

# RESUME

## Personal details

Faculty	<b>Electronics and Communication Engineering</b>		
Name of the candidate	<b>ANIL KUMAR</b>	Surname	<b>TIPPARTI</b>
Father's Name	<b>ANANDAM</b>	Gender	<b>MALE</b>
Father's Occupation	<b>RETIRED TEACHER</b>	Present Designation	<b>PROFESSOR</b>
Date of Birth	<b>04/ 25/ 1974</b>	Place of Birth	<b>KARIMNAGAR</b>
District of Birth	<b>KARIMNAGAR</b>	State of Birth	<b>TELANGANA</b>

## Address for Correspondence

House No.	<b>1-326</b>	Village/ Locality	<b>BHEEMARAM</b>
Mandal/ City	<b>HASSANPARTHY, HANAMKONDA</b>	District	<b>WARANGAL</b>
State	<b>TELANGANA</b>	Pin Code	<b>506 015</b>
Mobile Number	<b>09985409258</b>	E-mail:	<b>tvakumar2000@yahoo.co.in</b>

## Education Details

Name of the Exam/ Degree	Name of the School/ College and Place	Name of the Board/ University	Year in which Degree/ Diploma has been obtained	Percentage of marks	Specialization
SSC	GOVT. HIGH SCHOOL, KUMARWADI, KARIMNAGAR	BOARD OF SECONDARY EDUCATION	1989	FIRST (77%)	ALL
INTERMEDIATE	NAVODAYA JUNIOR COLLEGE, HYDERABAD	BOARD OF INTERMEDIATE EDUCATION	1991	FIRST (77%)	MPC
BE	MVSR ENGINEERING COLLEGE, NADERGUL, HYDERBAD	OSMANIA UNIVERSITY	1995	FIRST (68%)	ECE
MTECH	NIT, KURUKSHETHRA	KURUKSHETHRA	2002	FIRST (66%)	ECE
PHD	OSMANIA UNIVERSITY, HYDERBAD		2009		ECE
	<b>A NEW ROBUST TECHNIQUE AND ITS PERFORMANCE ANALYSIS FOR MULTIUSER DETECTION IN NON-GAUSSIAN CHANNELS</b>				

**EMPLOYMENT HISTORY:**

<b>NAME OF THE INSTITUTION</b>	<b>POST HELD</b>	<b>REGULAR/ TEMPORARY</b>	<b>FROM</b>	<b>TO</b>
JNTU, HYDERABAD	TEACHING ASSISTANT	ADHOC	01/08/1995	09/08/1996
REC, WARANGAL	LECURER	ADHOC	10/08/1996	17/02/1998
KITS, WARANGAL	ASSISTANT PROFESSOR	REGULAR/  KAKATIYA UNIVERSITY RATIFIED	18/02/1998	27/03/2009
RRS COLLEGE OF ENGINEERING & TECHNOLOGY, MUTHANGI, PATANCHERU	PROFESSOR & HEAD	REGULAR	30/03/2009	29/03/2010
TRR ENGINEERING COLLEGE, INOLE, PATANCHERU	PROFESSOR & PRINCIPAL	REGULAR/  JNTUH UNIVERSITY RATIFIED	30/03/2010	27/09/2012
ANURAG COLLEGE OF ENGINEERING, AUSHAPUR, RANGA REDDY	PROFESSOR & PRINCIPAL	REGULAR/  JNTUH UNIVERSITY RATIFIED	01/10/2012	30/05/2013
SR ENGINEERING COLLEGE, WARANGAL	PROFESSOR	REGULAR	31/05/2013	31/08/2015
SVSGOI, BHEEMARAM, WARANGAL	PROFESSOR & DIRECTOR	REGULAR  JNTUH UNIVERSITY RATIFIED	1/09/2015	31/07/2016
MVSR ENGINEERING COLLEGE, NADERGUL, HYDERABAD	PROFESSOR	ADHOCH	02/08/2016	07/10/2017
CMR COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD	PROFESSOR	REGULAR	09/10/2017	22/02/2018
CMR INSTITUTE OF TECHNOLOGY, HYDERABAD	PROFESSOR	REGULAR	22/02/2018	TILL DATE

**CATEGORY: CO-CURRICULAR, EXTENSION, PROFESSION DEVELOPMENT RELATED ACTIVITIES**

S.No.	Type of Activity	Justification
1	Students related co-curricular activities? (subject related events advise and counseling)	<ul style="list-style-type: none"> <li>INVOLVED IN SYLLABUS FRAMING AS ECE BOARD OF STUDIES MEMBER IN KAKATIYA UNIVERSITY AND JNTUH.</li> <li>ORGANIZED TUTORIALS/ GUEST LECTURES/ WORKSHOPS/ SYMPOSIA/ CONFERENCES AS A HEAD OF THE DEPARTMENT, PRINCIPAL AND DIRECTOR.</li> </ul>
	Field based activities through NSS/ NCC and other channels	<ul style="list-style-type: none"> <li>RESPONSIBLE FOR STARTING NSS UNITS &amp; NCC CELLS AT ANURAG COLLEGE OF ENGINEERING &amp; TRREC &amp; SVSGOI.</li> <li>CONDUCTED 1-WEEK SPECIAL CAMP UNDER TRREC NSS UNIT, JNTUH.</li> </ul>
2	Contribution to Corporate Life and Management of the through academic committees Administrative Committees responsibilities	<ul style="list-style-type: none"> <li>RESPONSIBLE FOR FORMING IEEE, ISTE, IETE, ASME &amp; CSI STUDENT CHAPTERS/ SECTIONS AS BRANCH COUNSELLOR/ CHAIRMAN AT RRSCET, TRREC &amp; ANURAG COLLEGE OF ENGG.</li> <li>CONDUCTED PROFESSIONAL EVENTS IN ALL DISCIPLINES OF ENGINEERING</li> </ul>
3	Seminars and Conferences	REGULAR CONDUCTION & PARTICIPATION IN TUTORIALS/ SEMINARS/ CONFERENCES/ SYMPOSIA/ WORKSHOPS AT NATIONAL & INTERNATIONAL LEVEL
4	Short term and Training Courses	REGULAR CONDUCTION AND PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMS/ SHORT TERM TRAINING PROGRAMS
5	Talks & Lectures	REGULAR DELIVERY OF TUTORIALS/ INVITED TALKS & EXPERT LECTURES
6	Membership of Associates	<ul style="list-style-type: none"> <li>SENIOR MEMBER OF IEEE &amp; TPC MEMBER</li> <li>FELLOW OF IETE</li> <li>LIFE MEMBER OF ISTE</li> <li>ASSOCITE OF IEI</li> <li>SCIENTIFIC BOARD MEMBER OF IIE</li> </ul>
7	General articles	PREPARATION OF ESSAYS AND SCRIPTS ON GENERAL ISSUES AND CONDUCTION OF SOCIAL AWARENESS PROGRAMS

