

Coimbatore Institute of Technology
Department of Computer Science and Engineering



Faculty Profile

Name : Dr.R.Prabhakar
Department : CSE
Designation : Professor
College : Coimbatore Institute of Technology
E-mail id : secretary@cit.edu.in
Qualification



S. No.	Degree	Specialization	Year of Passing	Institution	University	Class
1	Ph.D	Control Systems	1975	Purdue University	Purdue University	5.85/6.0
2	M.S	Mechanical Engineering	1970	Oklahoma State University	Oklahoma State University	I Class 3.85/4.0
3	B.Tech	Mechanical Engineering	1969	Indian Institute of Technology, Madras	-	I Class 73.5% (9 th Rank)

Academic and Industry Experience:

Name and address of the Institution / Organization	Post Held	Duration		
		Year	Month	Day
Coimbatore Institute of Technology	Assistant Professor	11		
Coimbatore Institute of Technology	Professor	31		
Coimbatore Institute of Technology	Principal	13		
GM Research Labs	Research Engineer	1		
Kasbah Systems Software	Consultant	31		
Total		56		

Title of Ph.D. Thesis/PG Project : Optimal and suboptimal control of automobile emissions

Faculty in which Ph.D. was awarded : Nil

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Area of Specialization/Research Interest: Control, Instrumentation, Data Structures and Artificial Intelligence

Research Guidance

No. of Ph.D. Completed	No. of Thesis Submitted	No. of Scholars Pursuing Ph.D.
4	5	1

Research and Consultancy Projects

S. No.	Name of Agency	Title of Project	Total Amount in Rs.	Period of Support	Year
1	US Olympic team	Drag minimization of a rowing boat	-	-	1975
2.	Kasbah System Software	Optimal clustering	-	-	1987-2005

Publications: (International Journals / National Journals / Conferences)

Publications										
	Year wise count									
	2017-2018	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012	2010-2011	2009-2010	Total
International Journals	-	2	1	4	-	1	-	-	1	9
International /National Conferences	-	1	-	-	-	-	-	-	1	2
Book Chapters	-	1	-	-	-	-	-	-	-	1

Scopus Citations

Coimbatore Institute of Technology

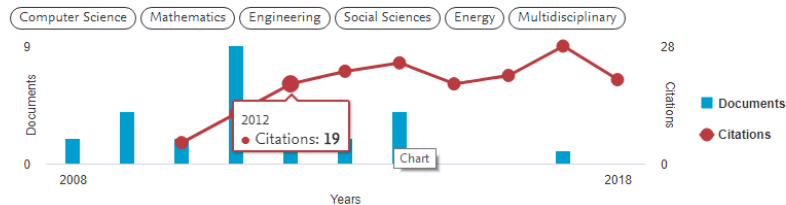
Department of Computer Science and Engineering



Prabhakar, Ramya

Coimbatore Institute of Technology, Department of
Computer Science and Engineering and Information
Technology, Coimbatore, India
Author ID: 24554260300
Other name formats: Prabhakar, R.

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Total citations

170 by 160 documents

Refereed Book Chapter Publication details

- 1 E-Auto scheduling: Driving innovation towards efficient decision-making-A case study approach
2. Resource allocation under multiple goals: a case study in a textile mill

International Journals Publication details

1. "Influence of krylov subspace in graph isomorphism for mobile networks", T.Ramraj, R.Prabhakar, Mobile Network Applications – Springer, 1383-469X, 2017.
2. "Harmonizing Real Time Data Using Maximum Weighted Graph Matching", R.Pavithra, Dr.R.Prabhakar, published journal paper in International Journal of Advance Engineering and Research Development (IJAERD), Volume 04, Issue 04, April 2017, paper no 148 and page no 969-976.
3. "Hybrid Optimization of SVM for improved non-functional requirements classification", K. Mahalakshmi and R.Prabhakar, International Journal of Applied Engineering Research, 2015,ISSN : 0973-4562.vol.no.20.pages 20157-20174.
4. "Optimizing Support Vector Machine for Classifying Non Functional Requirements",K. Mahalakshmi, R. Prabhakar and V. Balakrishnan, "Research Journal of Applied Sciences, Engineering and Technology",vol.7 Issue 17,Pages 3643-3648, 2014 (ISSN: 2040-7459; e-ISSN: 2040-7467).
5. "Kernel Optimization For Improved Non-Functional Requirements Classification", K.Mahalakshmi, Dr. R.Prabhakar And V. Balakrishnan, "Journal Of Theoretical And Applied Information Technology",10th February 2014. Vol. 60, No.1(ISSN: 1992-8645).
6. "Performance Evaluation of Non Functional Requirements",K. Mahalakshmi& Dr. R. Prabhakar, "Global Journal of Computer Science and Technology,Software& Data

