

BIO-DATA

Dr. K.V.K.K. Prasad

PERSONAL DETAILS

Nationality	Indian
Date of Birth	16 January 1959

EDUCATION

PhD. (1989) in Generation and Recognition of Speech by Computers from Indian Institute of Technology, Kharagpur.

M.Tech. (1983) in Satellite Communication and Remote Sensing from Indian Institute of Technology, Kharagpur.

B.E. (1980) in Electronics and Communication Engineering from Andhra University, Visakhapatnam.

AWARDS AND RECOGNITIONS

Featured as “Innovator of the Month” in the November 2004 issue of the newsletter of Indian Innovators Association. www.indianinnovatorsforum.org.

Member, Editorial Advisory Board of the magazine Voice+Asia Pacific, published by Advanstar, U.K. during 1996-98.

Young Scientist Award (1986) of the Indian Science Congress Association for research work in “automatic transliteration and generalized phoneme vocoder”. Award presented by late Shri Rajiv Gandhi, the then Prime Minister of India.

Best paper award in the IEEE centennial paper contest (1984) conducted by IEEE Student Branch of IIT, Kharagpur for the paper “Impact of Automation on post-2000 A.D. Society”.

Best paper award in the paper contest (1984) conducted by IEEE Student Branch of MIT, Madras for the paper “Revolutionary Evolution of the Computer”.

Best paper award in the paper contest (1982) conducted by IEEE Student Branch of IIT, Kharagpur for the paper “Design Considerations of a 17/12 GHz Direct Broadcast Satellite for India”.

MEMBERSHIP IN PROFESSIONAL BODIES

Senior Member, IEEE (Computer Society and Communication Society)
Membership No. 04662862.

Senior Member, Association for Computing Machinery (ACM). Membership No.
3243011.

Fellow, The Institution of Electronics and Telecommunication Engineers (IETE).
Membership No. F-181505.

SUMMARY OF PROFESSIONAL EXPERIENCE

Since August 1998 Director (Technology)
Innovation Communications Systems Ltd.
(www.icsglobal.biz)
Road No. 1, Banjara Hills
Hyderabad 500 034.

and

Consultant (Informatics and Telematics)

Since August 2004 Director
SVS Embedded Technologies Pvt. Ltd.
(www.svsembedded.com)
1st Floor, 63B, 13th Main, JP Nagar, 3rd Phase
Bangalore 560 078.

Since April 2006 Director
Peach Telecoms Pvt. Ltd.
14/1118, 19th Street, 'G' Block
(Opp. to Chinmaya Vidyalaya North Gate)
Anna Nagar
Chennai 600 040.

May 1997 to July 1998 Professor
Department of Computer Science and Engineering
M.S. Ramaiah Institute of Technology
Bangalore 560 054.

and

Consultant (Informatics and Telematics)

July 1994 to May 1997	<p>Consultant (Informatics and Telematics)</p> <p>and</p> <p>Managing Director ICS Software Pvt. Ltd. No. 2, Ex-servicemen Colony 10th Main, R.T. Nagar Bangalore 560 032.</p>
April 1989 to July 1994	<p>Project Engineer/Coordinating Program Manager/ Senior Program Manager Centre for Development of Telematics 71/1, Sneha Complex, Miller Road Bangalore 560 052.</p>
Sept 1986 to April 1989	<p>Scientist/Engineer 'SD' Department of Electronics (Ministry of Information Technology) Government of India C.G.O. Complex, Lodi Road New Delhi 110 003.</p>
Nov 1983 to Sept 1986	<p>Research Scholar Indian Institute of Technology Kharagpur 721 302.</p>
Aug 1980 to April 1981	<p>Graduate Engineer Trainee Steel Tubes of India Ltd. Station Road Dewas, M.P.</p>

DETAILS OF EXPERIENCE

From August 1998, Director (Technology) at Innovation Communications Systems Ltd., Hyderabad.

Duties: Management of software development projects, implementation of software engineering standards, corporate planning and business development.