**CATEGORY: Research Publications in International Journals: 40**

S.N O.	AUTHOR NAMES	JOURNAL NAME	TITLE OF THE PAPER
1	T.ANILKUMAR& K.DHEERGA RAO	CIRCUITS SYSTEMS AND SIGNAL PROCESSING, PP. 463-482, JULY 2006.	IMPROVED ROBUST TECHNIQUES FOR MULTIUSER DETECTION IN NON-GAUSSIAN CHANNELS
2	T.ANIL KUMAR& K.DHEERGA RAO	IEEE TRANSACTIONS ON COMMUNICATIONS, PP. 1908-1913, JULY, 2009.	A NEW M-ESTIMATOR BASED ROBUST MULTIUSER DETECTION IN FLAT-FADING NON-GAUSSIAN CHANNELS
3	T.ANIL KUMAR, P. VINAY KUMAR, V. SRINIVASA RAO, S. BALAJI & HABIBULLAKHAN	TRANSTECH PUBLICATIONS, PP 43- 50, JUNE, 2012.	ROBUST MULTIUSER DETECTION IN SYNCHRONOUS DS-CDMA SYSTEM WITH MRC DIVERSITY OVER NAKAGAMI-M FADING
4	T.ANIL KUMAR, P. RAM CHANDAR RAO, M. SAMPATH REDDY & K. SRINIVAS RAO	INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY, VOL. 2, PP. 1115-1120, SEPTEMBER, 2013.	PERFORMANCE ANALYSIS OF VARIOUS SNR ESTIMATION TECHNIQUES UNDER DIFFERENT WIRELESS OFDM CHANNELS
5	P.KRISHNA, K.KISHAN RAO & T.ANIL KUMAR	INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER & COMMUNICATION TECHNOLOGY, VOL. 2, PP. 936-942, OCTOBER 2013	NOVEL STUDY OF SCHEDULING STRATEGIES FOR MULTIUSER MIMO OFDM SYSTEMS WITH LIMITED FEEDBACK
6	T.ANIL KUMAR, P. VINAY KUMAR, V. SRINIVASA RAO & HABIBULLAKHAN	INTERNATIONAL JOURNAL OF ELECTRICAL ENERGY, VOL. 2, PP. 23-27, MARCH 2014	MULTIUSER DETCTION FOR DS-CDMA SYSTEMS ON NAKAGAMI-0.5 FADING CHANNELS WITH IMPULSIVE NOISE
7	V. RAMA KRISHNA & T ANIL KUMAR	SPRINGER AISC SERIES, VOL. 327/328, PP. 81-88, NOV. 2014.	VLSI IMPLEMENTATION OF MAXIMUM LIKELIHOOD MIMO DETECTION ALGOITHM
8	P. KRISHNA, K.KISHAN RAO & T.ANIL KUMAR	INTERNATIONAL JOURNAL OF ELECTRONICS COMMUNICATION AND COMPUTER ENGINEERING, VOL. 5, OCTOBER 2014.	OPTIMAL PERFORMANCE OF OFDM SIGNAL USING PAPR REDUCTION TECHNIQUES IN LTE SYSTEMS
9	P KRISHNA, T.ANIL KUMAR & K.KISHAN RAO	JOURNAL OF ELECTRONIC SYSTEMS, VOL. 5, SEPTEMBER 2014.	CARRIER FREQUENCY SYNCHRONIZATION IN OFDM-DOWNLINK LTE SYSTEMS
10	P KRISHNA, T.ANIL KUMAR & K.KISHANRAO	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES, DEC. 2014.	MULTI USER MIMO TRANSMISSION MODES FOR TRANSMIT DIVERSITY AND SPATIAL MULTIPLEXING IN LONG TERM EVOLUTION-LTE
11	S.UMA MAHESWAR, T. ANIL KUMAR & K.SRINIVASA RAO	INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH, VOL. 10, NO. 70, 2015.	LIMITED FEEDBACK BLOCK DIAGONALIZATION IN MULTIUSER MIMO DOWNLINK CHANNELS
12	V. SRINIVASA RAO, T.ANIL KUMAR & HABIBULLA KHAN	INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY, APRIL 2015.	PSO BASED MULTIUSER DETECTION OVER GK FADING CHANNELS WITH MRC RECEIVE DIVERSITY IN IMPULSIVE NOISE
13	L. RAJU & T. ANIL KUMAR	INTERNATIONAL JOURNAL & MAGAZINE OF ENGINEERING,TECHNOLOGY, MANAGEMENT AND RESEARCH, VOL. 2, ISSUE 6, JUNE 2015.	FPGA IMPLEMENTATION OF EFFICIENT CARRY-SELECT ADDER USING VERILOG HDL
14	P. KRISHNA, T.ANIL KUMAR & K.KISHAN RAO	JOURNAL OF MOBILE COMMUNICATIONS, PP 1-7, 2015.	BLOCK DIAGONALIZATION WITH LIMITED FEEDBACK IN MULTIUSER MIMO DOWNLINK CHANNELS-LONG TERM EVOLUTIONS

15	P KRISHNA, T.ANIL KUMAR & K.KISHAN RAO	INTERNATIONAL JOURNAL OF COMMUNICATIONS, NETWORK AND SYSTEM SCIENCES, VOL. 8, PP.58-61,2015	THROUGHPUT EVALUATION OF DOWNLINK MULTIUSER-MIMO OFDM-LTE SYSTEM
16	V. SRINIVASA RAO, T.ANIL KUMAR & HABIBULLA KHAN	JOURNAL OF COMMUNICATIONS VOL. 11, NO. 1, JANUARY 2016	MULTIUSER DETECTION USING PARTICLE SWARM OPTIMIZATION OVER FADING CHANNELS WITH IMPULSIVE NOISE
17	G.RAJENDER, T.ANIL KUMAR & K.SRINIVASA RAO	IOSR JOURNAL OF ELECTRONICS & COMMUNICATION ENGINEERING, VOL. 11, ISSUE 3, PP 1-8, MAY/ JUNE 2016	CHANNEL ESTIMATION IN MIMO-COMMUNICATION USING RECURSIVE KALMAN FILTRATION
18	V.SRINIVASA RAO, T.ANIL KUMAR & HABIBULLA KHAN	INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY, VOL. 9, JULY 2016	MULTIUSER DETECTION OVER GENERALIZED-K FADING CHANNELS WITH LAPLACE NOISE
19	B.SREEDEVI, T ANIL KUMAR & K.KISHAN RAO	INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY, VOL 9, DOI: 10.17485/IJST/2016/V9I44/101704, NOVEMBER 2016	A NOVEL DENOISING AND SEGMENTATION OF BRAIN TUMORS IN MRI IMAGES
20	V.RAMA KRISHNA & T ANIL KUMAR	ELSEVIER ENERGY PROCEDIA, ISSN: 1876-6102, 2017 <a href="http://WWW.SCIENCEDIRECT.COM">WWW.SCIENCEDIRECT.COM</a>	LOW COMPLEXITY AND HIGH PERFORMANCE SPHERE DETECTION TECHNIQUE FOR MIMO COMMUNICATION SYSTEMS
21	V.RAMA KRISHNA & T. ANIL KUMAR	ELSEVIER MATERIALS TODAY: PROCEEDINGS 2016, ISSN 2214-7853 <a href="http://WWW.SCIENCEDIRECT.COM">WWW.SCIENCEDIRECT.COM</a>	DESIGN OF MIMO K-BEST DETECTION ALGORITHM AND ITS FPGA IMPLEMENTATION
22	P. KRISHNA, T.ANIL KUMAR & K.KISHAN RAO	INTERNATIONAL JOURNAL OF ADVANCED ENGINEERING RESEARCH AND SCIENCE (IJAERS)	A REVIEW ON IMPORTANCE OF IMPROVING SPECTRAL EFFICIENCY IN MASSIVE MIMO COMMUNICATIONS
23	P. KRISHNA, K.KISHAN RAO & T.ANIL KUMAR	CSI TRANSACTIONS ON ICT, BEING PUBLISHED BY SPRINGER	PERFORMANCE STUDY OF COOPERATIVE RELAY ASSISTED TRANSMISSION MODELS IN LTE SYSTEM
24	P. KRISHNA, T.ANIL KUMAR & K.KISHAN RAO	JOURNAL OF SIGNALS AND TELECOMMUNICATIONS, SEPTEMBER 2015	PERFORMANCE STUDY OF LONG TERM EVOLUTION DOWNLINK WITH MULTIUSER MIMO TECHNIQUES
25	P. KRISHNA, T.ANIL KUMAR & K.KISHAN RAO	INTERNATIONAL JOURNAL OF SIGNAL PROCESSING, IMAGE PROCESSING AND PATTERN RECOGNITION(IJSIP)	M-QAM BER AND SER ANALYSIS OF MULTIPATH FADING CHANNELS IN LONG TERM EVOLUTIONS(LTE)
26	M. SAMPATH REDDY, T. ANIL KUMAR AND K. SRINIVASA RAO	I J C T A, 10(8), 2017, PP. 329-341 ISSN: 0974-5572 © INTERNATIONAL SCIENCE PRESS	PERFORMANCE ANALYSIS OF MAXIMAL SPECTRAL EFFICIENCY FOR MULTI-CELL MASSIVE MIMO SYSTEMS
27	UMAMAHESHWAR SOMA1, TIPPARTI ANIL KUMAR AND KUNUPALLI SRINIVASA RAO	I J C T A, VOL. 10, NO 21, 2017, PP. 79-87 ISSN: 0974-5572 © INTERNATIONAL SCIENCE PRESS	STUDY AND IMPROVEMENTS OF CAPACITY BOUNDS OF SPATIAL MULTIPLEXING MIMO SYSTEMS WITH HARDWARE IMPAIRMENTS
28	K. MAHENDER, T. ANIL KUMAR & K. S. RAMESH	INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH(IJAER), VOL. 12, 2017	PERFORMANCE STUDY OF OFDM OVER MULTIPATH FADING CHANNELS FOR NEXT WIRELESS COMMUNICATIONS
29	K. MAHENDER, T. ANIL KUMAR & K. S. RAMESH	JOURNAL OF ADVANCED RESEARCH IN DYNAMICAL AND CONTROL SYSTEMS, VOL. 9, 2017	SER AND BER PERFORMANCE ANALYSIS OF DIGITAL MODULATION SCHEME OVER MULTIPATH FADING CHANNEL
30	K. MAHENDER, T. ANIL KUMAR & K. S. RAMESH	JOURNAL OF ADVANCED RESEARCH IN DYNAMICAL AND CONTROL SYSTEMS,SPECIAL ISSUE 14, 2017	AN EFFICIENT OFDM SYSTEM WITH REDUCED PAPR FOR COMBATING MULTIPATH FADING
31	K. MAHENDER, T. ANIL KUMAR & K. S. RAMESH	INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY, VOL. 7., PP. 487-490, 2018	PAPR ANALYSIS OF FIFTH GENERATION MULTIPLE ACCESS WAVEFORMS FOR ADVANCED WIRELESS COMMUNICATION

