



**Dr Mrs Upena Devang Dalal**  
 Associate Professor and Ex-Head,  
 Electronics Engineering Department,  
 Sardar Vallabhbhai National Institute of Technology,  
 Surat

Date of Birth: 28<sup>th</sup> October, 1969

**Professional Details from present to former  
 (Details of positions held and organizations served):**

Organization	Period		Designation
	From	To	
SVNIT, Surat	1/1/2007	Cont'd till the date	Associate Professor (due for Professor)
*Government Engineering College, Surat	Dec. 2010	May 2011	Visiting Faculty for PG classes only on hourly basis on Saturdays
SVNIT, Surat	27/10/2005	31/12/2006	Lecturer(Selection Grade)
SVRCET to SVNIT conversion in 2002	26/5/1999	26/10/2005	Lecturer (Senior Scale)
*APTECH computers, Surat	1998	1999	1 year as visiting teacher in special course on Communication Engineering (with hourly basis honorarium)
SVRCET, Surat	23/2/1993 (Permanent Position)	25/5/1999	Lecturer
SVRCET, Surat	16/9/1991	22/2/1993	Lecturer (Adhoc)

\*Along with job in SVRCET/SVNIT

Teaching experience in higher education of 26+ years and research experience of 10+ years

## Educational Details

Sr No.	Examination Passed	Name of the Board/University	Year of Passing	Class/Percentage/CGPA
1.	S.S.C.	Gujarat Board	1985	89.5% (Dist) 7 <sup>th</sup> rank in Gujarat board, 3 <sup>rd</sup> rank in Surat center
2.	H.S.C.	Gujarat Board	1987	76.25% (overall) (Dist) 86% (PCM subjects-merit)
3.	B.E.(Electronics)	SVREC affiliated to S G University (Now VNSGU)/	1991	Sem 1,2-- 68.5% (Dist) Sem 3,4 –63.25% (First Class) Sem 5,6--67.03% (Dist) Sem 7,8—74.44%(Dist)
4.	M.E.(Electronics and Comm. Systems)	DD (Deemed) University, Nadiad	2005	76.48% (Dist) with Laxminarayan Kalla Gold Medal being the topper
5.	Ph.D. (Domain : Wireless Communication)	SVNIT, Surat	Nov. 2009	CGPA 9.0 in the course work with 12 credits
6.	Upantya Visharad in vocal music (Diploma equivalent)	Brihad Gujarat Sangeet Samiti, Ahmedabad	1990	First class

B.E. Project: IC Based Color Television Receiver Sections for Laboratory Purpose... (Guide : Prof A H Lalluwadia, Associate Professor, EC Deptt, SVNIT)

B.E. Seminar: Electronic Tracking Systems for Space Communications...(Guide: Dr P H Tandel, the then Assistant Professor, EC Deptt, SVRCET, Surat)

M. E. Dissertation: Study and Simulation of OFDM Multicarrier Modulator-Demodulator with BER Performance (A Comparative Approach with Conventional Systems and CDMA) (Supervisor-Dr A S Ranade (The then Professor and Head of Electronics Department, DDIT, Nadiad).....

Ph. D. done under the guidance of 1. Dr Y P Kosta (Professor, EC Deptt, Director, Marwadi Education Foundation, Rajkot, Formerly Principal, CHARUSAT), 2. Dr K. S. Dasgupta (the then Director, ISRO, Ahmedabad) and 3. Late Dr H K Patel (the then Professor, Electrical Engineering Department, SVNIT, Surat)

*Title of the Ph. D. thesis: Design and Analysis of New Selectively Imposed Pilot and Doppler Channel Estimation Technique with Outage Analysis for OFDM System over Time Varying Channel for Frame based Access in Mobility*

Proud of being the first lady in Gujarat state who obtained Ph. D. in the field of EC and Wireless Communication

Apart from that, special achievements during education phases

- In S.S.C. examination of Gujarat board, 7<sup>th</sup> rank in Gujarat Board, out of approx. 2 lac students and 3<sup>rd</sup> in Surat Center. Second topper in Gujarat board in Gujarati subject
- In H.S.C. examination of Gujarat board, merit rank within first 100 students of the board, 5<sup>th</sup> rank in Surat Center.

- Qualified Elementary and Intermediate examinations of Drawing, Examinations for Hindi (Vardha) upto Third level, Examinations for English language-Three levels (By Bhartiya Vidya Mandal), and most of them are passed with first class or distinction.
- President in the student council during standard 9, Lady Representative and additional cultural secretary during B. E. III year.

