

PROFILE

1. Name : Dr.H.V.KUMARASWAMY
2. Date of Birth : 25.12.1964
3. Highest Qualifications : M. E. Ph. D.
Exp: 23 years
4. Academic Performance :
(High School to Highest Qualifications.)



Qualifications	Board / IIT / University	Institute and place where studied	Year of passing	Class & % marks
SSLC	KSEEB	Paper Town High School Bhadravathi.	1980	I Class & 72%
PUC / 10+2	PU Board	Sir M.V College, Bhadravathi.	1982	I Class & 82%
B. E. Degree	University of Mysore	GBDT college Davanagere,	1986	I Class & 62%
M. E. Degree	Bangalore University	UVCE Bangalore.	1993	I Class & 72%
Ph.D	VTU, Belgaum	RVCE Bangalore	2011	Awarded

5. Achievements since date of joining:

FD	R&D	No. of Publication	Teaching Award	Books / Monograph	Conference Seminars	Extra curricular activities*	Admin.
01	01	32	01	01	37	3	08

6. Research Interests : DSP, Statistical Signal Processing, Smart Antenna, Wireless Communication, Networking & Coding.

7. Research & Development

1. Completed a funded project on “ Design and development of dielectric lens based active smart array antenna for surface communication of underwater vehicles” as a Co-PI.
2. Actively involved in writing proposals and guiding UG and PG students in real time and state of art projects.

8. List of publications :

NATIONAL AND INTERNATIONAL PUBLICATIONS:

SL NO	DATE	PAPER DETAILS	PLACE	Proceedings of	PAGE/ VOL
01	21-22 nd July 2005	Packet storm handling using Interrupt service Routine Computational Mathematics in Engineering Applications	Dept. of MCA RVCE Bangalore	National conference on Computational Mathematics in Engineering Applications	133-138
02	21-22 nd Oct 2005	Comparison of DOA Algorithms for Smart antenna	Dept. of E & C RVCE Bangalore	National conference on SOC for Broadband Access	56-62
03	23-25 th Nov 2006	Comparative analysis of antenna beam patterns of the 6-by-1 linear array and the 6-by-2 rectangular array	Dept. of E & C RVCE Bangalore	International conference on computer Communication and Control	152-161
04	18 th -19 th Dec 2006	Comparative analysis of direction of arrival estimation and beamforming techniques in smart antennas	Vellore Institute of Technology Vellore	International conference on Mobile, Ubiquitous & Pervasive computing	VOL-II 39-45
05	16-17 April 2007	The selection of weighting functions for linear arrays using different techniques	JSPN's Rajarshri Shahu College Of Engineering Pune	National conference on Emerging Trends in Electronics and Telecommunication	38-40
06	18 th May 2007	Adaptive Beamforming in Smart antennas using Non blind and Optimal constrained Beamforming algorithms.	Dept of TC - RVCE Bangalore.	National conference on Advances in Telecommunication	69-77

07	18 th May 2007	Performance analysis of Adaptive Beamforming algorithms for Smart antennas	Dept of TC - RVCE Bangalore.	National conference on Advances in Telecommunication	61-68
08	6 th - 8 th sept 2007	Comparative analysis of Pisarenko's and Auto Regressive methods of DOA estimation in cumulant and correlation based environments.	IEEE Bangalore Section	International conference INDICON 2007& 16 th Annual Symposium of at Bangalore	IND-163
09	21 st – 23 rd Nov 2007	Comparative analysis of LMS, RLS and other Beamforming methods in smart antenna	Dept. of E & C RVCE Bangalore	International conference on computer Communication and Control	Comm.-11 244-248
10	21 st – 23 rd Nov 2007	Performance Evaluation of LDPC Coded OFDM System for WiMAX Standard Over AWGN and Vehicular A Channels	Dept. of E & C RVCE Bangalore	International conference on computer Communication and Control	Comm.-06 219-223
11	4 th – 6 th Dec 2007	Analysis of Hemispherical Dielectric Lens Antennas for Wireless applications	at Melaka Malaysia	ASIA-PACIFIC conference on Applied Electromagnetics-07	APACE-107
12	16-17 th May 2008	Variable step size Griffiths Algorithm for Adaptive Beamforming	Dept of TC - RVCE Bangalore.	National conference on “ Next generation wireless network”	86-91
13	16-17 th May 2008	Design and Implementation Of DSP based Receiver For Satellite Communication For PM/PSK /PCM	Dept of TC - RVCE Bangalore.	National conference on “ Next generation wireless network”	102