32	S. UMAMAHESWAR, T. ANIL KUMAR & K. SINIVASA RAO	INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY, VOL. 7., PP 752-74, PP. 487-490, 2018	PERFORMANCE OF MIMO DETECTION TECHNIQUES WITH SPATIAL MULTIPLEXING
33	C. VENKATESWARLU and T. ANIL KUMAR	INTERNATIONAL JOURNAL OF INTELLIGENT ENGINEERING AND SYSTEMS	LOW COST FPGA IMPLEMENTATION OF RFIR FILTER BASED ON A RADIX-4 ALGORITHM
34	K. MAHENDER, T. ANIL KUMAR & K. S. RAMESH	ADVANCES IN INTELLIGENT SYSTEMS AND COMPUTING, 2019	SIMPLE TRANSMIT DIVERSITY TECHNIQUES FOR WIRELESS COMMUNICATIONS
35	P. VINAY KUMAR & T. ANIL KUMAR	IEICE COMMUNICATIONS EXPRESS, VOL.7, 369-375, 2017	PERFORMANCE OF SELECTION COMBINER OVER NAKAGAMI FADING CHANNEL WITH LAPLACE COCHANNEL INTERFERENCE
36	C.VENKATESHWARLU & T. ANIL KUMAR	INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, VOL. 120, 363-370, 2018	DESIGN OF THE RADIX BASED FIR FILTER WITH AREA EFFICIENT
37	K. MAHENDER, K. RAMESH & T. ANIL KUMAR	INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, VOL. 114, 97-107, 2017	PERFORMANCE ANALYSIS OF K-BEST SPHERE DECODER ALGORITHM FOR SPATIAL MULTIPLEXING MIMO SYSTEMS
38	M. SAMPATH REDDY, T. ANIL KUMAR AND K. SRINIVASA RAO	INDIAN J.SCI.RES. 14 (2): 21-28, 2017	K-BEST SPHERE DECODER ALGORITHM FOR SPATIAL MULTIPLEXING MIMO SYSTEMS
39	P. KRISHNA, T.ANIL KUMAR & K.KISHAN RAO	INDIAN J.SCI.RES. 14 (2): 01-05, 2017	COMPARATIVE STUDY OF SPECTRAL EFFICIENCY ANALYSIS IN MIMO COMMUNICATIONS
40	S. UMAMAHESWAR, T. ANIL KUMAR & K. SINIVASA RAO	INDIAN J.SCI.RES. 14 (2): 15-20, 2017	A ROBUST STUDY OF SPECTRAL EFFICIENCY FOR SPACE CONSTRAINED MASSIVE MIMO SYSTEM

### CATEGORY: Publications in International Conferences, Workshops & Symposia: 57

S.NO	AUTHOR NAMES	CONFERENCE NAME	TITLE OF THE PAPER
1	T.ANIL KUMAR K.DHEERGA RAO & M. N. S. SWAMY	THE 2004 47TH MIDWEST SYMPOSIUM ON CIRCUITS AND SYSTEMS, 25 <sup>TH</sup> -28 <sup>TH</sup> JULY, MWSCAS '04.	A ROBUST TECHNIQUE FOR MULTIUSER DETECTION IN NON GAUSSIAN CHANNELS
2	T.ANIL KUMAR &K.DHEERGA RAO	IEEE 3 <sup>RD</sup> INTERNATIONAL CONFERENCE ON SYSTEMS, SIGNALS AND DEVICES, SOUSSE, TUNISIA, 21 <sup>ST</sup> -24 <sup>TH</sup> MARCH, 2005	A NEW M-ESTIMATOR BASED ROBUST MULTIUSER DETECTION IN NON - GAUSSIAN CHANNELS
3	T.ANIL KUMAR & K.DHEERGA RAO	IEEE 7 <sup>TH</sup> EMERGING TECHNOLOGIES WORKSHOP: CIRCUITS AND SYSTEMS FOR 4G MOBILE WIRELESS COMMUNICATIONS, ST. PETERSBURG, RUSSIA, 23 <sup>RD</sup> - 24 <sup>TH</sup> JUNE, 2005.	NEW M- ESTIMATOR BASED ROBUST MULTIUSER DETECTION IN FLAT-FADING SYNCHRONOUS NON-GAUSSIAN CHANNELS
4	T.ANIL KUMAR & K.DHEERGA RAO	IEEE 48 <sup>TH</sup> MIDWEST SYMPOSIUM ON CIRCUITS AND SYSTEMS, OHIO, 7 <sup>TH</sup> - 10 <sup>TH</sup> AUGUST, 2005.	IMPROVED ROBUST BLIND MULTIUSER DETECTION IN FLAT FADING NON-GAUSSIAN CHANNELS
5	T.ANIL KUMAR & K.DHEERGA RAO	IEEE 2 <sup>ND</sup> INTERNATIONAL CONFERENCE ON WIRELESS COMMUNICATION SYSTEMS, SIENA, ITALY, 5 <sup>TH</sup> - 7 <sup>TH</sup> SEPTEMBER, 2005.	IMPROVED ROBUST MULTIUSER DETECTION IN FLAT FADING ASYNCHRONOUS NON-GAUSSIAN CHANNELS
6	T.ANIL KUMAR & K.DHEERGA RAO	IEEE ASIA PACIFIC CONFERENCE ON CIRCUITS AND SYSTEMS, SINGAPORE, 5 <sup>TH</sup> - 8 <sup>TH</sup> DECEMBER, 2006	A NEW CHOICE OF INFLUENCE FUNCTION FOR ROBUST MULTIUSER DETECTION IN NON-GAUSSIAN CHANNELS
7	T.ANIL KUMAR & K.DHEERGA RAO	IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, NEW ORLEANS, 27 <sup>TH</sup> -30 <sup>TH</sup> MAY, 2007.	BREAKDOWN POINT ANALYSIS OF A NEW M-ESTIMATOR FOR ROBUST MULTIUSER DETECTION IN NON-GAUSSIAN CHANNELS
8	T.ANIL KUMAR, M.	IEEE SYMPOSIUM ON SIGNAL	ROBUST SPECTRUM ESTIMATION