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- Engineering", Volume 13 Issue 8 Version 1.0 Year 2013, (Online ISSN: 0975-4172 & Print ISSN: 0975-4350).
7. "Efficient Methodology of improving the CDIS for text retrieval with an effective algorithm for detection of spam mails using Thread-cluster", Mr.M.Basavaraju and Dr.R.Prabhakar, "International Journal of Computer Science Engineering and IT (IJCSEITR)", Vol.-1, Issue 2, Dec 2011 (ISSN - 2249-6831-print).
 8. "An redefined Discrete Quasi-Sliding Mode strategy", C.Vivekanandan, Dr.R.Prabhakar and M.Gnanambigai, ICGST-ACSE, July-2008.
 9. "Identification of coastal erosion / accretion using digital image processing", A.N.SenthilVel and Dr.R.Prabhakar et.al, Far East Journal of Ocean Research, Vol.-1, Issue 1, pp. 49-61.
 10. "Stability analysis of a class of non-linear systems using Discrete variable structures and sliding mode control", C.Vivekanandan, Dr.R.Prabhakar and D.Prema, International journal on Computational Intelligence, 2008.
 11. "Hidden Markov Model based Recognition of hand-written Tamil characters", R.Jagadesh Kumar and Dr.R.Prabhakar et.al, "Recent Progress in Scientific Computing", Scientific Press, Beijing, 2007.
 12. "Goal programming for man power planning in a textile mill", C.M.K.Selvaraj, R.Prabhakar, S.R.K.Prasad, Asia pacific journal of Operations Research, Singapore, May 1985
 13. "Optimisation of Engine Fuel economic and emissions", R.Prabhakar, R.E.Goodson, and S.J.Citron, paper presented at the ASME winter annual meeting Houston, Texas, USA Nov 1975
 14. "Optimisation of engine efficiency and emissions" - R.Prabhakar, R.E.Goodson and S J Citron, paper presented at the "Engine Control Workshop", organized by US Department of Transportation, Transportation system Center, Boston, Mass, July 1975

International Conference Publication details

1. "Object Localization in 3D space for Visual Sensor Network Applications", S.Ahalya and Dr.R.Prabhakar, 2nd International Conference on Advanced Technologies For Research & Product Development (ICATRPD - 2016), page no:253-256, ISBN 978-1-941505-49-6, 21 & 22 April, 2016.
2. "An redefined Discrete Quasi-Sliding Mode strategy", C.Vivekanandan, Dr.R.Prabhakar and M.Gnanambigai, ICGST-ACSE, July-2008.
3. "A redefined Discrete Quasi-Sliding Mode strategy", C.Vivekanandan and Dr.R.Prabhakar, "International Joint Journal Conference in Engineering", 2009

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4. "Diagnostic and Forensic Analysis of Processes on a remote Linux machine", T.Ramraj and Dr.R.Prabhakar, "International Conference on Sensors, Security", Software and Intelligent Systems, CIT, 2008.
5. "Gaussian process based Discrete-Time sliding Mode Controllers", C.Vivekanandan, Dr.R.Prabhakar, "International Review of Automatic Control", Vol.-1, 2008.
6. "Modeling of Coastal erosion and accretion of remotely sensed data", A.N.Senthilvel, Dr.R.Prabhakar et.al, "International Conference on Innovative and smart structural systems for sustainable habitat", January-2008, CIT.
7. "Quantum query complexity to determine Radius of a Graph", S.Manjula Gandhi and Dr.R.Prabhakar, "International Conference on Quantum Information", Institute of physics, Bhubaneswar, Orissa, March-2008.
8. " Syntax and Semantic Analysis of Sentences Using Association Rules without Candidate Generation" presented in "National Conference on Current Trends in Computer Technology - NCCTCT" held during February 10-11, 2006, conducted by SRM engineering College, Chennai by A.Kunthavai, Dr.R.Prabhakar
9. "A Discrete Quantum Walk Algorithm" presented in "National Conference on Current Trends in Computer Technology - NCCTCT" held during February 10-11, 2006 , Conducted by SRM engineering College, Chennai Manjula Gandhi, Dr.R.Prabhakar
10. "Ant Colony Optimization for DNA sequence alignment" presented in "National Conference on Current Trends in Computer Technology - NCCTCT" held during Feb 10-11 2006, conducted by SRM engineering college, Chennai by A.Kunthavai, Dr.R.Prabhakar
11. "Election Campaign using Digital Image Processing" presented in National Conference on Intelligent Integrated control and Automation - IICA2006" held during Feb 10-11, 2006, conducted by Coimbatore Institute of Technology, CBE - 14 by A.N.Senthilvel, Dr.R.Prabhakar
12. "Performance analysis of Quantum Search algorithms for solving Element Dirtiness Problem" presented in National Conference on Intelligent Integrated control and Automation - IICA2206" held during Feb 10-11 2006, conducted by Coimbatore Institute of Technology, CBE-14
13. "Performance of DNA Sequence analysis" presented in " National Conference on Intelligent Integrated control and Automation -IICA2006" held during Feb 10-11 2006, conducted by Coimbatore Institute of Technology, CBE-14
14. "Identification of coastal erosion and erosion using Digital Image Processing" presented in International conference on Sustainable Technologies For Environmental Protection - ICSTEP2006" held during the period 7-9, Jan 2006 conducted by Coimbatore Institute of technology, Coimbatore-14 by A.N.Senthilvel, Dr.R.Prabhakar, Sathyanarayana Sridhar, Dr.K.Elangovan.