Projects successfully completed:

- Development of Fax server for Bharat Electronics Limited, Bangalore.
- Development of single port interactive voice response system
- Development of Subscriber Dynamic Locking System for Kenya Telecom

- Development of Automatic Test Equipment using Virtual Instrumentation for ECIL, Hyderabad.
- Development of Relyan, a software product for reliability analysis of electronic/telecommunication equipment.
- Development of Computer-Based Training (CBT) packages.
- Development of coder/decoder system for defense labs.
- Development of burst generator system for defense labs.
- Development of packaged software Quest, a quality engineer's software tool for productivity improvement.
- Web Based Teaching system over an Intranet at ICS, Hyderabad.
- Antenna Information Management System for ECIL, Hyderabad.
- Development of tele-banking system using IVR for cooperative banks.
- Development of Protocol Converter unit for a satellite-based distance education system, for Bharat Electronics Ltd., Bangalore.
- Modem based Interactive voice response system.
- ISO 9001:2000E Quality certification for hardware and software divisions.
- Development of multi-channel digital recording system for monitoring of telephone calls and recording of audio signals (for security agencies).
- Development of UDP Server/Client software for APNet satellite network, for Bharat Electronics, Bangalore.
- Development of content for e-learning portal on 'Core Competency in Software Process Management' jointly with CDAC, Hyderabad.
- Development of Digital Audio Recorder for DLRL, Hyderabad.
- Development of Technique Counter Modulation Generator for DLRL, Hyderabad.
- Development of Simulator for Baseband Identification and Detection System (BIDS) for DLRL, Hyderabad.
- Development of Voice enabled Web, project sponsored by Department of Scientific and Industrial Research, Government of India.
- Development of Baseband Identification and Detection System (BIDS) for DLRL, Hyderabad.
- Development of "DSP on Desktop" product
- Development of training kits based on 89C51, AVR ATmega128 and Analog Devices DSP 2191.
- Customized software development for Interactive Voice Response (IVR) systems for various market segments.
- Design of workflow automation system in hospitals using RF tags for Statcom LLC, USA.
- Development of Messaging Software on Polnet for Bharat Electronics, Ghaziabad.
- Development of multi-channel voice logger for security agencies and defense applications.
- Development of web sites including www.icsglobal.biz, www.transglobe.com, www.natureindia.org
- Voice band data signal analyzer for ELSEC.
- Messaging software for Polnet, a satellite-based data network, for Bharat Electronics, Ghaziabad.

- Content development on Cyber Security for e-learning portal of CDAC, Hyderabad.
- Development of reverse communication link software for VSAT network (APNet) for Bharat Electronics, Bangalore.
- Message broadcasting software on Polnet for Bharat Electronics, Ghaziabad.
- Message Communication software for communication from moving vehicles through Simputers, for Bharat Electronics, Bangalore.
- Development of Desktop-Simputer Message Communication Software for Bharat Electronics, Bangalore.
- Development of DSP based IF Signal Processing Module for scan receiver, for ECIL.
- Design and development of Tiger-SHARC DSP based hardware platform for Software-defined Radio applications.
- Development of IF/FDM Analyzer for DLRL/ECIL.
- Acoustic-phonetic continuous speech corpus preparation for CDAC, Trivendrum

On-going projects:

- 16-channel voice logger for ECIL for use in defense forces
- Real-time voice band data analysis on a PC for ELSEC
- Digital radio (up to IF 455 KHz) for ship to shore communication for ECIL
- Analysis and Recording Module to record, analyze and demodulate 21.4 IF signals air-borne application for ELSEC
- CRM software for Insure Socket, USA

From May 1997 to July 1998, Professor in the Department of Computer Science and Engineering at M.S. Ramaiah Institute of Technology, Bangalore (affiliated to Bangalore University).

Duties: Teaching Undergraduates in the following subjects: Artificial Intelligence and Expert Systems, Compiler Design, Data structures using C, Software Engineering, Problem solving in UNIX environment and Database Management Systems.

Also, a consultant to Innovation Communications Systems Pvt. Ltd., Hyderabad for their R & D activities in the areas of telecom software, interactive voice response systems, virtual instrumentation and telemedicine.

From July 1994 to May 1997 as an independent consultant in informatics and telematics to a no. of IT companies in the areas of software engineering, ISO 9000 and CMM implementation, software project management

and

Managing Director, ICS Software Pvt. Ltd., Bangalore.

Duties: Project Management in the areas of (i) development of software packages for computer based training (ii) software products for Cable TV operators (iii) interactive voice response systems and (iv) text to speech conversion systems. Design of training modules and conducting training programs in the following subjects: Software engineering, UNIX operating system, C and C++, Internet protocols, HTML and Java, Oracle 7.1 and Power Objects.

From April 1989 as Project Engineer in Telecommunications Research Centre (subsequently merged with Centre for Development of Telematics), Bangalore

From March 1991 as Coordinating Program Manager and

From January 1993 to July 1994 as Senior Program Manager

in Centre for Development of Telematics, Bangalore

Duties: Responsible for design and development of baseband hardware and software for TDMA-Point to Multi-point rural radio system for rural telecommunications.

Member of national experts group for study group 10 'Languages for telecom applications' of ITU Telecommunications Standardization Sector (ITU-TS) for the period 1993-96.

