing (NECICC-2K16). NEC, Narasaraopet, 21-22 October,2016, (**UGC APPROVED and SIS, ICI, DOAJ INDEXED).**

4. Dr. P. Radhika Raju, et.al, " Detection of Code-Smells by Using Swarn Optimization Technique(PSO)", **International Conference on Computing (NECICC-2K16)**, NEC, Narasaraopet, 21-22 October, 2016, (**UGC APPROVED and SIS, ICI, DOAJ INDEXED).**

5. Dr. P. Radhika Raju, et.al, " Strengthening the Proof of Retrievability with Secure Public Auditing in Cloud Computing", **2nd International Conference on Applied Science Engineering and Technology (ICASET-2016)**. Swetha Institute of Technology and Science Tirupati, 18-19 October, 2016. (**UGC APPROVED and SPRINGER PUBLISHER, SCOPUS INDEXED).**

6. Dr. P. Radhika Raju, et.al," Reinforcement Learning by case based reasoning through self organized neural networks", **International Conference on Advanced Computing and Communications (ICACC-2016)**. Rajagiri School of Engineering & Technology, Kochi, 20-22 October, 2016, (**UGC APPROVED AND SCOPUS INDEXED).**

7. Dr. P. Radhika Raju, et.al," XRTSDIC: Towards a Flexible and Scalable Framework for Detecting and Tracking Software Design Inconsistencies",**First A.P. Science Congress**. IT Computer & Engineering Sciences, 21-23 January, 2016, (**GOOGLE SCHOLAR, INDEXED).**

2018

1. Dr. P. Radhika Raju, et.al, "Experimental Evaluation of Task Reprocessing on Large-Medium Scale Multicore Systems", In ICIIC (International Conference on Integrated Intelligent Computing, Communication & Security).SJB Institute of Technology, Published by AISC Series of (**UGC APPROVED AND SPRINGER, Indexed in SCOPUS, DBLP)**, Bangalore, India (Jan-2018).