	SREELATHA & SHAMLA MAHTUR	PROCESSING AND WIRELESS COMMUNICATIONS, LONDON, 4 <sup>TH</sup> -7 <sup>TH</sup> JUNE, 2007.	USING MULTIRATE OBSERVATIONS
9	T.ANIL KUMAR & K.DHEERGA RAO	IEEE SYMPOSIUM ON SIGNAL PROCESSING AND WIRELESS COMMUNICATIONS, LONDON, 4 <sup>TH</sup> -7 <sup>TH</sup> JUNE, 2007.	A NEW M- ESTIMATOR BASED ROBUST ADAPTIVE MMSE/DFE MULTIUSER DETECTION IN FLAT-FADING NON-GAUSSIAN CHANNELS
10	T.ANIL KUMAR & K. DEERGHARAO	IEEE ASIA PACIFIC CONFERENCE ON CIRCUITS AND SYSTEMS, MACAO, 7 <sup>TH</sup> - 10 <sup>TH</sup> OCTOBER, 2008.	A NEW M-ESTIMATOR FOR PERFORMANCE ANALYSIS OF CELLULAR DIGITAL MOBILE RADIO SYSTEMS INCLUDING DIVERSITY TECHNIQUE
11	T.ANIL KUMAR, M. SREELATHA & SHAMLA MAHTUR	IEEE INTERNATIONAL CONFERENCE ON SIGNAL ACQUISITION AND PROCESSING (ICSAP 2009), KUALA LUMPUR, MALAYSIA, APRIL 3-5, 2009.	A ROBUST TECHNIQUE FOR POWER SPECTRUM ESTIMATION USING MULTIRATE OBSERVATIONS
12	T.ANIL KUMAR	IEEE INTERNATIONAL CONFERENCE ON SIGNAL ACQUISITION AND PROCESSING (ICSAP 2009), KUALA LUMPUR, MALAYSIA, APRIL 3-5, 2009.	A ROBUST MULTIUSER DETECTION BASED SCHEME FOR CROSSTALK MITIGATION IN DMT VDSL WITH NON-GAUSSIAN NOISE
13	T. ANIL KUMAR, K. VIDYULLATHA, S. TEJASWI & V. HARISH	INTERNATIONAL CONFERENCE ON ANTI-COUNTER FEITING, SECURITY & IDENTIFICATION (ICASID 2009), HONGKONG, 20-22 AUG 2009.	IMPROVED MULTIUSER DETECTION IN ASYNCHRONOUS FLAT-FADING NON-GAUSSIAN CHANNELS
14	T.ANIL KUMAR, M. SREELATHA & SHAMLA MAHTUR	INTERNATIONAL CONFERENCE ON ANTI-COUNTER FEITING, SECURITY & IDENTIFICATION (ICASID 2009), HONGKONG, 20-22 AUG 2009.	A NEW TECHNIQUE FOR POWER SPECTRUM ESTIMATION USING MULTIRATE OBSERVATIONS
15	T.ANIL KUMAR & K. VIDYULLATHA, R. NIRMALA DEVI & K. KISHAN RAO	INTERNATIONAL CONFERENCE ON ADVANCED COMPUTER THEORY AND ENGINEERING (ICACTE 2009), CAIRO, EGYPT, 25-27 SEPTEMBER 2009.	A NEW UPDATING ALGORITHM FOR BLIND MULTUSER DETECTION IN IMPULSIVE NOISE
16	T.ANIL KUMAR, R. NIRMALA DEVI & HABBIBULLA KHAN	10TH INTERNATIONAL CONFERENCE ON INFORMATION SCIENCES SIGNAL PROCESSING AND THEIR APPLICATIONS (ISSPA), 10-13 MAY 2010.	IMPROVED ADAPTIVE ALGORITHM FOR BLIND MULTIUSER DETECTION IN NON-GAUSSIAN NOISE
17	P.VINAY KUMAR, T.ANIL KUMAR & V. SRINIVASA RAO	IEEE 7 <sup>TH</sup> INTERNATIONAL SYMPOSIUM ON IMAGE AND SIGNAL PROCESSING AND ANALYSIS (ISPA 2011), DUBROVNIK, CROATIA, 4-6 SEPTEMBER, 2011.	BIT ERROR PROBABILITY OF M-ARY PHASE SHIFT KEYING WITH MRC RECEIVE DIVERSITY OVER NAKAGAMI-M FADING CHANNEL
18	P.VINAY KUMAR, T.ANIL KUMAR & HABBIBULLA KHAN	2 <sup>ND</sup> INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ICEEE 2011), MACAU, CHINA, 1-2 DEC, 2011.	BIT ERROR PROBABILITY OF M-ARY PSK WITH MRC DIVERSITY RECEPTION OVER NAKAGAMI-M FADING CHANNEL USING SIMPLE BOUNDS ON GAUSSIAN Q-FUNCTION
19	P.VINAY KUMAR, T.ANIL KUMAR, HABBIBULLA KHAN, V. SRINIVASA RAO & S. BALAJI	2 <sup>ND</sup> INTERNATIONAL CONFERENCE ON PERVASIVE AND EMBEDDED COMPUTING AND COMMUNICATION (PECCS 2012), ROME, ITALY, 24-26 FEBRUARY, 2012.	A ROBUST TECHNIQUE FOR MULTIUSER DETECTION IN THE PRESENCE OF SIGNATURE UNCERTAINTIES
20	P.VINAY KUMAR, T.ANIL KUMAR, HABBIBULLA KHAN, V. SRINIVASA RAO & S. BALAJI	2012 INTERNATIONAL CONFERENCE ON SMART TECHNOLOGIES FOR MATERIALS AND COMMUNICATION (ICSTMC 2012), MACAU, CHINA, 1-2 APRIL, 2012.	ROBUST MULTIUSER DETECTION IN SYNCHRONOUS DS-CDMA SYSTEM WITH MRC RECEIVE DIVERSITY OVER NAKAGAMI-M FADING CHANNEL
21	P.KRISHNA, K.KISHAN RAO & T.ANIL KUMAR	IEEE INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING, COMMUNICATIONS AND COMPUTING (ICSPCC 2012), HONG KONG, 12-15 <sup>TH</sup> AUGUST 2012.	PERFORMANCE EVALUATION OF RATE LESS CHANNEL CODING FOR MU-MIMO OFDM-LTE SYSTEMS