		Scheme			
14	August 30-31, September 01, 2008	Implementation Of Dielectric Lens With Smart Antenna	Singapore	Proceedings of World Academy of Science Engineering and Technology	Vol 32 Aug 2008 ISSN 2070-3740 Page 732-737
15	3-6 th Dec 2008	Implementation of Variable step size Griffiths' algorithm for Adaptive Beamforming	ISM- 08 Bangalore	IEEE- International symposium on Microwaves-2008(ISM-08)	ISM-08 Pages 91-95
16	Dec 2008	Smart Antenna System using Dielectric lens	ICGST journal	ICGST International journal Digital Signal Processing	DSP journal Vol-8 pages 31-35
17.	16-17 th May 2009	Performance analysis of Non blind adaptive Beamforming algorithms	Dept of TC - RVCE Bangalore.	National conference on "Emerging Broad Band Technologies"	42-45
18	24 th -25 th Aug 2009	Interface Logic for Satellite Receiver	Dept. of E & C PESCE Mandya	First National conference on Image Processing, Pattern recognition & computing Vision	-
19	23-24 th October 2009	Implementation and performance Evaluation of Periodogram smoothing of Noisy signals.	Dept. of E & C RVCE Bangalore	National conference on VLSI and Multimedia Communication-2009" (NCVM-09)	84-87
20	21 st and 22 nd April 2010	Directional beamforming using smart antenna for mobile Applications	Oxford College of Engineering Bangalore	National Conference Control Communication Signal Processing & VLSI Techniques	
21	23 rd and 24 th April	Beamforming Using Variable	CMR Institute of Technology	4th National Conference on Recent	

	2010	Step Size LMS For Mobile Communication	Bangalore	Trends in Communication, Electronics & Information Technology	
22	6 th August 2010	Blind Beam steering and Directional Beamforming Using Leaky LMS For Mobile Applications	BMS college of Engineering Bangalore	National Conference on Networking, Embedded & Wireless systems	
23	7 th -9 th Oct 2010	Reduced Complexity Sign Beamforming Algorithms for Mobile Communication Systems	IETE Bangalore	3rd IETE Conference on RF and Wireless ICON-10	
24	December 10, 2010	A New TURBO LMS Beamforming for Mobile Communication	-Journal	Published in IJCA December 2010	
25	16th and 17th of April 2011	Direction-Of-Arrival Estimation Based On Minimum Eigen Vector In the Noise Subspace	Bangalore	42nd IETE Mid-term Symposium on Telecom Paradigms - Indian Scenario	pp 32-36
26	27th and 28th of April 2011	Directional Beam Forming In Smart Antenna Systems for Mobile Communication	Dr. Ambedkar Institute of Technology, Bangalore	1st National Conference on Wireless Communication and Technology	pp 369-372
27	13th May 2011	Performance Analysis of MUSIC Algorithm Using Dielectric Lens	New Horizon College of Engineering, Bangalore	4th National Conference on Information science and Communication Technology – NCICT-176	pp 7
28	1-2 nd April 2012	Adaptive FIR Filter for Moving target detection in pulse Doppler Radar	Interscience Research Network, Delhi	International Conference on Information, Computing and Telecommunications – ICICT-2012	

29	17-18 th May 2012	Implementation of empirical mode decomposition for signal processing	Dept of TC - RVCE Bangalore.	National conference on "Signal processing and communication"	
30	17-18 th May 2012	Radar waveform and optimization using ambiguity function	Dept of TC - RVCE Bangalore.	National conference on "Signal processing and communication"	
31	17-18 th May 2012	A framework to control the devices in home though android mobile	Dept of TC - RVCE Bangalore.	National conference on "Signal processing and communication"	
32	8-10 th June 2012	Eletro-oculography based semi-automatic eye-gaze controlled electric wheelchair.	MSRIT Bangalore	Proceedings of International conference on "Laser advances in science Engineering and research: ICLASER2012	59

9. Number of Ph.D., M.Phil., M.Tech. guided.

Guiding 3 Ph. D students

Guided 20 M.Tech. Students.