#### **Nature of activities now (Details are appended)**

- Professional activities–
  - Teaching in higher Education
  - Professional Networking
  - Research and publications
  - Institutional and Departmental academic work
- Nonprofessional activities--
  - Social and cultural activities in association with different organization

#### **Address for Correspondence:**

Electronics Engg. Deptt.  
Sardar Vallabhbhai National Institute of  
Technology, Ichchanath, Near Piplod,  
Dumas Road (Gaurav path), Surat-  
395007

#### **Contact Details**

Telephone: 0261-2201551(o), 0261-2786577(R)

Mobile: +919898057727

Email id: [udd@eced.svnit.ac.in](mailto:udd@eced.svnit.ac.in)  
[upena.dalal@gmail.com](mailto:upena.dalal@gmail.com)

Important web links to meet me: [www.svnit.ac.in](http://www.svnit.ac.in), [www.oup.co.in](http://www.oup.co.in),  
[www.linkedin.com](http://www.linkedin.com)

## Information about the Professional activities over the years

### **The subjects taught till now:**

Basic Electronics (UG)  
Solid state Devices (UG)  
Digital Circuits (UG)  
Pulse and Switching Circuits (UG)  
Pulse and Waveforms (UG)  
Electronic Instrumentation and Control (UG)  
Electronic System Design (UG)  
Communication Engineering (UG)  
Communication Systems (UG)  
Microprocessors (UG)

Analog and Digital Communication (UG)  
Computer Communication and Networking (UG)  
Telematics/ Digital Switching Circuits (UG-Elective)  
ISDN and ATM (UG-Elective)  
Modern Communication Systems-Fiber Optic Communication and  
Satellite Communication (UG)

Digital Communication(UG)  
Mobile Communication/ Cellular Technology (UG)  
Wireless Communication (UG-Elective)  
Mobile Networks (PG)  
Fiber Optic Networks (PG)  
Digital Image Processing (PG)  
Adhoc Networks (PG)  
MIMO technology (PG)  
Mobile Computing (UG-Elective)

## Industrial Visits and Collaborations with

### 1. ISRO, Ahmedabad



ISRO visit on 29<sup>th</sup> September 2014-meeting with Dr Kirankumar, Director, SAC.

MoU with ISRO for IRNSS Navigation Receiver Field Trial and Data Collection--project of ISRO on IRNSS Navigation system development and testing.

Department received two IRNSS receivers under this MOU and sends the received data to ISRO on weekly basis. Attended two User meets at Ahmedabad and Bandlore.

### 2. INS Valsura, Jamnagar



MoU with Indian Navy in 2015 for five years in terms of Projects and PG/Ph D programs.

Guided dissertation to a sponsored naval Leftt. Commanding officer who is pursuing M. Tech from SVNIT(2017).

Visit of Commanding Officers, Indian Navy from INS Valsura 17<sup>th</sup> October, 2014, to discuss the various issues to be taken up.

A photo with Naval Officers whom I trained by delivering lectures on Applications of Digital Signal Processing



### 3. Automation Systems, Ahmedabad—trainings, lab development and funding support I received for various events. Working on MOU for ASEPL supported Advance research Lab.

4. Lexus Soft Mac (Diamond Industry), Surat



5. Sciencetech, Indore and Royal Electronics, Vadodara



Visit to Sciencetech Indore by me during 24-25 September, 2014.

Sciencetech Indore supported visit for third year B.Tech. students during my tenure as Head, ECED Lab development and funding support for various events.

6. HAL and Indian Airforce, Nashik



Visit with the student of B. Tech IV in 2017

7. Keysight Technologies (Formerly Agilent Technologies)—Donated Systemview and VSA Software (perpetual license) through me for the Advance Communication/research lab, ECED. Working on MOU for Keysight supported Advance research Lab. Earlier Joint proposal sent to DEITY for CoE for 5G technologies.

8. E-infochip, Ahmedabad---Guided two M.Tech(R) of their two employees

## 9. Innovians Technologies



Workshop on IOT by Innovians Technologies (TEQIP sponsored)-31<sup>st</sup> March-1<sup>st</sup> April 2016. Another workshop (Sponsored by Swapn-Preeti-Bhadresh Foundation and SVNIT Alumni Association-Surat Chapter) is organized on 31<sup>st</sup> August, 2017 as a part of conference ICFITT 2017. Conducted by Mr Prateek Gupta, Director, Innovians Technologies.

