

PROFILE

Name : **SUDHA M**

Date of Birth : **18th June 1972**

Qualification : **BCA, MCA, PhD**



Academic Details

Qualification	Board / IIT / University	Institute and place where studied	Year of passing	Class & % Marks
PhD	VTU, Belgaum	Research Center - RV College of Engineering,	2020	--
Master of Computer Applications	Indira Gandhi National Open University, New Delhi	Bangalore Institute of Technology, Bangalore (Study Center)	2010	65% First Class
Bachelor of Computer Applications	Indira Gandhi National Open University, New Delhi	B.M.S. College of Engineering, Bangalore (Study Center)	2008	66% First Class
Diploma in Computer Science & Engineering	Directorate of Technical Education	Nadgir Polytechnic	1991	64% First Class
SSLC	KSSE Board	B.E.L. School, Bangalore	1988	60% First Class

Work Experience

Place	Year	Designation
Acharya Institute of Graduate Studies, Bangalore	2021 – Till Date	Assistant Professor and Head of the Department, MCA
R V College of Engineering, Bangalore	2010 – 2015	Assistant Professor
R V College of Engineering, Bangalore	2000 – 2010	Programmer
M S Ramaiah Institute of Management, Bangalore	1999 – 2000	Technical Assistant
University Visvesvaraya College of Engineering, Bangalore	1992 – 1995	Programmer

Details of Research Work:

Research Area	:	Cloud Computing
Research Topic	:	Development of Efficient Fault Tolerant Methods and Practices for Cloud Computing Environment
University	:	Visvesvaraya Technological University, Belgaum
Year of Completion	:	2020

Research work Outline:

The major contributions pertaining to research work are, conceptualization of the Light weight (LWaaS) Stack for low-end commodity hardware and its implementation using free software solutions. New Methods to address fault tolerance system include Virtual Machine Provisioning Method based on modified first come first serve mechanism for policy based provisioning and Task Scheduling Method based on a modified round robin mechanism for handling application deployment requests. The novel approach of deriving policies for fault tolerance has been adopted by using cloud computing patterns. These policies enable fault detection and prevention at various levels like node, virtual machine creation and application deployment. Identification and implementation of best practices to keep the system failure resilient, light weight and increase hardware reusability for the proposed private cloud.

RESEARCH AND DEVELOPMENT:**Publication Details**

Book Chapter: International: 01

Journals: International: 06 National: 01

Conferences: International: 04 National: 02

Citations: 19 h-Index: 2 i-Index: 1

Book Chapter

1. "Business Transformation through Cloud Computing in Sustainable Business", Business Transformation and Sustainability through Cloud System Implementation, IGI Global, USA, 2015, pages 44-57, doi:10.4018/978-1-4666-6445-6IGI Global, September, 2014. Copyright © 2015.

International Journals

1. "Fault Tolerant Policies for Resilient Private Cloud Environment", International Journal of Engineering and Advanced Technology, Vol-9 No. 2, Dec 2019
2. "Proactive Fault Tolerance Policy for VM Management in Private Cloud Environment", International Journal of Engineering and Advanced Technology, Vol-9 No. 2, Dec 2019
3. "A Novel Fault Tolerant Approach Using Patterns for Private Cloud Environment", International Journal of Computer Science and Information Security, July Vol 17 No.7, 2019.
4. "Performance Analysis of Linux Containers - An Alternative Approach to Virtual Machines",

International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 1, January 2014 ISSN: 2277 128X, pp 820-824

5. "Scalable Databases for Data Intensive Application", Communication in dependability and Quality Management , An International Journal, published by The Research Center of Dependability and Quality Management, P.O Box 132, 32102, Cacak, Serbia, www, dqmcenter.com, Vol 16, No.1, March 2013, ISSN 1450-7196, pp64-72.
6. "Performance Analysis Of Kernel-Based Virtual Machine", International Journal of Computer Science & Information Technology (IJCSIT) Vol 5, No 1, February 2013, Pg. 137-144

National Journal

1. "Security Issues in Cloud Computing", World Journal of Science and Technology, Vol 2, No.5 May (2012), Pg. 111-113, Online ISSN: 2231-2587.

