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Department of Computer Science
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Curriculum Vitae

Background:

- Born on 23rd March 1975 in Gangavathi, Raichur District, Karnataka, India
- Nationality : Indian
- Religion : Hindu
- Languages : Kannada, Hindi, English, Telugu
- **Caste/Subcaste: ST (Valmiki)**
- Marital Status : Married, Wife: Smt. Anupama U, Son: Master Vishnu Prasad K, Daughter: Vyshnavi.K

Education:

March 16 2009 – March 13 2015 :Submitted PhD Thesis in the Group of Prof.H.B.Walikar on Communication Networks under the faculty of Science and Technology in Computer Science at Karnatak University Dharwad, India.

August 2004: M.Tech in Computer Science & Engineering from BVBCET Hubli VTU, Belagavi Passed with Distinction.

August 1998 : B.E in Computer Science & Engineering from BMSCE Bangalore University Bangalore Passed in First Class.

School: Schooling from **Jawahar Navoday Vidyalay Kukanoor.**

Employment History:

26th September 2012 – Present : Associate Professor & Chairman in the Dept.of Computer Science at **Karnataka State Women's University, Bijapur.** Here I am working on various research problems related to the theory and practice of Multilayer Networks, Wireless Communication for Cochlear Implants. Responsibilities at this university that I am carrying out as follows

- **Chairman/Coordinator/Member** are summarized below.
- Chairman Dept.of Computer Science Established Apple Laboratory
- Co-Ordinator Dept.of Physics Established well equipped laboratory for Physics first time
- Coordinator for University Website
- Coordinator 1 Gbps connection
- Coordinator for online Courses
- Coordinator University IT Cell
- Member for technical Scrutiny Committee of University Tenders
- Member LIC Committee
- Chairman BOS,BOE in Computer Science
- Member Doctoral Committee for Computer Science
- Member of Advisory Committee Ambedkar Study Center
- Member of Advisory Committee for University Placement Cell.

August 2008 – September 2012 : I worked as Assistant Professor in the Dept of Computer Science **Karnatak University Dharwad**. Here I am working on various research problems related to the theory and practice of Multilayer Networks, Interconnection Networks, Graph Theory,Fibre Optic Communication.During this tenure apart from teaching , learning and research activities I also contributed to University as **Coordinator/Member** for the following works.

- Worked as member for IQAC Cell student feedback system in may 2012.
- Coordinator for PGDCA examination in 2010
- Organizing Secretary for Microsoft Saksham faculty empowerment programme
- Course Coordinator for Interdisciplinary Refresher Course from 25-06-2012 to 15-07-2012 at Academic Staff College Karnatak University Dharwad
- Member BOS/BOE for the Dept.of Computer Science
- Placement Officer for the Department

August 2006 – August 2008 : I worked as Senior grade Lecturer for **B.V.B College of Engineering & Technology Hubli**, in the Dept.of Computer Science & Engineering. During this tenure apart from teaching , learning and research activities I also contributed to College as **Coordinator/Member** are summarized below.

- Member NBA accreditation preparation Committee
- Member BOS prepared the syllabus based on ABET frame work
- Member BOE
- Member of a Committee involved in the preparation to take the college to Autonomy

June 2001- July 2004 : I worked as a Lecturer **Tontadarya College of Engineering Gadag** in the Dept.of Computer Science & Engineering.

April 1999 – November 2001: I worked as Software Engineer for “**Esperte Technologies pvt.ltd**” where my work was to Design, Develop and analyzing the solution. I used Install the software onsite for the Clients and Clearing the bugs when occurs.

Professional Expertise:

Programming languages : C/C++, Java, SQL/OQL, Pascal, Clipper, Fortran, JavaScript

Operating systems: Windows 9x/NT/XP (with the knowledge of Win32 API), Unix (Linux and Solaris) with reasonable knowledge of Unix APIs

Technologies: MFC, COM, TCP/IP, ATL, CORBA, JDBC, Servlets, JSP, ISAPI, XML, databases, Swing, UML.

Methodologies: Algorithmic designs, Network Topology Designs Rational Unified Process, Personal Software Process , Team Software Process.

Coordinator/Member for other University/Institutes/Organizations:

- BOS Member KSOU Mysore
- BOS Member for Directorate Distance education Hampi University Hospet
- BOE Member for all the universities in the state
- BOE Member Goa and Solapur University
- Course Coordinator and Resource Person for Directorate of Distance education Hampi University Hospet and 2014 and from 14-06-2015 to 21-06-2015.
- Course Coordinator and Resource Person for Directorate of Distance education Hampi University Hospet and 2014 and from 04-05-2016 to 11-05-2016.