10. Indian Railways-As a consultancy work training program cum workshop organized for the Railway supervisors and Technicians funded by Indian railways-corresponding with Mr Pradeep Gupta, Principal, Zonal Electric Training Center, Western Railways, Nava yard, vadodara



## Foreign collaborations with

1. Dr Sajal Das, Daniel St. Clair Endowed Chair Professor at the Computer Science department at Missouri University of Science and Technology (S&T), visited ECED to deliver a lecture during ET2ECN2012
2. Dr Silvia Giordano Head of Networking Lab, Member of ISIN Direction, University of Applied Science – SUPSI, Galleria 2 – via Cantonale, 6928 Manno, Switzerland, visited ECED to deliver a lecture during ET2ECN2012 also, technical correspondence
3. Dr Imrich Clamtac, Full Professor of Telecommunications at the University of Trento and President EAI, organized EAI conference jointly
4. Dr Ahcene Bouncear, Associate Professor, University of Brest, visited ECED as keynote speaker during ICFITT 2017, further technical correspondence.
5. Mr Miroslav Skoric, Expert in Amateur radio, University of Novi Sad, Novi Sad, Serbia & Montenegro, He donated many IEEE journals for department library. He visited ECED for a two days workshop on amateur radio on my request.

IBNM

Institut Brestois du Numérique et des  
Mathématiques

20, avenue Victor Le Gorgeu  
29238, Brest Cedex 3  
Téléphone : 02 98 01 71 67  
Fax : 02 98 01 80 11  
Email: Laurent.Nana @univ-brest.fr

Brest, December 18<sup>th</sup>, 2017

To: Professor Upena Dalal  
SVNIT, Surat, India

**Subject: Invitation as an expert  
speaker in the seminar of the IBNM**

## INVITATION

Respectable Madam,

I hope that this letter finds you in pink of health.

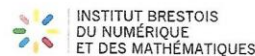
It is a matter of immense contentment to let you know that the Brest Institute of Digital and Mathematics (IBNM: Institut Brestois du Numérique et des Mathématiques), is going to organize a seminar on new technologies in March 2<sup>nd</sup>, 2018.

We invite you as an expert speaker and you may use this letter for your visa purpose. The fees related to your trip and your stay in Brest will be supported by the Brest Institute of Digital and Mathematics.

Best regards,



Laurent NANA  
Professor – Computer Science  
Director of the IBNM institute



### Various Portfolios

1. Institute purchase Committee member (2011 onwards)
2. Head of EC Department (June 2014 to June 2016)
3. Associate Dean FW (June 2016 to June 2018)
4. Chairperson ICC (June 2014 to June 2016)
5. Hon secretary IETE Surat Subcenter (2011 to 2013)
6. Chairperson IETE Surat Subcenter (August 2013 to July 2016)
7. Chairperson Women cell, SVNIT (Feb 2017 onwards)
8. Member of DAAC
9. Member of IAAC (June 2014 to June 2018)
10. Member of Senate (June 2014 to June 2018)





**Inauguration of New Building during my tenure of Headship**



**Curriculum development workshop, 9-10 January 2015 during the tenure of my headship in ECED**

**Nodal officer Ek Bharat Shreshtha Bharat (EBSB) program of MHRD from 15<sup>th</sup> October 2017 onwards**



**1<sup>st</sup> November, 2017 Chhattisgarh day celebrations**

**IETE activities being Hon Secretary and then Chair-Person of IETE Surat subcenter Jan 2011- June 2016**



Blood donation camp in IETE, Seminar on fundamentals of Maxwell's equation, By Dr Y P Kosta



E- Governance by SMC, Seminar



Expert Talk on Holistic Health for youth by Dr Raj Shetty

**PREVENTION OF  
SEXUAL HARASSMENT  
IN THE PREMISES**

**WHAT CONSTITUTES SEXUAL HARASSMENT?**

<b>OFFERING BENEFITS</b> for a sexual favour	<b>UN-WANTED</b> sexual advancements	<b>THREATS</b> or retaliation to "no"	<b>VISUAL CONDUCT</b> suggestive gestures	<b>VERBAL CONDUCT</b> derogatory comments	<b>PHYSICAL CONDUCT</b> body position or touching
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**RAISE VOICE AGAINST IT**

**SAFE ENVIRONMENT IS EVERYONE'S RIGHT**

**The Act**  
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 and Vishaka Guideline, 1997.

**SEXUAL HARASSMENT COMPLAINT FORM**

ALL INFORMATION WILL BE KEPT CONFIDENTIAL



**IDENTIFY AND STOP  
SEXUAL ABUSE**

**Don't Hesitate** to complain to: **Women Cell**  
Room No. 202, New CRC, SVNIT, Surat  
Contact: [www.svnit.ac.in/womencell](http://www.svnit.ac.in/womencell)  
Email for Complain : [womencell@svnit.ac.in](mailto:womencell@svnit.ac.in)

SVNIT believes in gender equality.