International Conferences

1. "Scalable Databases for Data Intensive Applications", Proceedings of International Conference on Future Computing - ICFC 2012, R V College of Engineering, Bangalore, Dec 20-22, 2012, Pg. 204-212. ISBN : ISBN 918-3-12-412456-5
2. "Security Challenges in the Cloud Computing Environment", Proceedings of International Conference on Communication, Computation, Management and Nano Technology, REC Bhalki, Karnataka, India, September 23-25, 2011.
3. "Importance of Women Education In Present Social Scenario" IEEE – GCC under Women in Engineering, Science and Technology Forum 2011 Wiestf 2011, Dubai, UAE, 19-22 Feb, 2011.
4. "Education System in India-Challenge to Change or Perish", proc, International Conference on Convergence of Science and Engineering in Education and Research, A Global Perspective in the New Millennium, Dayanand Sagar College of Engineering, Bangalore, 22-24 April, 2010.

National Conferences

1. "A survey on building Cloud Computing Environment using Free and Open Source Solutions", the National Conference on Computational and Mathematical Sciences (computatia-iv,2014), 25th -26th November, 2014 at VIT Jaipur
2. "Visualizing Cloud Computing from a User Perspective", Proceedings of National Conference on "New Advances in Computer and Communications (NACC 2010)" MVJ College of Engineering, 17th April 2010, Bangalore, pp 08.
3. "Education and Skill Training an Adoptable Strategy for Woman's Empowerment", Proceedings of XXXI Indian Social Science Congress, Indian Academy of Social Science, India, 27th – 31st December, 2007, SNDT Women's University, Mumbai.

Session Chair:

1. International Conference on Mobile Networks and Wireless Communications, Organized by Siddhartha Institute of Technology, in association with IEEE Bangalore Chapter, Tumkuru, on 2nd Dec, 2022

Reviewer:

1. Advancement in Electronics and Communication Engineering, Sponsored by AICTE, organized by Rajkumar Goel Institute of Technology, Ghaziabad, on 14-15 July, 2022
2. International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics, BNM Institute of Technology, Bangalore, to be held on 27-28 Jan 2023

Faculty Development Programs Attended

1. Attended one day workshop on "Building Real Time [IoT] Applications Using Open Source ZettaJS" on 17th April 2015.
2. Attended 3-Day Workshop on NS2 from 25th-27th July, 2014, in the department of MCA, RVCE.
3. Attended a "Three Days Workshop on Research Methodology and Latex", organized by Visveswaraya Technological University, from 08th-10th July, 2014, at Visveswaraya Technological University Campus, Belgaum, Karnataka, INDIA.
4. Attended Indo-Taiwan International Workshop on "Cloud Computing and its Applications" on 7th & 8th Nov, 2014, Jointly organized by CDAC-Bangalore and NARLabs, Taiwan, at Hotel Atria, Bangalore
5. Attended a Seminar on "Recent Trends and Challenges in Current Computing Environments", 14th Jul, 2012, Dept. of MCA, RVCE, Bangalore.
6. Attended Faculty Development Workshop on "Joy of Teaching Computer networks" from 28th Jun- 30th Jun, 2012 at PESIT, Bangalore.
7. Attended Advanced Faculty Training Programme "Think Parallel : Parallel Programming for Scientists and Engineering", from 2nd Jan - 12th Jan, 2012 at Center for Development of Advanced Computing-CDAC", Knowledge Park, Bangalore.
8. Attended CISCO CCNA Instructor Training Module 1 & 2, at R V College of Engineering, 23rd – 28th May 2011 and 20th – 25th June 2011, Bangalore.
9. National workshop on "Cloud Computing" at Center for Development of Advanced Computing-CDAC, Knowledge Park, Bangalore on 23rd May, 2011.
10. National workshop in "Documentation using LaTeX", 27th and 28th January, 2010 at Reva Institute of Technology, Bangalore
11. Workshop on "Managing and Securing Computer Labs with Free / Open Source Software", 18th - 20th Jan 2010 at Department of MCA, RVCE.
12. Hands on workshop on "Python", 14th - 15th Nov, 2008. Department of MCA, RVCE, Bangalore
13. Training program on "Success Builder", 15th -16th Jan, 2009, Dept. of Placement & Training, RVCE
14. Training on IDenizen Software, 30th June - 4th July, 2006 at IDenizen Smartware Pvt. Ltd., Bangalore
15. Workshop on Device Driver Development on Multi Platforms, on 11th & 12th Feb 2005 at NMITE, Nitte
16. Workshop on IBM Cloudscape, at IITB, Bangalore, from 3rd - 5th January 2005