Invited Presentations:

- Resource Person for refresher course to deliver a lecture on “Web Designing” on 1st September 2010 at Academic Staff College Karnatak University Dharwad
- Resource Person for refresher course to deliver a lecture on “ICT tools” on 18th April 2010 at Academic Staff College Karnatak University Dharwad
- Resource Person for refresher course deliver a lecture on “ICT tools” on 30th June 2012 at Academic Staff College Karnatak University Dharwad
- Resource Person for 59th Orientation Programme 9-6-2012 to 6-7-2012 at Academic Staff College Karnatak University Dharwad
- Resource Person for refresher course deliver a lecture on “ICT Applications in teaching” from 20-09-2011 to 10-10-2011 at Academic Staff College Karnatak University Dharwad
- Resource Person for National Seminar to deliver a talk on “New trends in Computational Dynamics” on 24th october 2010 at Basaveshwara Science College Bagalkot
- Resource Person for NET/SLET/JRF Coaching Classes at KSWU Vijayapura
- Delivered a invited talk on “Embedded System” at PDIT Hospet for 7th sem BE students on 23-12-2013
- Delivered a invited talk on “Parallel Computing” at Dept.of Computer Science Bangalore University Bangalore in 2012-13.
- Delivered a invited talk on “Cloud Computing” at Dept.of Computer Science Gulbarga

University Gulbarga in 2014.

- Invited as Resource Person to deliver a talk on “Data Communication and Computer Networks” at A.S.Patil College of Commerce Bijapur on 24th March 2015.
- Course Coordinator for Interdisciplinary Refresher Course from 25-06-2012 to 15-07-2012 at Academic Staff College Karnatak University Dharwad
- Course Coordinator and Resource Person for Directorate of Distance education Hampi University Hospet and 2014 and from 14-06-2015 to 21-06-2015.

Visiting Faculty for:

- Visiting faculty for Cousale Institute of Management to teach subjects such as E-Commerce, from 2010 to 2012.
- Visiting faculty for Dept.of Computer Science Basaveshwar Science College Bagalkot and K C P Science College Bijapur during 2009 to 2011.

Conference Papers Presented/attended:

- [1] Presented a paper on “**Design & Implementation of Wireless system for Cochlear Devices**” at *Fifth International Conference on Advances in Computer Science and Application – CSA 2016 jointly organised by the IDES and the Association of Computer Electrical Electronics and Communication Engineers (ACEEE) held during July 09-10, 2016; in Kolkata, India.*
- [2] Presented a paper on “**New_Network_Overlay_Solution_for_Complete_Network_Virtualization**” at *Fifth International Conference on Advances in Computer Science and Application – CSA 2016 jointly organised by the IDES and the Association of Computer Electrical Electronics and Communication Engineers (ACEEE) held during July 09-10, 2016; in Kolkata, India.*
- [3] Presented a paper on “**New Change Management Implementation Methods for IT Operational Process**” at *Sixth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2015 will be held during Oct 30-31, 2015; Trivandrum, INDIA. ACT2015, The ACT2015 conference is jointly organized by the IDES and Association of Computer Electrical Electronics and Communication Engineers (ACEEE).*
- [4] Presented a paper on” **Wireless Transmission of Sound Between Speech Processor and Transmitter for Cochlear Implant**” *5th International Conference on Information Communication and Management (ICICM 2015) October 12-13, 2015 Paris.*
- [5] Presented a paper on “**Algorithmic Design for Multi-Layer Survivable Networks and Failure Recovery**” at *National Conference on Recent Advances in Information Technology held during 15-16 February 2014 organised by Dept.of Computer Science and Applications Solapur University,Solapur.*
- [6] Presented a paper on “**K-Edge Connectivity A new Approximation of Finding Minimum Spanning Tree (OMST)**” at *International Conference on Recent trends in communication and Computer Networks ComNet 2013,organised by ACEEE and IDES.*