**VISION OF WOMEN CELL**  
Promoting Safety and Gender Equality in SVNIT.

**MISSION OF WOMEN CELL**  
Creating awareness among the Stake Holders of SVNIT about gender discrimination & sexual harassment by organizing workshops/seminars/counselling activities.

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**As a Chair Person of Women Cell from 2016 onwards, Women's Day Celebration (8th March 2017) Poster Design, Memento design, Banner design done.**

### Membership of Technical Societies

Sr. No.	Name of Association/Society/professional bodies	Category	Membership No.
1	ISTE	Life Member	LM 27426
2	IETE	Life Member	M 176031
3	IE	Life Member	IE133419-5
4	IEEE	Member	80738204
5	Society of Women in Engineering, WIE of IEEE	Member	80738204
6	IJERIA	Life member	LM2114

## Awards and Honors

<b>Name of awards / prizes</b>	<b>Year</b>	<b>Awards / prizes received from</b>
Laxminarayan Kalla Award	May 2005	DD University, Nadiad for standing first in M.E. (gold-medal)
5 <sup>th</sup> IETE N V Gadadhar Award	Sept 2006	IETE-for outstanding contribution in Radio and mobile comm. (gold-medal, citation and cash)
Rashtriya Gaurav Award	April 2010	India International Friendship Society
International Gold Star Award	May 2010	India International Friendship Society
Bhaskar Woman of the year 2010	July 2010	Divya Bhaskar News paper Group

## Short Term Technical Training Programs/SDP/conferences organized

Sr. No.	Institute/ Organization	Title	Duration
1	ECED-SVRCET AICTE sponsored	National level short term course on “Advance Communication Systems” <b>(co-coordinator)</b>	25 <sup>th</sup> Dec to 29 <sup>th</sup> Dec.2001 (1 week )
2	ECED-SVNIT AICTE sponsored	National level short term training program on “Wideband Wireless digital communication” <b>(co-coordinator)</b>	13 <sup>th</sup> to 18 <sup>th</sup> December-2004 (1 week )
3	ECED-SVNIT Under TEQIP	Two days Training /Workshop on “Code composer studio” <b>Coordinator</b> Institutional Networking Activity	21-22 May-2005 (2 days)
4	ECED-SVNIT Under TEQIP	National level 3 days training program on “Simulation of Communication Systems’ <b>Coordinator</b> Institutional Networking Activity	20-22 Jan. 2006 (3 days)
5	ECED-SVNIT Under TEQIP	2 days training program on “Mobile Repairing” service to community under TEQIP- <b>Coordinator</b>	24-25 March 2007 2 days
6	SVNIT, EQUATE Under TEQIP	Management Capacity Development program for middle level faculty <b>Co-coordinator</b>	4-8 Feb. 2008 (1 week)
7	ECED-SVNIT, AICTE sponsored	Short Term Training Programme on Microwave Integrated Circuits <b>Organizing Committee member</b>	16-20 June, 2008 (1 Week)
8	ECED-SVNIT, AICTE, DST, CSIR, SVNIT	National Conference on Advancements in Wireless Technologies and Applications-AWTA08 <b>Co-convener</b>	18-19 Dec 2008 (2 days)
9	ECED-SVNIT, AICTE sponsored	STTP on Nanotechnology <b>Organizing Committee member</b>	13-17 July, 2009 ( 1 week)
10	ECED-SVNIT AICTE sponsored	STTP on Teaching with MATLAB and SIMULINK <b>Coordinator</b>	21-25 Dec. 2009 (1 week)
11	ECED-SVNIT, Agilent/ASEPL	One day Training/workshop on Wireless Communication and FPGA Debugging <b>Coordinator</b>	16 <sup>th</sup> April 2011
12	ECED-SVNIT, Agilent/ASEPL	One Day Training/workshop on RF-Microwave/ Wireless communication & low level DC measurement Solution <b>Coordinator</b>	18 <sup>th</sup> April 2012
13	ECED-SVNIT, IEEE, IETE, IE, SVNIT, TEQIP, GUJCOST, CSIR, DRDO, Agilent, NI, sponsored	1 <sup>st</sup> IEEE International Conference on Emerging Technology Trends in Electronics, Communication and Networking— Et2ECN2012	19-21 Dec. 2012 (3 days)