22	V.SRINIVASA RAO, T.ANIL KUMAR, P. VINAY KUMAR & HABBIBULLA KHAN	IEEE 6 <sup>TH</sup> INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATION SYSTEMS (ICSPCS 2012), GOLD COAST, AUSTRALIA, 12-14 DECEMBER, 2012.	ROBUST BLIND MULTIUSER DETECTION IN DS-CDMA SYSTEMS OVER NAKAGAMI-M FADING CHANNELS WITH IMPULSIVE NOISE INCLUDING MRC RECEIVE DIVERSITY
23	V.SRINIVASA RAO, T.ANIL KUMAR & HABBIBULLA KHAN	4TH INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS, MODELLING AND SIMULATION (ISMS 2013), BANGKOK, THAILAND, 29-31 JANUARY 2013.	BLIND MULTIUSER DETECTION IN NAKAGAMI-M FADING CHANNELS WITH IMPULSIVE NOISE
24	V. RAMA KRISHNA & T ANIL KUMAR	4TH INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS, MODELLING AND SIMULATION (ISMS 2013), BANGKOK, THAILAND, 29-31 JANUARY 2013.	LOW POWER VLSI IMPLEMENTATION OF ADAPTIVE NOISE CANCELLER BASED ON LEAST MEAN SQUARE ALGORITHM
25	V.SRINIVASA RAO, P. VINAY KUMAR, T.ANIL KUMAR & HABBIBULLA KHAN	2013 IEEE 9 <sup>TH</sup> INTERNATIONAL COLLOQUIUM ON SIGNAL PROCESSING AND ITS APPLICATIONS, KAULALUMPUR, MALAYSIA, 8-10 MARCH 2013.	MULTIUSER DETECTION FOR DS-CDMA SYSTEMS OVER NAKAGAMI-M FADING CHANNELS USING PARTICLE SWAM OPTIMIZATION
26	P. VINAY KUMAR, T.ANIL KUMAR & HABBIBULLA KHAN	2013 IEEE 56 <sup>TH</sup> INTERNATIONAL MIDWEST SYMPOSIUM ON CIRCUITS AND SYSTEMS (MWSCAS 2013), COLUMBUS, USA, 4-7 AUG 2013.	OUTAGE PERFORMANCE ANALYSIS OF BASIC RECEIVE DIVERSITY COMBINING SCHEMES IN NAKAGAMI-0.5 FADING CHANNEL
27	V.SRINIVASA RAO, P. VINAY KUMAR, T.ANIL KUMAR & HABBIBULLA KHAN	2013 IEEE INTERNATIONAL CONFERENCE ON SIGNAL AND IMAGE PROCESSING APPLICATIONS (ICSIPA), MELAKA, MALAYSIA, 8- 10 OCTOBER 2013.	PERFORMANCE ANALYSIS OF LINEAR DIVERSITY COMBINING SCHEMES ON NAKAGAMI- 0.5 FADING CHANNELS
28	P.KRISHNA, T ANIL KUMAR & K. KISHAN RAO	4 <sup>TH</sup> INTERNATIONAL CONFERENCE ON PERVASIVE AND EMBEDDED COMPUTING AND COMMUNICATION SYSTEMS (PECCS-2014), LISBON, PORTUGAL, 7-9 JANUARY 2014.	WEIGHTED SUM-RATE MAXIMIZATION FOR MULTI-USER MIMO-OFDM DOWNLINK WITH ZF-DPC METHODS
29	T ANIL KUMAR, M.SREELATHA & K. SPANDANA	INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, COMPUTERS AND INDUSTRIAL ENGINEERING (ICICIE'2014), 15-16 JAN 2014.	NARROWBAND INTERFERENCE SUPPRESSION IN SPEECH SIGNALS USING MULTIRATE FILTER BANKS
30	P.KRISHNA, K.KISHAN RAO & T ANIL KUMAR	INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, COMPUTERS AND INDUSTRIAL ENGINEERING (ICICI-2014), 15-16 JAN 2014.	COMPARISON STUDY OF SCHEDULING STRATEGIES FOR MULTI-USER MIMO OFDM SYSTEMS WITH LIMITED FEEDBACK
31	V.SRINIVASA RAO, T.ANIL KUMAR, HABBIBULLA KHAN, S. UMAMAHESHWAR, T. SANTHOSH KUMAR & K. SPANDANA	INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, COMPUTERS AND INDUSTRIAL ENGINEERING (ICICIE'2014), 15-16 JAN 2014.	PERFORMANCE ANALYSIS OF DS-CDMA SYSTEMS ON NAKAGAMI FADING CHANNELS WITH IMPULSIVE NOISE
32	V.SRINIVASA RAO, T.ANIL KUMAR, S. UMA MAHESWAR, K. SRINIVASA RAO & HABBIBULLA KHAN	2014 FIFTH INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS, MODELLING AND SIMULATION, (ISMS 2014), LANGKAWI, MALAYSIA, 27-29 JANUARY 2014.	ROBUST MULTIUSER DETECTION IN ASYNCHRONOUS DS-CDMA SYSTEMS OVER NAKAGAMI-M FADING CHANNELS
33	V.SRINIVASA RAO, T.ANIL KUMAR, G. YOGESWARA RAO, K. SPANDANA, K. SANDEEP & B. UJWALA	2014 FIFTH INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS, MODELLING AND SIMULATION, (ISMS 2014), LANGKAWI, MALAYSIA, 27-29 JANUARY 2014.	ROBUST FREQUENCY ESTIMATION OF SAMPLED SINUSOIDAL SIGNALS WITH IMPULSIVE NOISE
34	V. RAMA KRISHNA & T ANIL KUMAR	3RD INTERNATIONAL CONFERENCE ON FRONTIERS OF INTELLIGENT COMPUTING: THEORY AND APPLICATIONS (FICTA) 2014,	VLSI IMPLEMENTATION OF MAXIMUM LIKELIHOOD MIMO DETECTION ALGORITHM



		BHUBANESHWAR, INDIA.	
35	V. RAMA KRISHNA & T ANIL KUMAR	2014 INTERNATIONAL CONFERENCE ON DEVELOPMENT AND APPLICATION SYSTEMS (DAS), ROMANIA, 15- 17 MAY 2014.	IMPLEMENTATION AND PERFORMANCE ANALYSIS OF ZERO FORCING MIMO DETECTION ALGORITHM
36	P.KRISHNA, T ANIL KUMAR & K. KISHAN RAO	10TH INTERNATIONAL CONFERENCE ON WIRELESS COMMUNICATIONS, NETWORKING AND MOBILE COMPUTING WICOM-2014, SEPTEMBER 26 <sup>TH</sup> -28 <sup>TH</sup> 2014. BEIJING, CHINA.	THROUGHPUT EVALUATION OF DOWNLINK MULTIUSER-MIMO OFDM-LTE SYSTEM
37	P.KRISHNA, T ANIL KUMAR & K. KISHAN RAO	2014 IEEE ASIA PACIFIC CONFERENCE ON CIRCUITS AND SYSTEMS-APCCAS-2014, NOVEMBER 17 <sup>TH</sup> -19 <sup>TH</sup> 2014, OKINAWA, JAPAN.	PILOT BASED LMMSE CHANNEL ESTIMATION FOR MULTI-USER MIMO-OFDM SYSTEMS WITH POWER DELAY PROFILE
38	P.KRISHNA, T ANIL KUMAR & K. KISHAN RAO	2014 IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND COMPUTING RESEARCH (2014 IEEE ICCIC), COIMBATORE, INDIA	M-QAM BIT ERROR RATE ANALYSIS OF MULTIPATH CHANNELS IN LTE SYSTEM
39	P.KRISHNA, T ANIL KUMAR & K.KISHAN RAO	2015 IEEE 9TH INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS AND CONTROL (ISCO-2015), COIMBATORE.	CARRIER FREQUENCY OFFSET ESTIMATIONS IN OFDM- DOWNLINK LTE SYSTEMS
40	P.KRISHNA, T ANIL KUMAR & K.KISHAN RAO	IEEE 12TH INTERNATIONAL CONFERENCE ON WIRELESS AND OPTICAL COMMUNICATIONS NETWORKS: WOCN-2015, BANGALORE, SEPTEMBER 2015.	MULTIUSER MIMO SYSTEMS: SPECTRAL AND ENERGY EFFICIENCIES, ESTIMATIONS AND CAPACITY LIMITS
41	P.KRISHNA, T ANIL KUMAR & K.KISHAN RAO	IEEE INTERNATIONAL CONFERENCE ON GREEN COMPUTING AND INTERNET OF THINGS (ICGCIOT-2015), GREATER NOIDA, 08-10 OCTOBER 2015	PERFORMANCE EVALUATION OF COOPERATIVE RELAY ASSISTED TRANSMISSION MODELS IN LTE SYSTEM
42	S.UMA MAHESWAR, T.ANIL KUMAR & K.SRINIVASA RAO	IEEE INTERNATIONAL CONFERENCE ON GREEN COMPUTING AND INTERNET OF THINGS (ICGCIOT 2015), GREATER NOIDA, 08-10 OCTOBER 2015	PERFORMANCE EVALUATION OF MULTIUSER MIMO DETECTION TECHNIQUES
43	P.KRISHNA, T ANIL KUMAR & K.KISHAN RAO	IEEE 10TH INTERNATIONAL CONFERENCE ON INFORMATION, COMMUNICATIONS AND SIGNAL PROCESSING (ICICS-2015) SINGAPORE, 2-4 DECEMBER, 2015.	PERFORMANCE OF LONG TERM EVOLUTION DOWNLINK WITH MIMO TECHNIQUES
44	V.SRINIVASA RAO, T ANIL KUMAR & HABIBULLA KHAN	10TH INTERNATIONAL CONFERENCE ON INFORMATION, COMMUNICATIONS AND SIGNAL PROCESSING (ICICS 2015) SINGAPORE, 2-4DECEMBER, 2015.	MULTIUSER DETECTION USING COMPREHENSIVE LEARNING PSO OVER GK FADING CHANNELS IN IMPULSIVE NOISE
45	S.UMA MAHESWAR, T.ANIL KUMAR & K.SRINIVASA RAO	INTERNATIONAL CONFERENCE ON ALLIED ELECTRICAL AND COMMUNICATION SYSTEMS (ICA ECS2016), 8-10 DECEMBER 2016.	STUDY AND IMPROVEMENTS OF CAPACITY BOUNDS AND SPATIAL MULTIPLEXING IN MIMO SYSTEMS WITH HARDWARE IMPAIRMENTS
46	G. LAXMI MANASA, T ANIL KUMAR & P. VINAY KUMAR	2016 INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTING, COMMUNICATIONS AND INFORMATICS (ICACCI), PP. 1309-1313, JAIPUR, 2016.	MULTIUSER DETECTION OVER GENERALIZED-K FADING CHANNELS USING TWO-STAGE INITIALIZED TEACHING LEARNING BASED OPTIMIZATION
47	G.RAJENDER , T.ANIL KUMAR & K.SRINIVASA RAO	2016 INTERNATIONAL CONFERENCE ON COMMUN. AND SIGNAL PROCESSING (ICCSP), MADRAS, 06 - 08 APR 2016	ESTIMATION AND KALMAN BASED PERFORMANCE APPROACH: A REVIEW