- [7] Presented a paper on “**Competitive Advantages & Information Technology**” at *National Conference on Strategies for Social and Sustainable Competitive Advantage in Globalised Era held during 20th & 21st June 2014 organised by Dept.of Commerce & Management KSWU,Vijayapura sponsored by ICSSR Newdelhi*
- [8] Presented a paper on “**Data mining in social science communication networks**” at *International conference on contemporary issues in commerce,Management,Technology & Social science held on 21st September 2013 at Anjuman arts and science college bijapur.*
- [9] Presented a paper on “**Online Social Networks and E-Commerce**” at *National Conference on Social Aspects in Marketing Management for 21st Century held during 21st & 22nd November 2013 organised by Dept.of Commerce & Management KSWU,Vijayapura sponsored by ICSSR Newdelhi*
- [10] Presented a paper on “**Predictable Packet loss and Buffer Scaling Mechanism**” at *International Joint Colloquium on “Emerging Technologies in Computer Electrical and Mechanical CEM 2011” held during 27-28 December 2011 jointly organised by JNNCE himoga,ACEEE,AMAE and Conference proceedings is published by IDES search library*
- [11] Presented a paper on “**Efficiency Parameter(Latency) for wireless network to increase QOS**” at *National Conference on Algorithms,Computing,Graph Theory and Combinatorics held during 20-22 April 2011 jointly organised by Dept.of Computer Science Karnatak Arts,Science & Commerce College Bidar,India.*
- [12] Participated in Jubilee Conference on Discrete Mathematics held during January 11-13 2009.Organised by Centre for Mathematical Sciences Banasthali University sponsored by NBHM,India.
- [13] "Reduced Complexity Beam Forming Algorithm" IEEE, ICEECCOT-2016

Session Chair

- [1] Chaired a technical session in national conference on recent advances in information technology (NCRAIT 2014) held on 15-16,February,2014 at Solapur University.
- [2] Chaired a technical session in national conference on recent advances in information technology (NCRAIT 2014) held on 15-16,February,2014 at Solapur University.
- [2] Chaired a technical session at *Sixth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2015 will be held during Oct 30-31, 2015; Trivandrum, INDIA. ACT2015, The ACT2015 conference is jointly organized by the IDES and Association of Computer Electrical Electronics and Communication Engineers (ACEEE).*

Journal Publications

- [1] “Embedding of Internal and External Components of Cochlear Implant on to a single Integrated Circuit” IOSR
- [2] “Issues and challenges in designing the wireless architecture for cochlear devices”,IJERD
- [3] New Network Overlay Solution for Complete Networking Virtualization,Advances in Computer science and applications,DE GRUYTER
- [4] Design & Implementation of Wireless system for Cochlear Devices, Advances in Computer science and applications,DE GRUYTER

- [5] "New Change Management Implementation Methods for IT Operational Process" De Gruyter Int.J on Computaion and Communication Technologies 2016,Pages : 186-194,ISBN(online) 9783110450101.
- [6] Defect Recognition of Fruit using Statistical Approach International Journal of Engineering Trends and Technology (IJETT) – Volume 22 Number 7-April 2015 ISSN:2231-5381 <http://www.ijettjournal.org> Page 331.
- [7] Defect Recognition of Fruit using Electrical method International Journal of Engineering Trends and Technology (IJETT) – Volume 23 Number 2-may 2015 ISSN:2231-5381 <http://www.ijettjournal.org> Page 331.
- [8] **K-Edge-Connectivity: a new Approach of finding Minimum Spanning Tree Ordered Minimum Spanning Tree (OMST)**,Elsever proceedings of ComNet CIIT & ITC of International Conference on ComNet CIIT & ITC 2013,ISBN 978-81-910691-6-3 .
- [9] **K-Edge-Connectivity: a new Approach of finding Minimum Spanning Tree Ordered Minimum Spanning Tree (OMST)** ISSN: 2277-3754 ISO 9001:2008 Certified *International Journal of Engineering and Innovative Technology (IJEIT) Volume 3, Issue 2, August 2013 115*
- [10] Network change notification protocol(NCNP) for Multi-Layer Networks International Journal of Innovative Research in Advanced Engineering (IJIRAE) ISSN: 2349-2163Volume 1 Issue 8 (September 2014) www.ijirae.com.
- [11] Resource Description Schema (MLRDS) and automatic path finding mechanism for Survivable Mytilayer Networks International Journal of Innovative Research in Advanced Engineering (IJIRAE) ISSN: 2349-2163 Volume 1 Issue 8 (September 2014) www.ijirae.com
- [12] Enhancing Energy Efficiency in WSN using Energy Potential and Balancing, IJIRIS ,August. 2014,ISSN 2349-7017, Indexed with 1.50 impact factor.
- [13] "Efficient Geographic Multicast Protocol for Mobile Adhoc Networks International Journal of Engineering Research and Development" e-ISSN: 2278-067X, p-ISSN: 2278-800X, www.ijerd.comVolume 10, Issue 5 (May 2014), PP.07-11
- [14] Algorithmic Design for Multi-Layer Survivable Networks and Failure Recovery ISSN: 2277-3754 ISO 9001:2008 Certified International Journal of Engineering and Innovative Technology (IJEIT) Volume 3, Issue 2, August 2013
- [15] DESIGN AND IMPLEMENTATION OF IEEE 802.16 MAC LAYER SIMULATOR International Journal of Advances in Engineering & Technology, Nov. 2012. ©IJAET ISSN: 2231-1963
- [16] Performance Analysis of New Low Complexity Signum Algorithms for beam Formation,IJAET,ISSN: 2231-1963,sept-2012
- [17] New Algorithms for Beam Formation and its Comparison International Journal of Computer Applications (0975 – 8887) Volume 51– No.3, August 2012