		<b>Conference Chair</b>	
14	ECED-SVNIT Under TEQIP	STTP on 3G and 4G Technologies <b>Coordinator</b>	30 <sup>th</sup> Sept-4 <sup>th</sup> Oct. 2013 (1 week)
15	ECED-SVNIT, IETE supported under TEQIP	Two days Finishing School Program on Mathematical and Statistical applications in Electro-Communication Systems <b>Coordinator</b>	27-28 Feb 2014 (2 Days)
16	ECED-SVNIT, TEQIP	2-days Workshop on Amateur Radio Digital Information and Communication Technologies Speaker—Mr Miroslav Skoric from UK <b>Co-ordinator</b>	8-9 September 2014 (2 Days)
17	ECED-SVNIT, IEEE, SVNIT, TEQIP, NewAge, Royal Electronics	2 <sup>nd</sup> IEEE International Conference on Emerging Technology Trends in Electronics, Communication and Networking— Et2ECN2014 <b>Conference Co-ordinator</b>	26-27 Dec. 2014 (2 days)
18	ECED-SVNIT, IETE supported TEQIP sponsored	2-days Workshop on Wireless Sensor Network <b>Co-ordinator</b>	3-4 September, 2015 (2 Days)
19	At Vadodara, IETE Vadodara and IETE Surat Sub-center joint event	1 day seminar on World telecom and Information Society day-2015 <b>Chair-IETE Surat Subcenter</b>	17 <sup>th</sup> May, 2015 (1 Day)
20	ECED-SVNIT, TEQIP	Two days Workshop on IoT-Internet of Things—for students of the Department <b>Co-ordinator and HOD</b>	31 March-1 <sup>st</sup> April, 2016 (2 days)
21	ECED-SVNIT with EED SVNIT, Indian Railways funded	1 week (48 Hours) Training cum Workshop for Supervisors and Technicians of Indian Railways for Upgrading their Skills (Batch 1) <b>Main Co-ordinator and correspondent</b>	6-11 February, 2017
22	ECED-SVNIT with EED SVNIT, Indian Railways funded	1 week (48 Hours) Training cum Workshop for Supervisors and Technicians of Indian Railways for Upgrading their Skills (Batch 2) <b>Main Co-ordinator and correspondent</b>	13-18 February, 2017
23	ECED-SVNIT, EAI, GUJCOST-DST, DRDO, Keysight Technologies, SVNIT AA Surat Chapter and Swapn-Preeti-Bhadresh Foundations, Scientech	1 <sup>st</sup> EAI International Conference on Future Internet Technologies and Trends  <b>General Chair and Member of Steering Committee along with Dr Imrich Chlamtac, Professor, Trento Uni and President EAI, Italy</b>	31 <sup>st</sup> August-2 <sup>nd</sup> September, 2017 (3 Days)

## Expert Lectures Delivered

Sr. No.	Title of the Lecture	Place of Delivering	Date	Event
1	Bluetooth Technology for wireless communication	SVRCET, Surat	25 Dec,2001	STTP on "Advance Communication Systems"
2	Wireless Access Protocol-WAP"	SVRCET, Surat	26 Dec. 2001	STTP on "Advance Communication Systems"
3	Network Security	SCET, Surat	2 Nov 2004	STTP on "Information Security"
4	Digital modulation Schemes (3 Hrs.)	SVNIT, Surat	13 Dec,2004	STTP on "Wideband Wireless Digital Communication"
5	Orthogonal Frequency Division Multiplexing	SVNIT, Surat	15 Dec.2004	STTP on "Wideband Wireless Digital Communication",
6	Code composer studio (whole day)	SVNIT, Surat	21 May 2005	Two days training Prog. On "Code Composer Studio
7	Code composer studio (whole day LAB session)	SVNIT, Surat	22 May 2005	Two days training prog. On "Code Composer Studio
8	MATLAB- Communication toolbox	CKPCET, Surat	16 July, 2005	Three days workshop on MATLAB
9	MATLAB- Communication toolbox	SVNIT, Surat	23 Oct. 2005	Three days workshop on MATLAB for students
10	Simulation of communication systems and modeling	SVNIT, Surat	20 Jan 2005	Three days training program on "Simulation of communication systems"
11	Performance of various simulators	SVNIT, Surat	22 Jan 2005	Three days training program on "Simulation of communication systems"
12	OFDM simulation-a case study	SVNIT, Surat	22 Jan 2005	Three days training program on "Simulation of communication systems"
13	Advance solar Energy technologies using Electronics and their applications (paper)	SVNIT, Surat	10 July, 2000	STTP on "Advances in Solar Energy Technology"
14	N. V. Gadadhar Memorial lecture on OFDM System	IETE, Bangalore	15 Sept. 2006	One day workshop on RF Technologies and N. V. Gadadhar award ceremony
15	Software Defined Radio	IETE, Bangalore	15 Sept. 2006	One day workshop on RF Technologies and N. V. Gadadhar award ceremony
16	Three hours lecture on OFDM System and OFDM Simulation	SCET, Surat	3 <sup>rd</sup> Jan. 2007	STTP on " Wireless Communication and