48	M.SAMPATH REDDY, T.ANIL KUMAR & K.SRINIVASA RAO	INTERNATIONAL CONFERENCE ON INNOVATIONS IN ENGINEERING AND TECHNOLOGY (ICRIET-2K16), NOVEMBER 5-6,2016,ODISHA,INDIA	A ROBUST STUDY OF SPECTRAL EFFICIENCY FOR SPACE CONSTRAINED MASSIVE MIMO SYSTEMS
49	M.SAMPATH REDDY, T.ANIL KUMAR & K.SRINIVASA RAO	IEEE INTERANTIONAL CONFERENCE ON ENGINEERING AND TECHNOLOGY(ICET-2016) DECEMBER 16-17,COIMBATORE,INDIA	PERFORMANCE BOUNDS FOR SPECTRAL EFFICIENCY OF SPACE CONSTRAINED MASSIVE MIMO SYSTEMS
50	M.SAMPATH REDDY, T.ANIL KUMAR & K.SRINIVASA RAO	2016 IEEE CONFERENCE ON SYSTEMS,PROCESS AND CONTROL(ICSPC 2016), DECEMBER 16-17,2016, MELAKA, MALAYSIA	SPECTRAL EFFICIENCY ANALYSIS OF MASSIVE MIMO SYSTEMS
51	M.SAMPATH REDDY, T.ANIL KUMAR & K.SRINIVASA RAO	INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND APPLICATIONS(ICICA 2016) 20-22 DECEMBER 2016, PUNE, INDIA	PERFORMANCE ANALYSIS OF MAXIMAL SPECTRAL EFFICIENCY FOR MULTICELL MASSIVE MIMO SYSTEMS
52	S. UMA MAHESWAR, T ANIL KUMAR & K. SRINIVASA RAO	PROCEEDINGS OF THE IEEE JOINT GLOBAL CONFERENCE ON DEMOCRATIZING COMMUNICATIONS (WPMC2015, GWS-2015), DECEMBER 13-16, 2015, HYDERABAD, INDIA	PERFORMANCE OF MIMO DETECTION TECHNIQUES WITH SPATIAL MULTIPLEXING
53	S.UMA MAHESWAR T ANIL KUMAR, K.SRINIVASA RAO, P. KRISHNA, G. YOGESWARA RAO & K. KISHAN RAO	IEEE INTERNATIONAL COFERENCE ON SYSTEMS DESIGN AND APPLICATIONS (ISDA2014), 27-29TH NOVEMBER 2014, OKINAWA,JAPAN	ADAPTIVE CHANNEL ESTIMATION TECHNIQUES FOR SCFDMA SYSTEMS
54	P.KRISHNA, T ANIL KUMAR & K.KISHAN RAO	PROCEEDINGS OF NATIONAL CONFERENCE ON RECENT ADVANCES IN COMMUNICATIONS AND ELECTRONICS ENGINEERING (RACEE-2016) OCT 21-22, 2016, NIT-WARANGAL, INDIA	ACHIEVABLE SUM SPECTRAL EFFICIENCY ANALYSIS OF MASSIVE MIMO WITH MMSE-SIC RECEIVERS
55	P.KRISHNA, T ANIL KUMAR, K.KISHAN RAO, K. SATISH & N.M. PRASANNA	2016 THIRTEENTH INTERNATIONAL CONFERENCE ON WIRELESS AND OPTICAL COMMUNICATIONS NETWORKS (WOCN),21-23,JULY,2016 GITAMS, HYDERABAD	PERFORMANCE ANALYSIS OF DUAL HOP RELAYING OVER RAYLEIGH FADING CHANNELS
56	V. SRINIVASA RAO, P. VINAY KUMAR, HABIBULLAH KHAN & T. ANIL KUMAR	19 <sup>TH</sup> INTERNATIONAL CONFERENCE ON DIGITAL SIGNAL PROCESSING, 20-23 AUG 2014	MULTIUSER DETECTION FOR MIMO DS-CDMA SYSTEM IN IMPULSIVE NOISE OVER NAKAGAMI-m FADING CHANNELS
57	G. RAJENDER, T. ANIL KUMAR & K. SRINIVASA RAO	IEEE INTERNATIONAL CONFERENCE ON GLOBALTRENDS IN SIGNAL PROCESSING, INFORMATION, COMPUTING AND COMMUNICATION (ICSPICC-2016), 22-24 DEC 2016, JALGAON, INDIA.	RECURSIVE STATE OPTIMIZATION USING Min-Max APPROACH FOR CHANNEL ESTIMATION IN MIMO SYSTEM
58	S. UMA MAHESWAR, T. ANIL KUMAR & K. SRINIVASAA RAO	INTERNATIONAL CONFERENCE ON INVENTIVE COMMUNICATION AND COMPUTATIONAL TECHNOLOGIES (ICICCT 2017), PP. 490 – 495, 2017.	IMPROVED PERFORMANCE OF LOW COMPLEXITY K-BEST SPHERE DECODER ALGORITHM

### ONGOING RESEARCH PROJECTS:

S.No.	Title of The Project	Funding Agency	Amount	Duration From___ To__
1.	STUDY AND IMPLEMENTATION OF CHANNEL ESTIMATION TECHNIQUES FOR 5G WIRELESS COMMUNICATION SYSTEMS	SERB, India	Rs. 18,30,000/-	3 years 09/11/2018 to 08/11/2021
2.	PRERANA	AICTE, India	Rs. 5,87,500/-	2 years 12.03.2020 to 11.03.2022
3.	SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS, MEDICINE (STEMM) – INDIA INITIATIVE	NCSTC, India	Rs. 18,05,100/-	1 year 18.11.2021 to 31.12.2021

### GRANTS:

- UGC TRAVEL GRANT (50%) IN 2005 TO PRESENT TECHNICAL PAPER AT SIENA, ITALY.
- AICTE TRAVEL GRANT (100%) IN 2007 TO PRESENT PAPER AT NEW ORLEANS, USA.
- IEEE TRAVEL GRANT IN 2007 TO PRESENT PAPER AT ISCAS'2007, USA.
- UGC TRAVEL GRANT (100%) IN 2013 TO PRESENT TECHNICAL PAPER AT MELAKA, MALAYSIA.
- DST SEMINAR GRANTS TO ORGANIZE INTERNATIONAL CONFERENCE IN DEC' 2014 AT SR ENGINEERING COLLEGE, WARANGAL.
- GRANT FOR ORGANIZING CONFERENCE BY AICTE IN 2021-22 AT CMR INSTITUTE OF TECHNOLOGY, HYDERABAD.
- "SCHEME FOR PROMOTING INTERESTS, CREATIVITY AND ETHICS AMONG STUDENTS (SPICES)", BY AICTE IN 2021-22 AT CMR INSTITUTE OF TECHNOLOGY, HYDERABAD.