Initiated development of "Cordless RAX" for wireless local loops.

From September 1986 to April 1989 as Scientist/Engineer 'SD' in Department of Electronics (Ministry of Information Technology), Government of India, New Delhi.

Duties: Research and Development work in computer networking and new telematic services, in charge of the wide area network group of the project ERNET.

Member of the working group on INFLIBNET, constituted by University Grants Commission, New Delhi.

From November 1983 to September 1986 as Research Scholar in the Department of Electronics and Electrical Communication engineering, Indian Institute of Technology, Kharagpur.

Duties: Research in automatic speech synthesis and recognition with special emphasis on Indian languages.

From August 1980 to April 1981 as Graduate Engineer Trainee in Steel Tubes of India Ltd., Dewas, M.P.

Duties: On-the job training in various departments of the organization.

TEACHING EXPERIENCE

External examiner for evaluation of M.Tech. (Computer Science) thesis of University of Hyderabad, September 2005.

Development of content for the e-learning portal on Cyber Security for CDAC, Hyderabad. (www.elearn.cdacindia.com)

Part-time faculty member for M.S.I.T. Program conducted jointly by Birla Science Center, Hyderabad and University of Udine, Italy. Taught the subject: Network Security during August – October 2004 and also during January – April 2006.

Designed the complete courseware on “Core Competency in Software Process Management” for e-learning portal of Center for Development of Advanced Computing (CDAC) Hyderabad. Regular interaction with the students is done through email and chat facilities. (www.elearn.cdacindia.com)

Invited lectures at ESCI, Hyderabad on the following topics

- “Software Project Planning” in the workshop on Software Project Management on 24th April 2007.
- “Wireless LAN and MAN technologies for wide area coverage” in the workshop on Wireless Technologies on 14th March 2007.
- “Cellular Mobile Communication Systems” in the workshop on Wireless technologies on 13th March 2007.
- “Wireless Technologies” in the workshop on Network Design on 14th December 2006.
- “DSP based Embedded Systems” in the workshop on Embedded Systems on 31st October 2006.
- “802.11/16 standards for wide area coverage” in the workshop on Wireless and Mobile Technologies, on 8th December 2005.
- “DSP-based Embedded Systems”, in the workshop on Embedded Systems on 17th November 2005.
- “Software Project Management”, “Software Project Planning” and “Software Testing” in the workshop on Software Engineering and Project Management, October 19-22, 2005.
- “Software Testing Types and Methods” in the workshop on Software Testing on 22nd August 2005.
- “Encryption Technologies” in the workshop on PKI and digital certificates on 10th January 2005.
- “DSP-based Embedded Systems” and “Emerging Applications of Embedded Systems” in the workshop on “Advances in Embedded System Technology”, 17-18 August 2004.
- “Digital Signal Processing” in the workshop on Embedded Systems Design during 24-25 November 2003.

- “Wireless Technologies and Trends” in the workshop on Network Design during 14-16 October 2003.
- “DSP applications in Speech processing and Software-defined Radio” in the workshop on Digital Signal Processing during 29th September – 1st October 2003.

Invited lectures at UGC-JNTU Academic Staff College, Hyderabad on the following topics:

- “Wireless Technologies and Protocols” in the workshop on Mobile Computing on 9th November 2004.
- “Computer networking”, “Internet/Web technologies” and “Artificial Intelligence” in February 2004 and March 2004.

Invited lectures on “Software Engineering” and “Wireless Technologies” at Nalanda Telematics and Informatics Limited, Hyderabad during August and September 2004.

Invited lectures at CDAC, Hyderabad on the following topics:

- Software Testing on 19th June 2007
- Software Quality Assurance on 18th June 2007
- Wireless LANs and PANs, on 18th May 2007
- Public Land Mobile Communication Systems on 14th May 2007
- Information Security on 5th March 2007
- Introduction to Linux Device Drivers on 1st March 2007.
- Engineering embedded systems on 22nd January 2007
- Wireless technologies on 12th January 2007
- Wireless technologies on 17th November 2006
- Engineering Embedded Systems on 21st December 2005.
- DSP Applications on 3rd December 2005
- Overview of DSP on 26th November 2005
- Next Big Things in Information Technology on 23rd August 2005.
- Software Engineering on 8th October 2004.
- Digital Signal Processing on 16th August 2004.
- Software Engineering on 5th June 2004.
- Digital Signal Processing on 21st April 2004.
- DSP applications in communications and speech processing, Software Defined Radio in the DSP workshop during 7-9 June 2003.

Special invitee to the Board of Studies meeting of ECE Department, JNTU Kukatpally for finalizing the B.Tech. and M.Tech. syllabi, 16-17th August 2005.