10. TEACHING AWARD :

1. Honored by ISTE, RVCE Chapter on 7-04-2004 for publishing Book titled "**SIGNALS & SYSTEMS**" Published by Scitech Publication Chennai (Coauthored by Sri. P Nagaraju, RVCE)

11. BOOKS :

1. Authored a book titled "**Signals & Systems**" Published by: Scitech Publication, Chennai, **ISB No.8188429260**. (Released Revised Edition also)

12. CONFERENCE/ SEMINARS:

1. 4th IETE conference on RF and wireless on 14-16 October 2011, at EC Dept RVCE Bangalore.
2. National conference on "Communication Technologies for global connectivity"- on 17th May 2011, at TC Dept RVCE Bangalore
3. National conference on "Communication Network and security"- on 17th May 2010, at TC Dept RVCE Bangalore

4. National conference on “ VLSI and Multimedia Communication-2009”(NCVM-09) on 23rd -24th October 2009, at EC Dept RVCE Bangalore
5. National conference on “Emerging Broad Band Technologies”, on 16-17th May 2009 Dept of TC - RVCE Bangalore.
6. IEEE- International symposium on Microwaves-2008(ISM-08) “on 3rd -6th Dec 2008, at Bangalore.
7. National Symposium on “Research Methodologies and Techniques in Control, Communication & Signal processing (RMTCCS) on 2nd -3rd June 2008, at EC Dept RVCE Bangalore.
8. National conference on “Next generation wireless network”, on 16-17th May 2008 Dept of TC - RVCE Bangalore.
9. ASIA-PACIFIC conference on Applied Electromagnetics-07, on 4th – 6th Dec 2007 at Melaka Malaysia.
10. International conference on computer Communication and Controls on 21st – 23rd Nov 2007 at Dept. of E & C RVCE Bangalore.
11. International conference INDICON 2007& 16th Annual Symposium on 6th- 8th Sept 2007 IEEE Bangalore Section, Bangalore.
12. National conference on “Advances in Telecommunication”, on 18th May 2007 Dept of TC - RVCE Bangalore.
13. National conference on Emerging Trends in Electronics and Telecommunication on 16-17th April 2007 JSPN’s Rajarshri Shahu College Of Engineering **Pune**.
14. International conference on Mobile, Ubiquitous & Pervasive computing, on 18th -19th Dec 2006, Vellore Institute of Technology Vellore
15. International conference on computer Communication and Controls on 23rd -25th Nov 2006 at Dept. of E & C RVCE Bangalore
16. National workshop on “Advanced Signal Processing Technologies” on 7th & 8th April 2006. at BNMIT Bangalore.
17. Behavioral Skills Training program at RVCE Bangalore, 09-01-2006 To 16-01-2006
18. Workshop on Antennas, Conducted by Microsoft, Bangalore, 14-12-2005
19. Workshop on M.Tech Core subjects of Digital Electronics & Communication, at MSRIT, Bangalore, 18-11-2005
20. National conference on SOC Broadband Access on 21-22 July 2005 at MCA dept RVCE Bangalore,
21. MATLAB & Simulink TechExpo 2005 at Bangalore, 29-09-05
22. National conference on computational mathematics in engineering applications 2005 at RVCE Bangalore, 21-07-05 to 22-07-05
23. Trends in Broadband Communication, ISTE at RVCE Bangalore 30-08-2004 To 4-09-2004
24. SPCOM-2004 at IISC Bangalore 11-12-2004 to 14-12-2004

25. Workshop on Embedded System organized by RVCE & ISTE, at Bangalore 25-08-2003 To 27-08-2003
26. Workshop on Introduction to VLSI & Embedded Multimedia System organized by Philips Semiconductor, Bangalore 04-10-2002 To 16-01-2003
27. Workshop on Digital Signal & Image Processing at MSRSAS, Bangalore 31-05-2002 To 01-06-2002
28. Workshop on The preparation of Model Question Paper for 7th SEM TC at Davanagere, 23-10-2001
29. Workshop on Internet, conducted by Trillium at ITPL, Bangalore, 22-03-2001
30. State level workshop on Computer Networks & Networking Lab. At MSRIT, Bangalore, 30-11-2001 To 01-12-2001
31. DSPS Fest 2000 Conducted by Texas Instrument, Bangalore, 30-11-2000 To 01-12-2000
32. Workshop on DSP Architecture & Tools, at RVCE, Bangalore, 13-09-2000 To 15-09-2000
33. Workshop on Internet the .com era at ISTE, Bangalore, 15-05-2000 To 16-05-2000
34. Workshop on VTU Syllabus Electrical Branches at MCE, Hassan, 26-02-2000
35. Workshop on BFIT project frame works at BMSCE Bangalore, 18-12-1998 To 19-12-1998
36. Workshop on Circuit Simulation and Modeling at RVCE Bangalore, (10-12) March1997
37. Short term course on DSP & Application organized by AICTE, at RVCE Bangalore, 3-01-1996 To 6-01-1997