### RESEARCH GUIDANCE:

PhD Guided/ Submitted	06 (Awarded) 06 (Guiding)
MTECH Projects Guided	13 (Awarded) 01 (Guiding)
BTECH projects Guided	32 (Awarded)

**TEXT OR REFERENCE BOOKS PUBLISHED BY INTERNATIONAL PUBLISHERS WITH PEER REVIEWED SYSTEM**

S. NO.	TITLE OF TEXT BOOK	INTERNATIONAL/ NATIONAL/ STATE/ LOCAL	TEXT BOOK/ REFERENCE
1	ADVANCES IN ELECTRICAL ENGINEERING AND ELECTRICAL MACHINES	INTERNATIONAL	CHAPTER CONTRIBUTED IN EDITEDTEXT BOOK
2	ADVANCES IN ELECTRICAL ENGINEERING AND ELECTRICAL MACHINES	INTERNATIONAL	CHAPTER CONTRIBUTED IN EDITEDTEXT BOOK
3	NETWORKS AND TRANSMISSION LINES	INTERNATIONAL	TEXT BOOK
4	LECTURE NOTES IN ELECTRICAL ENGINEERING (ISSN: 1876-1100) (BOOK SERIES OF SPRINGER PUBLICATION)	INTERNATIONAL	BOOK CHAPTER-51
5	LECTURE NOTES IN ELECTRICAL ENGINEERING (ISSN: 1876-1100) (BOOK SERIES OF SPRINGER PUBLICATION)	INTERNATIONAL	BOOK CHAPTER-52
6	SPECTRAL EFFICIENCY ANALYSIS OF MULTIUSER MIMO-OFDM LTE SYSTEMS	INTERNATIONAL	TEXT BOOK

**TRAINING COURSES AND CONFERENCE/ SEMINARS, ORGANIZING REFRESHER COURSES, WORKSHOPS, FACULTY DEVELOPMENT PROGRAMS, ETC.**

S.No.	Title of the Refresher Course/ Program	Refresher Course/	Program attended	Place	During	Durati on
1	INDUCTION TRAINING PROGRAMME	INDUCTION TRAINING PROGRAMME	TRAINING	REC, KURUKSHET HRA	22 <sup>ND</sup> MAY – 09 <sup>TH</sup> JUNE 2000	3 W
2	ADVANCES IN ELECTRONIC COMMUNICATION SYSTEMS	ADVANCES IN ELECTRONIC COMMUNICATION SYSTEMS	FACULTY DEVELOPMENT PROGRAM	THANGAL KUNJU MUSALIAR COLLEGE OF ENGINEERING, KOLLAM	15 <sup>TH</sup> – 27 <sup>TH</sup> MARCH 2004	2 W
3	SHORT TERM	SHORT TERM	FACULTY	SREC,	10 <sup>TH</sup> – 14 <sup>TH</sup> MAY	1 W

	SUMMER COURSE ON VLSI DESIGN	SUMMER COURSE ON VLSI DESIGN	DEVELOPMENT PROGRAM	WARANGAL	2009	
4	SHORT TERM SUMMER COURSE ON VLSI & EMBEDDED SYSTEM DESIGN	SHORT TERM SUMMER COURSE ON VLSI & EMBEDDED SYSTEM DESIGN	FACULTY DEVELOPMENT PROGRAM	SREC, WARANGAL	14 <sup>TH</sup> – 18 <sup>TH</sup> MAY 2009	1 W
5	SHORT TERM SUMMER COURSE ON VLSI DESIGN	SHORT TERM SUMMER COURSE ON VLSI DESIGN	FACULTY DEVELOPMENT PROGRAM	SREC, WARANGAL	10 <sup>TH</sup> – 15 <sup>TH</sup> MAY 2010	1 W
6	RECENT TRENDS IN EMBEDDED SYSTEMS & SIGNAL PROCESSING	RECENT TRENDS IN EMBEDDED SYSTEMS & SIGNAL PROCESSING	FACULTY DEVELOPMENT PROGRAM	SVSIT, WARANGAL	04 <sup>TH</sup> – 14 <sup>TH</sup> SEPT 2013	2 W
7	SIGNAL PROCESSING TECHNIQUES	SIGNAL PROCESSING TECHNIQUES	FACULTY DEVELOPMENT PROGRAM	MVSREC, NADERGUL	15 <sup>TH</sup> -19 <sup>TH</sup> NOVEMBER 2016	1W
8	NETWORK SECURITY	NETWORK SECURITY	FACULTY DEVELOPMENT PROGRAM	MVSREC, NADERGUL	19 <sup>TH</sup> -24 <sup>TH</sup> DECEMBER 2016	1W

**INVITED LECTURES/ PRESENTATIONS FOR CONFERENCES/ SYMPOSIA/ WORKSHOPS ETC**

S.No.	Type of Lecture	Lecture level	Name of Participation	Place	Start Date	End Date
1	SESSION CHAIR	INTERNATIONAL	INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY FOR REAL WORLD PROBLEMS	VAAGDEVI ENGINEERING COLLEGE, BOLLIKUNTA	02/16/2008	02/17/2008
2	SESSION CHAIR	NATIONAL	SPIHINX 2008	RAMAPPA ENGINEERING	10/17/2008	10/18/2008

				COLLEGE, WARANGAL		
3	INVITED TALK	NATIONAL	TRAINING PROGRAMME ON MATLAB, GRAPHICS AND LATEX	KAKATIYA UNIVERSIT Y, WARANGAL	03/21/2 009	03/22/20 09
4	INVITED LECTURE	NATIONAL	SIGNALS & SYSTEMS	TRR COLLEGE OF ENGINEERI NG & TECHNOLO GY, INOLE	07/19/2 010	07/19/20 10
5	INVITED LECTURE	NATIONAL	SIGNALS & SYSTEMS	TRR COLLEGE OF ENGINEERI NG, INOLE	07/26/2 010	07/26/20 10
6	ADVISORY COMMITTEE MEMBER	NATIONAL	TRR ACADEMIC STAFF TRAINING CENTRE	TRR COLLEGE OF ENGINEERI NG, INOLE	08/25/2010 ONWARDS	
7	INVITED LECTURE	NATIONAL	COMMUNICATIO N SYSTEMS	TRR COLLEGE OF ENGINEERI NG, INOLE	08/26/2 010	08/26/20 10
8	INVITED LECTURE	NATIONAL	COMMUNICATIO N SYSTEMS	TRR COLLEGE OF ENGINEERI NG & TECHNOLO GY, INOLE	12/01/2 010	12/01/20 10
9	INVITED LECTURE	NATIONAL	COMMUNICATIO N SYSTEMS	TRR COLLEGE OF ENGINEERI NG, INOLE	12/13/2 010	12/13/20 10
10	INVITED LECTURE	NATIONAL	SIGNALS & SYSTEMS	TRR COLLEGE OF ENGINEERI NG &	12/27/2 010	12/27/20 10

				TECHNOLOGY, INOLE		
11	INVITED LECTURE	NATIONAL	CURRENT TRENDS IN COMMUNICATION SYSTEMS	SREE CHAITANYA INSTITUTE OF TECHNOLOGICAL SCIENCES, KARIMNAGAR	12/29/2010	12/29/2010
12	INVITED LECTURE	NATIONAL	SIGNALS & SYSTEMS	TRR COLLEGE OF ENGINEERING & TECHNOLOGY, INOLE	06/27/2011	06/27/2011
13	INVITED LECTURE	NATIONAL	SIGNALS & SYSTEMS	TRR COLLEGE OF ENGINEERING, INOLE	07/05/2011	07/05/2011
14	INVITED LECTURE	NATIONAL	SIGNALS & SYSTEMS	TRR COLLEGE OF ENGINEERING, INOLE	07/18/2011	07/18/2011
15	INVITED LECTURE	NATIONAL	COMMUNICATION SYSTEMS	TRR COLLEGE OF ENGINEERING & TECHNOLOGY, INOLE	12/01/2011	12/01/2011
16	INVITED LECTURE	NATIONAL	COMMUNICATION SYSTEMS	TRR COLLEGE OF ENGINEERING & TECHNOLOGY, INOLE	12/12/2011	12/12/2011
17	INVITED LECTURE	NATIONAL	SIGNALS & SYSTEMS	TRR COLLEGE OF	12/26/2011	12/26/2011

				ENGINEERING, INOLE		
18	INVITED LECTURE	NATIONAL	ADVANCES IN ANALOG AND DIGITAL COMMUNICATIONS	SREE CHAITANYA COLLEGE OF ENGINEERING, KARIMNAGAR	10/11/2012	10/11/2012
19	INVITED LECTURE	NATIONAL	SIGNAL PROCESSING FOR ADVANCED COMMUNICATION SYSTEMS & ADVANCED WIRELESS COMMUNICATION SYSTEMS	INDIAN SOCIETY OF ELECTRONICS & COMMUNICATION ENGINEERS, NEW DELHI AND VAAGESWARI ENGINEERING COLLEGE, KARIMNAGAR	03/20/2012	03/20/2012
20	INVITED LECTURE	NATIONAL	EMERGING TRENDS IN TELECOMMUNICATIONS	IETE, NEW DELHI & SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN, WARANGAL	03/27/2012	03/27/2013
21	TUTORIAL	NATIONAL	TUTORIAL ON SIGNALS & SYSTEMS	SREE CHAITANYA COLLEGE OF ENGINEERING, KARIMNAGAR	03/29/2012	03/29/2012
22	INVITED LECTURE	NATIONAL	RECENT ADVANCES IN	SREE CHAITANYA	03/30/2012	03/30/2012