Invited lecture on Mobile satellite systems and broadcasting systems in the National Workshop on Mobile Computing held during 8-10 April 2003 at MJCET, Hyderabad.

Invited Lectures on mobile communications, wireless LANs, Personal Area Networks and Satellite communications on 30th and 31st December 2002 in the Refresher course on Mobile Computing and Web technologies organized by Andhra Mahila Sabha School of Informatics, Hyderabad.

Special Lectures on Telecom Systems, Wireless Technologies, Software Project Management and Embedded Systems for Diploma in Advanced Computing (DAC), Diploma in VLSI and Diploma in Embedded Systems Design students of CDAC, Hyderabad during the years 2000, 2001, 2002 and 2003, 2004 and 2005.

Member of the committee formed by CDAC, Hyderabad to design Diploma in Embedded Systems Design, during May – September 2001.

Conducted orientation program on Wireless Technologies and Software Engineering at Advanced Learning Centre of Portal Player Pvt. Ltd., Hyderabad on 16th July 2001 and 23rd August 2001.

Designed the Theory course for Data Communications and Networking Module for the Diploma in Advanced Computing course of Centre for Development of Advanced Computing, in November 2000.

Designed the training program on Telecom Software for Frontier Information Technologies Ltd., Hyderabad.

Designed the training program on Telecom and Embedded Systems for Nalanda Telematics and Informatics Limited, Hyderabad.

Conducted corporate training on Problem Solving in the UNIX environment for Avantel Softech Ltd., Hyderabad during 9-13 October 2000.

Conducted corporate training on Wireless Application Protocol: Content development and protocol architecture for Avantel Softech Ltd., Hyderabad during 3-6 October 2000.

Conducted orientation program on Wireless Technologies for employees of Portal Player Pvt. Ltd., Hyderabad on 15th and 18th September 2000.

Conducted orientation program on Software Engineering for employees of Portal Player Pvt. Ltd., Hyderabad during 6-7 September 2000.

Conducted corporate training on Wireless Application Protocol to Quantum Softech Limited, Hyderabad during 24-29 July 2000.

In-charge of Training Division of Innovation Communications Systems Ltd., Hyderabad since August 1998. Designed and taught the following courses: Software Engineering, Capability Maturity Model, Personal Software Process, Programming in C, Programming in Java, Relational Database Management Systems design and implementation.

Conducted workshop on ‘Advances in Computer Architecture’ along with Prof. J.S.R. Subrahmanyam on behalf of Birla Science Centre, Hyderabad at International Centre for Mechanical Sciences (CISM), Udine, Italy during October 18-22, 1999.

Visiting Professor, Birla Institute of Technology Extension Centre, Hyderabad from January 1999 to May 1999. Subject taught for M.Tech. part-time program: Data Communications and Networking.

Visiting Faculty Member, Centre for Development of Advanced Computing, Hyderabad, in the year 1999. Subject taught: Advanced Computer Networking.

Visiting Faculty Member, Metamor School of Excellence in Object Oriented Technologies from August 16, 1999 to September 3, 1999. Subject taught: Object Oriented Software Engineering.

Professor, Department of Computer Science and Engineering, M.S. Ramaiah Institute of Technology, Bangalore during May 1997 – July 1998. Subjects taught: Artificial Intelligence, Data Structures using C, Software Engineering, Compiler design, Problem Solving in UNIX, RDBMS using Oracle and Developer 2000.

SHORT TERM ASSIGNMENTS AS CONSULTANT

Development of learning material on Software Testing Tools for ISTE-WPLP (Indian Society for Technical Education-Working Professionals Learning Project (AICTE Project) Bangalore, during November 2005 – May 2006.

Consultant to National Institute of Technology (NIT) Warangal for the study project on Electronic Counter-Measures (“Study and simulation of smart jamming techniques for voice and data formatted signals under varying S/N conditions”) sponsored by DLRL-ELSEC, Hyderabad from October 2004 to December 2005.

Technical Editor for the book “Peer-to-Peer Application Development: Cracking the Code” for Hungry Minds Inc., USA (August 2001).

Technical Editor for the book “Wireless Projects using J2ME: Cracking the Code” for Hungry Minds Inc., USA (September 2001).

From October 2000 to March 2001, Consultant to Synfosis Business Systems Limited, Hyderabad. Duties: To develop capabilities in computer networking protocols and management of product development in the area of computer networking.

July to October 1999: Expert Consultant, B.M. Birla Science Centre Software Development Division, Hyderabad. Duties: Consultancy to Team Systems, Vienna, Austria for execution of projects to Liechtenstein Telecommunications on network management, introduction of new technologies and automatic workflow management.