13. CONTINUING EDUCATION PROGRAMS/ORGANIZED/CONDUCTED

SL. NO	DATE	COURSES
01	10.02.2003 to 21.02.2003	Signal Analysis & Systems
02	21.07.2003 to 01.08.2003	Signal Analysis & Systems
03	05.07.2004 to 17.07.2004	Signal Analysis & Systems
04	24.01.2005 to 05.02.2005	Signal Analysis & Systems
5	08.07.2006 to 09.12.2006	Signals & Systems with Applications And Mathematics (Grad IETE)
6	17.07.2006 to 29.07.2006	Overview of Electronics for Mech. Engrs.
7	14.10.2006 to 20.01.2007	Mechanical Engineering and Radar basics.(with Mech dept.)
8	11-07-07 to 17-07-07	Fundamentals of Electronics
9	23-07-07 to 27-07-07	Skill development program for DRDO personel
10	30-07-07 to 03-08-07	Skill development program for DRDO personel
11	30-07-07 to 10-08-07	DRDO training program for CS graduates
12	03-12-07 to 08-12-07	Skill development program for DRDO personel
13	14-01-08 to 18-01-08	Skill development program for DRDO personel
14	11-06-08 to 16-06-08	Skill development program for DRDO personel
15	29-06-09 to 3-07-09	Fundamentals of Electronics and communication for

	DRDO personel.
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14. RESOURCE PERSON

1. Resource person for Edu-sat program, VTU.
2. For all LRDE programs organized by RVCE
3. For Master of Science program under Mangalore University.
4. For Jain college of Engineering.

15. Technical/Guest Lecture Delivered

Sl. No.	Subject / Topic	Place	Date
1	Signals and Systems	UGC Sponsored State Level 2 days Workshop at Mount Carmel College Bangalore	02-Sept-2005
2	Fourier Transforms & its applications	Teachers Training Programme 2006-07 @ Sri. Bhagawan Mahaveer Jain College Bangalore	28-July-2006
3	Analog Modulation & Filters	Dept. of TCE- RVCE Bangalore	7 th -August-2006
4	Digital communication Theory	VTU Edusat E-learning Programme	9 th -Feb-2007 to April-2007
5	Advanced Communication	Sri. Bhagawan Mahaveer Jain College Bangalore	13-Sept-2008
6	Spread Spectrum Modulation Technique	Mount Carmel College – Bangalore	19-March-2010
7	Spread Spectrum Techniques in Mobile Communication	CET, Jain University- Bangalore	20-Nov-2010
8	Adaptive Filters and Its Applications	CET Jain University, Bangalore.	30-April-2011.
9	Multi-rate Signal Processing	National Conference on “ Advanced DSP & Its Applications ”, at SJCIT Chickballapur	17-19-August-2011
10	An overview of convolution codes, RS codes and BCH Codes	CET Jain University, Bangalore.	15-Oct-2011.
11	Antenna & Propagation	VTU-EDUSAT Programme – 16	13-Feb-2012 to April-2012
12	Digital Modulation & spread spectrum Techniques	Mount Carmel College – Bangalore	21 st –Feb-2012
13	Multi-rate Signal Processing	Dayanand Sagar College of Engineering Bangalore	29-Feb-2012.
14	Advanced Coding Techniques	PES College of Engineering – Bangalore	27-April-2012

15	Latest Trends in Communication	Jain University Bangalore	13 th July-2012
16	Audio Processing	Talk at National Seminar on Digital Media Processing – Evolve-Explore-Educate, held at Dept. of M.C.A., Mount Carmel College – Bangalore.	2 nd & 3 rd August 2012.

16. INDUSTRY INTERACTION :

Sl no	Year	Industry/ Organization	Nature of work	Place	Course taught
1	2010	WIPRO	Corporate Training	WIPRO Eln city	Basic Telecom & Data communication
2	2010	WIPRO	Corporate Training	WIPRO Eln city	FOT
3	2009	WIPRO	Corporate Training	WIPRO Eln city	Data communication
4	2009	WIPRO	Training	Madiwala	Data networks
5	2002	EDHAS Technology	Training	EDHAS Tech Bangalore	VLSI design
6	2001	WIPRO	BITS MS Class	WIPRO Eln city	Computer Networks
7	2001	TATA ELXSI	BITS MS Class	TATA ELXSI	Computer Networks
8	2000	WIPRO	BITS MS Class	WIPRO Eln city	Computer Networks
9	2000	WIPRO	Corporate Training	WIPRO Eln city	Basic Telecom & Data communication
10	1999	WIPRO	Corporate Training	WIPRO M2	Basic Telecom & Data communication
11	1999	WIPRO	BITS MS Class	WIPRO M1	Computer Networks
12	1998	WIPRO	Corporate Training	ITPL	Basic Telecom & Data communication

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(Dr.H. V. KUMARASWAMY)