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15. Optimal cotton mixing”, C.M.K.Selvaraj, R.Prabhakar, S.R.K.Prasad, ORSI convention, Kanpur, India, Dec 8-10, 1993
16. “OR, AI and micros - paper presented at AITA,1991, the first national conference on AI technology and applications, University of Kuala Lumpur, Malaysia, August 1991
17. “OR and Rule based expert system”, R.Prabhakar, S.R.K. Prasad, OR and social science, edited by M.C.Jackson, et-al, Plenum publishing corp, USA, 1989
18. “Resource allocation under multiple goals - a case study in a textile mill”, C.M.K.Selvaraj, R.Prabhakar, S.R.K.Prasad, Operations research conference, Jan 1984, London

Membership in Professional bodies

- ❖ Correspondent to SVRM College, Nagaram, Andhra Pradesh (2016-present)
- ❖ President - ACM Coimbatore Chapter (2018 - present)
- ❖ Trustee V.Rangasamy Naidu Educational trust (2011 - present)
- ❖ Secretary SVRM Society, Nagaram (2016-present)
- ❖ Governing Council Member of Sri Shakthi Engineering College (2005-present)
- ❖ Governing Council Member of Dr.NGP College of Engineering and Technology (2007-present)
- ❖ Chairman of Board of Studies in Computer Science and Engineering and Member Academic Council of Bharathiar University for a period of 3 year s(1998-2000)
- ❖ Developed Software Packages in Engineering applications which are sold in India and abroad for Kasbah System Software (1987-2016)
- ❖ Chairman of Computer Society of India , Coimbatore Chapter in 2000-2001
- ❖ Chairman Indian Welding Society, Coimbatore Chapter 2002 - 2005
- ❖ Member and Coordinator of several commissions of AICTE, Anna University and Bharathiar University
- ❖ Secretary Tamil Nadu part-time B.E/ B.Tech. Degree course Entrance (1998 - 2005)
- ❖ Syndicate Member of Anna University for 5 years (2005 - 2010)
- ❖ Member of search committee for Vice Chancellor of Anna University of Technology, Coimbatore (2010)
- ❖ Outstanding Engineer 2010 of IE - Coimbatore Chapter
- ❖ Former member, Board of Studies, Information & Communication Engineering, Anna University (2002-2009)

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- ❖ Former member, Academic Council of Anna University (2005-2010)
- ❖ Expert member AICTE Scrutiny Committee Meeting on 22-04-2013.
- ❖ Member of AICTE Inspection and Scrutinize research proposals, 21st March 2016
- ❖ Contributed a chapter “e-AUTO SCHEDULING – DRIVING INNOVATION TOWARDS EFFICIENT DECISION MAKING – A CASE STUDY APPROACH” in the upcoming book titled “Innovations in E-Systems for Business and Commerce” to be published by AP-CRC-Taylor & Francis, June 2016

Teaching Responsibilities

- Data Structures and Algorithms
- Introduction to Compiler Design
- Robotics
- Control Systems
- Machine Learning
- Linear Systems

Institutional and Departmental Responsibilities

- ❖ Brought the first Computer to CIT in 1981 Started First Computer Education courses at Coimbatore in 1981
- ❖ Guided several projects in Post Graduate Diploma in Operations Research, Electrical & Mechanical Engineering.
- ❖ Started the Computer Science and Engineering Department at CIT in 1986
- ❖ Principal of CIT from 1996 – 2009
- ❖ Instrumental in bringing CIT in top 25 technical Institutes in India in 2005-2009

Invited Talks

Several institutions