January 1999 to December 1999: Consultant to Organon Management Services Pvt. Ltd., Secunderabad. Duties: Consultancy for execution of off-shore development project for ECET, Killarney, Ireland.

Member, Technical Committee for National Seminar on E-Learning and E-Learning Technologies (ELELTECH 2001) held on August 7-8, 2001 organized by Center for Development of Advanced Computing, Hyderabad.

Consultancy to a number of IT and Telecom companies in the following areas:

- Corporate planning and identification of new areas of business
- Preparation and evaluation of project proposals
- Quality standards implementation
- Corporate training on software engineering, CMM and PSP
- Personnel recruitment and conducting orientation programs
- Software project management in the areas of telecom software, data communication software and web content development.
- Software architecture/design and design reviews
- Software project planning and process auditing
- Market analysis/research and surveys
- HRD practices: recruitment, appraisal schemes and continuing education program design.

OTHER ACADEMIC/PROFESSIONAL ASSOCIATIONS

Member, Board of Studies, School of Informatics, JNTU, Hyderabad from 25th March 2007.

Member, Faculty of Informatics of Osmania University, Hyderabad from 28th October 2005 to 27th October 2007.

BOOKS WRITTEN

Software Testing Certification Study Guide: ISEB, ISTQB/ITB, QAI Certification, Dreamtech Press, New Delhi, December 2006. ISBN: 81-7722-532-4.

Data Warehouse Development Tools covering Informatica, Cognos, Business Objects and DataStage with Case Studies, Dreamtech Press, New Delhi, September 2005. ISBN: 81-7722-643-6.

Software Testing Tools, Dreamtech Press, New Delhi, 2004. ISBN: 81-7722-532-4. Revised 2005 Edition released in February 2005. Revised 2007 Edition released in June 2007.

Principles of Digital Communication Systems and Computer Networks, Charles River Media, Hingham, Massachusetts, USA, February 2004. ISBN: 1-58450-329-7. (Modified version of the book published by Dreamtech Press, for North American readership).

Embedded Systems: Concepts, Design and Programming—the Ultimate Reference, Dreamtech Press, New Delhi, 2003. ISBN: 81-7722-461-1. Revised 2005 Edition printed as “Black Book”, released in May 2005.

Principles of Digital Communication Systems and Computer Networks, Dreamtech Press, New Delhi, 2003. ISBN: 81-7722-362-3. Enlarged and Revised 2nd Edition released in August 2004.

Contributed to the book “Programming for Embedded Systems: Cracking the Code”, published by John Wiley & Sons Inc., June 2002. ISBN: 0-764-54954-5. Indian Edition published by Wiley-Dreamtech India Pvt. Ltd., New Delhi. ISBN: 81-265-0296-7.

Placement and Personality Development, Environmental Protection Society, Kakinada. (Co-author: K.V.S.G. Murali Krishna) First Edition, February 2002. ISBN: 81-901404-4-2. Second Edition, February 2003 ISBN: 81-901404-7-7.

Contributed 10 chapters to the book “WAP, Bluetooth and 3G Programming: Cracking the Code”, published by Hungry Minds Inc., USA, November 2001. ISBN 0-7645-4905-7. Indian Edition published by IDG Books India Pvt. Ltd. ISBN: 81-265-0232-0.

The Software Project Manager, published by ICS Ltd., August 2001. ISBN 81-87734-01-9.

The Complete Software Professional: The Roadmap for a Successful Career in Software Development, published by ICS Pvt. Ltd., November 1999. ISBN 81-87734-00-0.

COUNTRIES VISITED

USA, Nepal, Singapore, Taiwan, Ireland, U.K., Austria, Switzerland, Liechtenstein, Italy, Indonesia, Malaysia, Germany, Netherlands, Thailand.

CONTRIBUTIONS TO WEBSITES

The Indian Off-shore outsourcing Industry: The Good, The Bad and The Ugly, Ubiquity Volume 8, Issue 30 (July 31, 2007 - August 6, 2007) <http://www.acm.org/ubiquity>

A three-dimensional model for evaluating software development projects, Ubiquity, Vol. 6, Issue 38, Oct 19-25, 2005. <http://www.acm.org/ubiquity>

Running a Virtual Enterprise, Ubiquity, Vol. 4, Issue 8, Apr 16-22, 2003. <http://www.acm.org/ubiquity>

Are You Tough Enough? Personality Traits of Successful IT Professionals, Ubiquity Vol. 3, Issue 22, July 16-22, 2002. <http://www.acm.org/ubiquity>

A Telephone for Every Village, <http://www.indiaonline.com> January 17, 2000.