				Networks”
17	Multicarrier Communication	IETE Students Forum, ECED, Surat	18 <sup>th</sup> Sept, 2008	5 lecture series on wireless communication for which certificates provided to the participants
18	Introduction to MATLAB and Simulink	ECED, SVNIT, Surat	21 <sup>st</sup> Dec, 2009	STTP on Teaching with MATLAB and Simulink
19	2G to 3G convergence with LTE (Invited Keynote talk)	Parul Institute of Engg. And Tech., Vaghodia	4 <sup>th</sup> Dec. 2010	Two days National Conference on Emerging Vistas of Technology- NCEVT10
20	Digital Multimedia Broadcasting	C K Thakur College of Art and Sciences, Panvel	16 <sup>th</sup> Dec. 2010	Two days National seminar on “Contemporary Issues in the field of ICT”
21	Simulation Methodology for Communication systems	ECED, SVNIT, Surat	21 <sup>st</sup> Dec. 2010	Research Group of ECED, SVNIT
22	Advance Mobile Networks	SNJB college, Chandwad, Nasik	5 <sup>th</sup> March, 2011	Invited special lecture
23	OFDM Technology	MNIT, Jaipur	10 <sup>th</sup> January, 2012	STTP on "Optical and Wireless Communication Technologies"
24	Adhoc Networks	Marwadi group of Edu foundations, Rajkot	21 <sup>st</sup> March 2013	Invited special lecture
25	Wireless Sensor Networks	Maliba campus	10 <sup>th</sup> April 2013	Invited special lecture
26	Wireless Sensor Networks	TEQIP, ECED	27 <sup>th</sup> June, 2013	STTP on Wireless and Optical Communication
27	2G to 4G evolution and CDMA Technology	TEQIP, ECED	30 <sup>th</sup> Sept, 2013	STTP on 3G and 4G Technology
28	WiFi and WiMAX	TEQIP, ECED	1 <sup>st</sup> Oct. 2013	STTP on 3G and 4G Technology
29	Mobile Computing	TEQIP, ECED	1st Oct. 2013	STTP on 3G and 4G Technology
30	RF Circuits and Designs	ISF, IETE	1st Feb. 2014	IETE sponsored Students Day
31	Advance Networks	INS, Valsura, Jamnagar	13 <sup>th</sup> June 2014	Invited QIP lecture
32	MIMO Technology	Govt. Engineering college , Amaravati	6 <sup>th</sup> Oct. 2014	IEEE INPAC 2014, Tutorial
33	Femtocell Interference in LTE	Govt. Engineering college , Amaravati	6 <sup>th</sup> Oct. 2014	IEEE INPAC 2014 Keynote and session chair



34	Applications of Digital signal Processing in Communications (Course for 5 days—10 lectures)	INS, Valsura	27 <sup>th</sup> December to 31 <sup>st</sup> December 2014	Invited Lectures at INS Valsura, Jamnagar for their sailors
35	Fundamentals of Wireless Communication-Channel Models	Nirma University, Ahmedabad	16 <sup>th</sup> Dec. 2015	STTP on Wireless Communication
36	Introduction to SDR and MIMO	SGSITS, Indore	30 <sup>th</sup> Nov. 2015	One Week programme on Fundamentals and Applications of SDR and MIMO Communication Systems
37	Advance Networks	IETE Vadodara	17 <sup>th</sup> May 2015	World telecom and Information Society day 2015
38	1G to 5G Evolution	CGPIT, Maliba Campus, Bardoli	22 <sup>nd</sup> Jan, 2016	National Conference on Recent Advances in engineering for Sustainability
39	5G Bandwidth and Resource Management	Laxmi Institute, Sarigram, Vapi	20 <sup>th</sup> Feb. 2016	Apex Forum on Bandwidth Management of 5G
40	Role of Women Safety in National Growth	Vanita Vishram and SGPC	8 <sup>th</sup> March, 2016	Women's day program in Vanita Vishram
41	Long Term Evolution—to 5G	SCET	23 <sup>rd</sup> Feb. 2016	Special Invited Talk for UG and PG
42	LTE-Leading to 5G	ITM Universe, Vadodara	9 <sup>th</sup> April 2016 (Morning session)	National conference – Keynote and session chair in RTEECE2016
43	LTE-Leading to 5G	Parul University, Vaghodia	9 <sup>th</sup> April 2016 (afternoon session)	National conference – Keynote and session chair in NCEVT2016
44	Being a Woman in Men's World	L & T, Hazira	8 <sup>th</sup> March 2012	Special talk on Women's day at L&T Campus
45	Wireless Networks	Govt Polytechnic for Girls	8 <sup>th</sup> June 2017	ISTE and CTE approved STTP on ICT tools for Enhancing Teaching Learning Process
46	Internet of Things	Govt Polytechnic for Girls	8 <sup>th</sup> June 2017	ISTE and CTE approved STTP on ICT tools for Enhancing Teaching Learning Process
47	Wireless Technologies for IoT with MAC and Network Layer Constraints	BVM Engineering College, V.V. Nagar	20 <sup>th</sup> December, 2017	TEQIP III STTP on Designing Wireless, Embedded and IoT Systems
48	Cellular Planning for 5G with optimization Techniques	UBO-IBNM, University of	2 <sup>nd</sup> March, 2018	Special invited Lecture for 2 hours