			DIGITAL SIGNAL PROCESSING	A INSTITUTE OF TECHNOLOGICAL SCIENCES, KARIMNAGAR		
23	KEYNOTE ADDRESS	NATIONAL	EMERGING TRENDS IN TELECOMMUNICATIONS	SUMATHIREDDY INSTITUTE OF TECHNOLOGY FOR WOMEN, WARANGAL	04/04/2012	04/04/2012
24	INVITED LECTURE	NATIONAL	RECENT TRENDS IN COMMUNICATION ENGINEERING	DEIT, NEW DELHI AND SR ENGINEERING COLLEGE, WARANGAL	07/17/2012	07/17/2012
25	KEYNOTE ADDRESS	NATIONAL	ENGINEERS DAY	BALAJI INSTITUTE OF SCIENCE & TECHNOLOGY, NARSAMPET	09/15/2012	09/15/2012
26	INVITED LECTURE	NATIONAL	RESEARCH AREAS IN COMMUNICATIONS	IETE, NEW DELHI & SRIDEVI WOMEN'S ENGINEERING COLLEGE, HYDERABAD	09/26/2012	09/26/2012
27	INVITED LECTURE	NATIONAL	RECENT TRENDS IN MOBILE COMMUNICATIONS	VAAGESWARI COLLEGE OF ENGINEERING, KARIMNAGAR	10/05/2012	10/05/2012

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28	INVITED LECTURE	NATIONAL	RECENT TRENDS IN SIGNALS & SYSTEMS	SREE CHAITANYA INSTITUTE OF TECHNOLOGICAL SCIENCES, KARIMNAGAR	10/12/2012	10/12/2012
29	INVITED LECTURE	NATIONAL	STUDY OF SIGNALS, ANALOG & DIGITAL COMMUNICATION SYSTEMS USING MATLAB	ANURAG ENGINEERING COLLEGE, KODAD	03/02/2013	03/02/2013
30	INVITED LECTURE	NATIONAL	SIGNAL PROCESSING FOR COMMUNICATIONS	VAAGESWARI COLLEGE OF ENGINEERING, KARIMNAGAR	03/04/2012	03/04/2012
31	INVITED LECTURE	NATIONAL	ADVANCES IN SIGNAL PROCESSING, VLSI & DIGITAL COMMUNICATION SYSTEMS	ANURAG ENGINEERING COLLEGE, KODAD	03/18/2013	03/19/2013
32	INVITED LECTURE	NATIONAL	PROGRAMMING WITH MATLAB	MLR INSTITUTE OF TECHNOLOGY, HYDERABAD	07/31/2013	08/01/2013
33	INVITED LECTURE	NATIONAL	WORKSHOP ON MATLAB	VAAGESWARI COLLEGE OF ENGINEERING, KARIMNAGAR	10/08/2013	10/09/2013
34	REVIEWER	INTERNATIO	2013 IEEE	MELAKA,	10/08/2	10/10/20

		NAL	INTERNATIONAL CONFERENCE ON SIGNAL & IMAGE PROCESSING APPLICATIONS (ICSIPA 2013)	MALAYSIA	013	13
35	INVITED LECTURE	NATIONAL	MATLAB TRAINING PROGRAM	SVSGOI, WARANGAL	08/12/2013	08/13/2013
36	INVITED LECTURE	NATIONAL	MATLAB FOR SIGNALS, SYSTEMS, COMMUNICATIONS & IMAGE PROCESSING	CMRCET, HYDERABAD	08/14/2013	08/14/2013
37	INVITED LECTURE	NATIONAL	MATLAB FOR SIGNALS, SYSTEMS, COMMUNICATIONS & IMAGE PROCESSING	CMR TECHNICAL CAMPUS	08/14/2013	08/14/2013
38	INVITED LECTURE	NATIONAL	FACULTY DEVELOPMENT PROGRAM ON "RECENT TRENDS IN EMBEDDED SYSTEMS & SIGNAL PROCESSING"	SVSGOI, WARANGAL	09/14/2013	09/27/2013
39	REVIEWER	INTERNATIONAL	THE 3 <sup>RD</sup> INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS, COMMUNICATIONS AND NETWORKS (CECNET 2013)	CHINA	11/20/2013	11/22/2013
40	REVIEWER	INTERNATIONAL	7 <sup>TH</sup> INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING AND	GOLDCOAST, AUSTRALIA	12/16/2013	12/18/2013

			COMMUNICATION SYSTEMS (ICSPCS 2013)			
41	SESSION CHAIR	NATIONAL	42 <sup>ND</sup> ISTE ANNUAL CONVENTION	ANURAG GROUP OF INSTITUTIONS, VENKATAPUR	12/20/2013	12/22/2013
42	SESSION CHAIR	NATIONAL	CARCAN-2012(NATIONAL SYMPOSIUM ON CURRENT TRENDS IN ATMOSPHERIC RESEARCH INCLUDING COMMUNICATIONS AND NAVIGATION ASPECTS)	VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY, AUSHAPUR	12/21/2013	12/22/2013
43	REVIEWER	INTERNATIONAL	10 <sup>TH</sup> IEEE COLLOQUIUM ON SIGNAL PROCESSING & ITS APPLICATIONS (CSPA 2014)	KUALUMPUR, MALAYSIA	03/07/2014	03/09/2014
44	REVIEWER	INTERNATIONAL	IEEE REGION TEN TECHNICAL SYMPOSIUM 2014 (TENSYP 2014)	KUALUMPUR, MALAYSIA	04/14/2014	04/16/2014
45	INTERNATIONAL SCIENTIFIC MEMBER	INTERNATIONAL	2014 INTERNATIONAL CONFERENCE ON COMMUNICATION TECHNOLOGY AND APPLICATIONS (CTA2014)	BEIJING, CHINA	08/18/2014	08/19/2014
46	GENERAL CHAIR	INTERNATIONAL	1ST INTERNATIONAL CONFERENCE ON "EMERGING TRENDS IN	WARANGAL	09/29/2014	09/30/2014

			ENGINEERING & TECHNOLOGY" (ICETET2014)			
47	GENERAL CHAIR	INTERNATIONAL	2 <sup>ND</sup> INTERNATIONAL CONFERENCE ON "EMERGING TRENDS IN ELECTRONICS & TELECOMMUNICATIONS" (ICETET2014)	KARIMNAGAR	12/13/2014	12/14/2014
48	GENERAL CHAIR	INTERNATIONAL	INTERNATIONAL CONFERENCE ON " RECENT ADVANCES IN COMMUNICATION, VLSI & EMBEDDED SYSTEMS "(ICRACVES'14)	WARANGAL	12/19/2014	12/20/2014
49	GENERAL CHAIR	INTERNATIONAL	3 <sup>RD</sup> INTERNATIONAL CONFERENCE ON "EMERGING TRENDS IN ELECTRONICS & TELECOMMUNICATIONS" (ICETET2015)	KUALUMPUR, MALAYSIA	05/29/2015	05/31/2015
50	TPC MEMBER	INTERNATIONAL	2016 IEEE 83RD VEHICULAR TECHNOLOGY CONFERENCE	NANJING, CHINA	05/15/2016	05/18/2016
51	REVIEWER	INTERNATIONAL	2016 8TH IEEE INTERNATIONAL CONFERENCE ON COMMUNICATION SOFTWARE AND NETWORKS (ICCSN 2016)	BEIJING, CHINA	06/04/2016	06/06/2016
52	SESSION CHAIR	NATIONAL	NATIONAL CONFERENCE	CMRTC, INDIA	17/12/2016	18/12/2016

			ON COMPUTER SECURITY, IMAGE PROCESSING, GRAPHICS, MOBILITY & ANALYTICS			
53	TPC MEMBER	INTERNATIONAL	2017 IEEE 85TH VEHICULAR TECHNOLOGY CONFERENCE	SYDNEY, AUSTRALIA	04/06/2017	07/06/2017