Computer System Architecture, <http://www.europeindia.org> July 2000.

ARTICLES PUBLISHED IN MAGAZINES/COMMERCIAL JOURNALS

SOS: Morse code is dashing to death! Telematics India, Vol. 12, Issue No. 7, April 1999, p. 29.

IPv6: The next generation protocol, i.t., Vol. 8, No. 5, March 1999, pp. 41-42.

IVR is the answer: Now what is the problem?, Voice+Asia Pacific, Vol. 5, No. 1, February 1999.

A WLL short-cut to connectivity, Asian Communications, Vol. 12, No. 11, November 1998, pp. 18-21.

Roadmap for a Career in Software Development, i.t., Vol. 7, No. 12, October 1998, pp. 76-78.

Navigation with the Global Positioning System, i.t., Vol. 7, No. 10, August 1998, pp. 70-71.

Intranets for Educational Institutions, i.t., Vol. 7, No. 10, August 1998, pp. 81-83.

CTI: India's Sleeping Tiger, Voice+Asia Pacific, Vol. 4, No. 1, February 1998, pp.39-41.

Internet beyond 2000 A.D., i.t., Vol. 7, No. 2, December 1997, pp.70-71.

Y2K: An opportunity amidst chaos, i.t., Vol. 6, No. 11, August 1997, pp. 20-21.

GSM is here, what next?, Telematics India, Vol. X, No. 11, August 1997, pp. 65-66.

Computer-Based Training, i.t., Vol. 6, No. 9, July 1997, pp. 22-23.

Is DOS Dead?. i.t., Vol. 6, No. 8, June 1997, pp. 19-20.

Designing User Interfaces, i.t., Vol. 6, No. 8, June 1997, pp. 21-23.

Multi-lingual Speech Systems, Voice+Asia Pacific, Vol. 3, No. 2, May 1997, pp. 28-30.

Telemedicine for Better Health-care, i.t., Vol. 6, No. 6, April 1997, pp. 18-19.

Measuring Knowledge, i.t, Vol. 6, No. 6, April 1997, p. 66.

Autobiography of an Atom, in the book 'From Atom to Nano-Tech', published by Children Book Trust, New Delhi, 1997, pp. 92-104.

Voice on Internet, i.t., Vol. 6. No. 2, December 1996, pp. 32-33.

Conformance Testing of Telecom Systems, Telematics India, Vol. X, No. 3, December 1996, pp. 62-63.

The top n, i.t., Vol. 5, No. 12, October 1996, pp. 84-85.

Cable TV Network: Gateway to Information Highway, Cable Quest, Vol. 3, Issue 6, September 1996, pp. 45-46.

Smart Cards: Towards a Cashless Society, Telematics India, Vol. IX, No. 11, August 1996, pp. 62-63.

Software SSIs need niche areas, Economic Times, Bangalore, 9 April 1996.

Interactive voice response systems, Telematics India, Vol. IX, No. 7, April 1996, pp. 51-53.

Bangalore, i.t., Vol. 5, No. 2, December 1995, p. 68.

Beware of Electromagnetic Pollution, Telematics India, Vol. VIII, No. 12, September 1995, pp. 60-61.

Software Reuse Engineering, i.t., Vol. 4, No. 3, January 1995, pp. 54-55.

Wireless Technologies for Rural Telecommunications, Radio Resource International, Vol. 8, No. 2, Quarter 2 1994, pp. 32-36. (Co-author: H.R. Parthasarathy).

Towards Global Personal Telecommunications, Telematics India, Vol. VII, No. 7, April 1994, pp. 16,18,19.

Lending a telematic hand, The Times of India, Bangalore, 2 April 1994.

Electronic and Telematic Aids for the Physically Handicapped, i.t., Vol. 3, No. 4, September 1993, pp. 26-28.

Electromagnetic Pollution Needs Further Study, Telematics India, Vol. VI, No. 9, June 1993, pp. 24-25.

Radio Spectrum Management, i.t., Vol. 3, No. 1, June 1993, pp. 35-37.

Local Loops: Popular but Costly, Telematics India, Vol. VI, No. 8, May 1993, pp. 57-60.

The (I)mitation Game, i.t., Vol. 2, No. 12, May 1993, pp. 29-31.

Whither Rural Telephones?, i.t., Vol. 2, No. 7, December 1992, pp. 89-90.

Transmitting Speech at Low Bit Rates: a Knowledge-Based Approach, i.t., Vol. 2, No. 2, July 1992, pp. 27-29.

Automatic Language Recognition, i.t., Vol. 1, No. 11, April 1992, pp. 84-85.