		Brest-France		
49	5G Technologies	G H Raisoni College Jalgaon	17 <sup>th</sup> March 2018	Whole day seminar on Wireless technologies in 5G—spoke for 4 hours

### Conferences/ Seminars Attended

Sr. No.	Title	Institute/Organization	Duration		
			From	To	Days
1.	IETE 47 <sup>th</sup> Annual Convention and Conference on Broadband Systems and Expo2004	IETE, Bhaikaka Hall, Ahmedabad	25/11/2004	26/11/2004	2
2.	IETE one day seminar on Telecommunication	IETE, Vadodara Co-sponsored by BSNL	17/5/2005		1
3.	IETE 48 <sup>th</sup> Annual convention and International Conference on “Information and Communication” and Expo2005	IETE, Hotel Taj Palace, New Delhi	23/11/2005	25/11/2005	3
4.	IE 22 <sup>nd</sup> annual convention and conference on “advances in EC and telecommunications- Vision 2020”,	Kund Kund Hall, Jaipur	4/8/2006	5/8/2006	2
5.	International Conference TIES2007	Sathyabhama University, Chennai	12/11/2007	14/11/2007	3
6.	Agilent Measurement Technology seminar	Agilent, Hotel Pride, Ahmedabad	12/11/2008		1
7.	Regional seminar on Wireless Communication and Networking Tech.	Sponsored by IE and IETE, Vaswik Bhavan Vadodara	21/12/2008		1
8.	National Conference WINCON-2009	L & T Institute of Tech, Madh campus, Mumbai-cosponsors IEEE Bombay section and IETE Chapter	9/1/2009	10/1/2009	2
9.	One day workshop on “Intellectual Property Rights”	TEQIP, SVNIT	24/3/2009		1
10.	One day seminar on Economic Growth and National Integration	IIFS, India Habitat Center, Lodhi Road, New Delhi	9/4/2010		1
11.	WASET Conference-2010	Hotel River View Singapore	25/7/2010	27/7/2010	3
12.	WASET Conference-2011	Hotel Holiday Inn Paris	27/7/2011	29/7/2011	3

13	ICCEI	Hotel Mercury, Melbourne	2/1/2014	3/1/2014	2
14	NBA World Summit	Hotel Ashoka, New Delhi	8/3/2014	10/3/2014	3
15	ICICT-2015 International Conference on Information and communication technology	Hotel Suba Dubai	12/11/2015	13/11/2015	2
16	ICTIS 2017	Hotel Pride, Ahmedabad	25/03/2017	26/03/2017	2

## Glimpse of Foreign conferences

Paris 2011



Singapore 2010



Dubai 2015



Buffalo-NY 2016

### **Session Chair in the following Conferences**

WASET conference at Paris 2011  
RACCCT-12 SCET, Surat  
ICCEI 2014 at Melbourne, Australia  
RCEECE2016 at ITM universe Vadodara  
NCEVT2016 Parul University Vaghodia

### **Reviewer in Journals and Conferences**

1. Reviewer and Editorial Board member of Journal IJCT.
2. Reviewer and Editorial Board member of ISTE-ACEEE journals---International Journal of Electronics and Communication (IJEC)
3. Reviewer of IEEE transactions on Wireless Communication.
4. Reviewer of Journal of Telecommunication Systems, springer
5. Reviewer and TPC in various National and International Conferences as follows.
  - a. National Conference –NCFCA-09, Institute of Information Technology, Pune
  - b. National Conference-NUiCONE10, Institute of Tech., Nirma University
  - c. International Conference-ICCCS2011, NIT Rourkela )[ACM Proceedings ISBN:978-1-4503-0464-1] 12th to 14th February 2011
  - d. International Cnferences-ICAC3-11, Fr. Conceicao Rodrigues College of Engg. Mumbai
  - e. International Conference-ICISSET 2011, VVP Engg. College, Rajkot
  - f. IEEE International conferences Nuicone11 and Nuicone12, Institute of Tech., Nirma University
  - g. WCI2013—International Symposium on Women in Computing and Informatics (WCI-2013)**August 23-24, 2013, Mysore, India** <http://icacci-conference.org/site/wci2013>  
--Through EDAS
  - h. NCEVT-14 Parul Institute of Technology, Vaghodia Vadodara