- [18] Dynamically Avoiding the Substantial Throughput Penalty of FRR International Journal of Computer Applications (0975 – 8887) Volume 51– No.9, August 2012.
- [19] INDEX SELECTION SORTING ALGORITHM International Journal of Engineering Research & Technology (IJERT) Vol. 1 Issue 5, July - 2012 ISSN: 2278-0181.
- [20] Estimating Congestion Window with Misbehaving Client using Proposed FACK,IJERT ISSN:2278-0181 Vol.1 issue 3,may 2012.
- [22] “A New Scheme for IPv6 BD-TTCS Translator: A Section Division Approach” International Journal of Computer Applications (0975 – 8887) Volume 46–No.5, May 2012.
- [23] Efficiency Parameter (Latency) for Wireless Network to increase QOS, International journal of wireless Networks and Communications ISSN 0975-6507 Volume 4,Number 1(2012), pp.11-18.
- [24] “Predictable Packet loss and Buffer Scaling Mechanism”,ACEEE Int.J .on Network security,Vol .02,No.04,oct 2011,2011 DOI : 01 .IJNS.02.04.523.
- [25] "Reduced Complexity Beam Forming Algorithm" IEEE, ICEECCOT-2016

Papers Communicated

- [26] Issues and Challenges in Twisted light Communication
- [27] Wireless Architecture based on the BLE 4.0 for Cochlear Implant
- [28] Wireless Architecture based on the WIFI Cochlear Implant

Books Contribution

Books

- [1] Developed study material for MCA 2nd year Correspondance course “Paper Code MCA-CE-203 Operating System Concepts and Unix” for Prasaraanga Karntakak University Dharwad on 23 feb 2011.
- [2] Developed study material for MCA 2nd year Correspondance course “Programming manual –IV based on 203 & 206 Operating System Concepts and Unix/Computer graphics” for Prasaraanga Karntakak University Dharwad on 16 may 2011.
- [3] Developed study material for MCA 2nd year Correspondance course “Programming manual –II based on 106 Visual Basic Programming” for Prasaraanga Karntakak University Dharwad on 16 may 2011.
- [4] “RDBMS Concepts A Design Approach” By Ramesh K,Current Publications,Edition 2016,ISBN:978-81-89065-81-2.
- [5] “Software Engineering A System design Approach”by Ramesh.k & Sanjeev Kumar K M,ISBN: 978-81-89065-82-9,Edition 2016,Current Publications.
- [6] “New Change Management Implementation Methods for IT Operational Process” De Gruyter Int.J on Computaion and Communication Technologies 2016,Pages : 186-194,ISBN(online) 9783110450101,DOI (Chapter) :10.1515/9783110450101-018,DOI (Book): 10.1515/9783110450101.

- [8] New Network Overlay Solution for Complete Networking Virtualization,Advances in Computer science and applications,DE GRUYTER,DOI Chapter,DOI Book
- [9] Design & Implementation of Wireless system for Cochlear Devices, Advances in Computer science and applications,DE GRUYTER, DOI Chapter,DOI Book

Titles in Pipeline

- Change Management Process Guide for Software Industries
- Programming Foundation

Foreign Visit:

ICICM 2015 October 12-13 2015 Paris,France 5th International Conference on Information Communication and Management (ICICM 2015)

Workshops Attended

- Participated in Two days National Workshop on “Academic Writing” Organised by ASC Karnatak University Dharwad held during 26th & 27th April 2011.
- Participated in Two days National Workshop on “IT Infrastructure:Institute Perspective – IT Infra” held during 3-4 August 2007 Organised by BVBCET,Hubli
- Participated in Two days National Workshop on “Image Processing ,Vision and Pattern Recognition” held during 29-30 March 2010 Organised by Dept.of Computer Science Karnatak University Dharwad.
- Participated in Five days National Workshop on “School on Graph Algorithms” held during 26-31 March 2011 jointly organised by Dept.of Computer Science Karnatak University Dharwad and VTU Belagavi.

Refresher/Orientation/Short term courses attended

- Participated in “Train the Trainers” Refresher Course held under the aegis of the “Industry Academia Partnership”Conducted by Infosys BPO Mysore during 18th may – 28th may 2009
- Participated in “Faculty Enablement Program” a Refresher Course held at Infosys Mysore during 21 Jan – 01 Jan 2008.

Research Supervision

PhD: guiding

Mphil : 06 awarded

M.Tech : 42 awarded

[Dr.Ramesh.K](#)

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