Automatic Speech Synthesis in Indian Languages, i.t., Vol. 1, No. 6, Nov 1991, pp. 85-88.

Low-cost Electronic Messaging Systems, Telematics India, Vol. IV, No. 9, June 1991, pp. 73-74. (Co-authors: M. Kishore, G.S. Raju)

New Trends in Rural Telecom, Telematics India, Vol. IV, No. 6, March 1991, pp. 46-47 (Co-authors: G.S. Raju and H.R. Parthsasarathy).

X.400 Message Handling Systems—an Overview, Infotel, Vol. II, Issue 1, April-June 1990, pp. 72-77. (Co-author: B.V. Naidu).

Networking Unix/Xenix systems through uucp, C & C, Vol. 3, No. 7, Sept. 1989, pp. 111-117 (Co-author: B.V. Naidu).

Computer Communication Standards, Telematics India, February 1989 (Co-author: B.V. Naidu).

Computer Networking: The Protocol Dilemma, Computerage, Vol. 6, No. 8, August 1988, pp. 17-19.

ISDN: An Indian Perspective, PLUS, Vol. V, No. 4, April 1988, pp. 57-60.

Speech Synthesis, Telematics India, Vol. 1, No. 6, March 1988, pp. 52-54 (Co-author: T.S. Lamba).

History of the Future, Science Today, Vol. 20, No. 1, January 1986, pp. 26-28.

Future trends in Computer-Aided-Entertainment, Everyman's Science, Vol. XX, No. 6, Dec 85-Jan 86, pp. 167-171.

UNIX: A User Perspective, Electrotechnology, Vol. XXIX, No. 4, December 1985, pp. 149-156 (Co-author: B.S. Katakol).

On Universal Languages, Language Universals and Language Understanding Machines, Everyman's Science, Vol. XIX, No. 6, Dec 84-Jan 85, pp. 367-369.

Male Voice versus Female Voice, Science Reporter, Vol. 21, No. 2, February 1984, pp. 78-79.

Information Content of Printed Matter, Science Reporter, Vol. 20, No. 1, January 1983, pp. 31-32.

PAPERS PUBLISHED IN RESEARCH JOURNALS

Matching People and Jobs: the I-CMM Proposal, IEEE Computer, Vol. 30, No. 11, December 1997, p. 10.

On the User Interfaces for Electronic Mail Systems, Telematics and Informatics, Vol. 7, No. 2, pp. 145-149, 1990.

Automatic Language Recognition based on Phonetic Structure of Languages, IJETE, Special Issue on Speech Processing, Vol. 34, No.1, Jan-Feb 1988, pp. 63-67 (co-author: T.S. Lamba).

Artificial Intelligence: Myth or Reality?, Electrotechnology, Vol. XXXI, No. 3 & 4, Sept and Dec 1987, pp. 109-113.

Natural Language Interface based on Keyword Extraction using awk, Microprocessors and Microsystems, Vol. 11, No. 3, April 1987, pp. 157-160 (Co-author: T.S. Lamba).

A Design Methodology for VLSI Implementation of Speech Recognition and Speech Synthesis Algorithms, in Microelectronics and Photonics, R.P. Bajpai (Ed), Siddharth Publications, New Delhi 1987, pp. 205-208 (Co-author: T.S. Lamba).

Natural Language Interface based on Keyword Extraction for Computer-Aided-Instruction in Speech Processing, CSI Communications, No. 92, April 1986, p. 37 (Co-author: T.S. Lamba).

Pronunciation Rules for Automatic Transliteration of Proper Nouns, CSI Communications, No. 91, March 1986, pp. 13-14 (Co-author: T.S. Lamba).

Automatic Transliteration of English Text into Phonetic Symbols, IETE Technical Review, Vol. 3, No. 2, February 1986, pp. 57-60. (Co-author: T.S. Lamba).

PAPERS PRESENTED AT CONFERENCES/WORKSHOPS

Invited lecture on “Challenges in Development of e-learning Portals for Globalization, Localization and Personalization”, India-ASEAN Seminar on e-learning and e-learning Technologies, held on 6-7 November 2006 conducted by CDAC Hyderabad.

Invited lecture on “Bridging the Gaps for a Universe in Unison” presented at the Indo-Italian Workshop on ‘IT: Education, Research and Industry’ held on 3rd October 2006 at Birla Science Centre, Hyderabad.

Invited lecture on “E-governance Security Standards and Issues, presented at the Workshop on E-governance Standards, held on 20th September 2006 by National Informatics Centre, Hyderabad.