Workshops/Conferences/Seminars Attended

1. Attended 2-Day conference “RootConf-2014-Automating Server Configuration for Cloud Deployment using Open Source Tools” Organized by Has-geek, on 16th and 17th May, 2014 at MLR Convention Center, Brigade Millennium Campus, Bangalore
2. Attended “Cloud Enabled Summit-2014” on 9th April, 2014, at Netmagic Solutions Pvt Ltd, BTM Layout, Bangalore, Karnataka
3. Attended one-day seminar on “OTN Cloud Application Foundation Developer Day” organized by Oracle on 11th March, 2014 at Taj Vivanta, Bangalore
4. Attended a 3-Day Workshop on “Autonomic, Cloud and Green Computing” [ACGC-2014] 6 - 8 February, 2014 jointly Organized by Departments of Computer Science & Engineering, Information Science & Engineering and Master of Computer Applications R.V.C.E.
5. International conference on “Advanced Cloud Computing “ (ACC 2012), 27th – 28th July 2012, Hotel Lalit Ashok, High Grounds, Bangalore – 560 001.
6. Tutorial Session during International conference on “Advanced Cloud Computing“ (ACC 2012), 26th July 2012, Hotel Lalit Ashok, High Grounds, Bangalore – 560 001.
7. International Conference on Women in Engineering, Science and Technology Forum 2011 WIESTF 2011, Dubai, UAE, 19-22 Feb, 2011.
8. International Conference on “Convergence of Science and Engineering in Education and Research, A Global Perspective in the New Millennium”, 22-24 April, 2010, Dayanand Sagar College of Engineering, Bangalore.
9. National Conference "New Advances in Computer and Communications" (NACC 2010) 17th April, 2010, MVJ College of Engineering, Bangalore
10. International Conference on Harnessing Entrepreneurial Potential of Women for Economic Growth”, 22nd – 24th Jan, 2009, Manipal Institute of Management, Manipal.
11. National Conference on Intelligent Models for Data Processing and Management, 2nd – 3rd May, 2008
12. Seminar on Microsoft .Net Technology, at MSRIT, Bangalore during Jan, 2002.

Courses/Workshops Conducted:

1. Course on “Unix Operating System” for MCA Students, was conducted for the Office Staff of RVCE from 7th - 10th Jan, 2005
2. 3-Day training on “Computer Fundamentals and MS Office Tools” was conducted for the Office Staff of RVCE from 7th - 10th Jan, 2005
3. Workshop on “Oracle 8.0, Forms 6 & Reports 6”, was conducted for the students and Staff Four times from November 2001 to April 2005
4. “Oracle, Visual Basic and D2K”, was covered as a part of the Diploma in IT program for the students of Kon yang University (South Korea) from Jul-02 to Aug-02. Prepared course material.
5. Workshop on “Basic Computer Awareness and Skills” for the Technical Staff of RVCE from 25th - 27th Feb 2001

Academic Responsibilities

1. Subjects Handled: Introduction to Unix, Business Data Processing using COBOL, Computer Networks, Management Information Systems, Operating Systems, Introduction Web Technologies, Database Management System, Cloud Computing, Java Programming

2. Lab in charge for Unix Programming Lab, Cobol Programming Lab, Database Lab, Web Programming Lab, Java Lab, Computer Networks.
3. Mentor for I year MCA for the academic year 2010-11 (ODD & Even) and 2011-12 (ODD)

Administration and Others:

1. Governing Council Member, Acharya Institute of Graduate Studies,, 2022
2. Head of the Department of Master of Computer Applications, AIGS
3. Outcome Based Education- implementation committee coordinator at AIGS, 2022
4. Alumni Coordinator in the department from 2012- 2015
5. Coordinated in setting up CTS Open-Source Lab in the department of MCA, RVCE
6. Member of Technical committee (Systems Group) at RVCE
7. Department Level and College Level coordinator for AICTE from 2005 – 2012
8. Department Level and College Level Coordinator for NBA from 2011-2015
9. Members of Technical committee (Systems Group) at RVCE
10. Coordinator and Trainer for Women Empowerment and Skills Training Center in the Department of MCA, RV College of Engineering
11. Campus Coordinator for various software packages procured by the institution
12. Coordinated 3-Day Workshop on NS2 from 25th-27th July, 2014, in the Department of Master of Computer Applications, RV College of Engineering, Bangalore
13. Coordinated 2 days workshop on “Addressing the need of 13MCA38 (NS2) on 3rd September 2014 @ MVIT, Bangalore.
14. *Conducted and Coordinated CISCO Certification Training – Module “Application Layer” on 17th Sep, 2012 at Department of Computer Science and Engineering, RV College of Engineering, Bangalore.*
15. *Setting up of MPICH cluster for Parallel Processing Applications in the Department of MCA, RV College of Engineering.*
16. *Coordinated in setting up IBM-Center of Excellence in the department of MCA, RVCE.*

Contact Details:

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Date:

Place: Bangalore

(SUDHA M)