Invited lecture on “Knowledge-driven Signal Processing Systems” in the workshop on Advances in Signal and Image Processing (ASIP 2006), JNTU Kakinada, 27-28 February 2006.

Invited lecture on “Ubiquitous computers and Location/Context-aware computing” in the National Workshop on Ubiquitous and Grid Computing, CDAC Hyderabad on 3rd January 2005.

Invited lecture on “Software Defined Radio”, National workshop on DSP Architectures and Applications, Bhoj Reddy College of Engineering for Women, Hyderabad, on 12th December 2004.

Invited lecture on “SCM: An SME Perspective”, National Workshop on Open Source Supply Chain Management Solutions for Industries to Enhance Productivity, held on 27th November 2004, Hyderabad.

Invited lecture on “Web content development in the era of Convergence”, Workshop on ICT for European Union-India Cross Cultural Dissemination” held at B.M. Birla Science Centre, Hyderabad during 8-11 November 2004.

Invited lecture on “Knowledge Acquisition in the era of Information Explosion”, Indo-Italian Workshop on IT: Education, Research and Industry, held at B.M. Birla Science Centre, 30th August – 3rd September 2004.

Security Considerations in Convergence Technologies, Enterprise Suraksha 2002, organized by CDAC and Department of Information Technology, 12th December 2002, Hyderabad.

e-learning: Technology versus Psychology, Workshop on e-learning through web technologies, CDAC Hyderabad, 11th July 2002.

XML: Hope and Hype, Workshop on Advanced XML Programming, CDAC Hyderabad, 4th February, 2002.

Wireless Application Protocol, AICTE-ISTE Workshop on Internetworking, JNTU, Hyderabad, 25th January 2002.

Virtual Class Room is the Solution, now What is the Problem?, AICTE-ISTE Workshop on Technical Education: Virtual Class Room Technologies and Techniques, Regional Engineering College, Warangal, 9th January 2002.

Building Careers...Click by Click, Invited talk at National Seminar on E-learning and E-learning Technologies (ELELTECH 2001), conducted by Centre for Development of Advanced Computing, Hyderabad during August 7-8, 2001 at Hyderabad.

Pedagogical Issues in Web Based Learning, Workshop on Web Technologies and Web Based Learning, Centre for Development of Advanced Computing, Hyderabad, 15-19 May 2000.

Introducing Personal Communication Services in the Developing Countries: Alternatives and Issues, IEE International Conference on Mobile Radio and Personal Communications (MRPC 91), University of Warwick, 9-12 Dec 1991 (Co-author: G.S. Raju).

TDMA-PMP Radio Trunking Systems for Rural Telecommunications, IETE All India Seminar on Electronics and Telecommunications for Rural Development, Bangalore, 22-24 Nov 1990 (Co-author: G.S. Raju).

A TDMA Point-to-Multipoint Rural Radio System for Trunking and Local Loop Applications, Second IEE International Conference on Rural Telecommunications, London 29-31 October 1990 (Co-author: G.S. Raju).

Trends in Mobile Communications and Radio Paging Systems, IETE Symposium on Telecom Management for Business and Industry, Bombay, 8-9 December 1989 (Co-author: G.S. Raju).

Transmission Technologies for Rural Communication Systems, Seminar on Rural Communications, National Telematics Forum, Delhi, October 1989 (Co-author: G.S. Raju).

Experiments on Automatic Transliteration of Text into Phonetic Symbols, IEE International Symposium on Speech input/output, Techniques and Applications, London, March 1986 (Co-author: T.S. Lamba).

Synthesis of Speech in Indian Languages—Experiments on Automatic Transliteration and Generalised Phoneme Vocoder, presented at 73rd Indian Science Congress, Delhi, January 1986.

Analysis of Languages based on a Quantitative-Qualitative Measure of Information, IEEE International Symposium on Information Theory, Brighton, June 1985 (Co-author: T.S. Lamba).

Total Publications: 93

DOCTORAL STUDENTS

Ms. R. Hema, ECE Department, JNTU on Software radio (2007).

Ms. D. Jamuna, CSE Department, CSE Department, OU on CDMA (2006).

Mr. Durga Prasad, J.N.T.U., Hyderabad, on asset management for efficient power distribution (2005).

Mr. K.N.B. Kumar, J.N.T.U., Hyderabad, on wireless communication (2005).

Ms. K. Radhika, Osmania University, Hyderabad on Software-Defined Radio (2005)

Mr. Sivarama Krishnam Raju, JNTU, Hyderabad on wireless communication (2005).

Mr. Moiz Khaiser, Osmania University, on software engineering (2001).

Mr. B.V. Naidu, BITS, Pilani on Global Information Infrastructure (1997).

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