### **Advisory Committee member in the conferences**

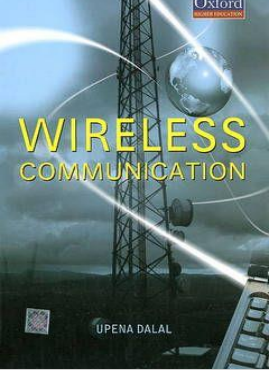

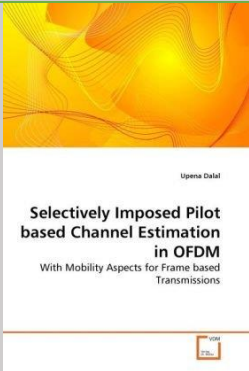
RACCCT-2012 SCET Surat  
ICRTET-2014 SNJB Chandwad  
CECnet 2013 [CECNet 2013 held in the city of Xian Ning, Hubei Province, China, from April 26st~28rd, 2013. CECNet is hosted by IEEE Consumer Electronics Society, and organized by Hubei University of Science and Technology (the former Xian Ning University). [CECNet conferences](#) got a big support from IEEE CE Society, and the CE Chairman Mr Stephen.D.Dukes have attended the former two conference]

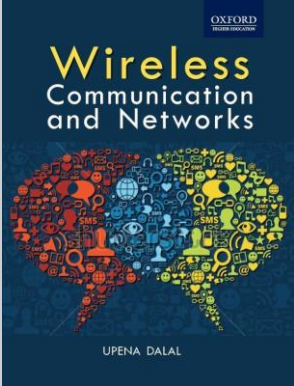
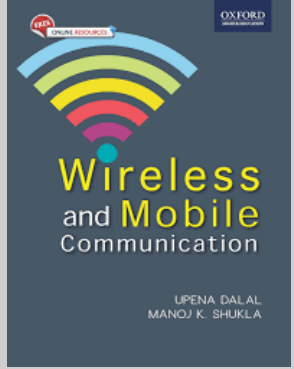
## Training Programmes and Workshops attended

Sr. No.	Title	Organizer	Sponsored by	Duration
1	3 days Training Program on "Industry Institute Partnership"	SVCET	ISTE	10-12 Mar, 1995
2	One day workshop on "Guidance And Counseling"	SVCET	ISTE	11 Nov. 1995
3	One day Workshop on "Induction Of Engineering College Teachers"	SVCET	ISTE	16 Dec, 1995
4	One day workshop on "TQM And ISO 9000 In Technical Education"	SVCET	ISTE	30 Sept,1996
5	Short Term Course on "Specification And Verification Of Real-Time Systems Using Duration Calculus"	SVCET	United Nations University, International institute of Software Technology, Macau	26-31 Jan,1998
6	Intensive Workshop on "Advanced Microcontrollers"	ECED, Faculty of Tech.and Engg. MSU, Baroda.	Swiss agency for Development and Cooperation	21-25 Dec,1998
7	Short Term Course on " Internet Unleashed "	SVCET, Computer Engg. Dept.	(AICTE/ISTE)	15-27 Mar, 1999
8	Technoprenuer Development & Tech. Management	E D cell SVCET	DSIR, New Delhi	30 Nov-2 Dec,1999
9	Basic Management Skill Development	E D cell SVCET	(AICTE/ISTE)	28-30 Dec,1999
10	Advances in Solar Energy Technology	SVCET, Mechanical Engg. Dept.	(AICTE/ISTE)	3-14 July,2000
11	Rehabilitation of Sick Units	E D cell SVCET	DSIR, New Delhi	15-17 Mar,2001
12	Faculty Development Programme in Entrepreneurship	SVCET, Surat	GUJCOST	23-28 July, 2001
13	STTP on "Digital Stegenography"	ECED, SCET, Surat	GUJCOST	28 Jun-3 July, 2004
14	STTP on "Hostel Management, Student Health and Welfare"	Continuing Education Center-SVNIT,	AICTE, ISTE	27-31 Dec, 2004
15	Management Capacity Development program for middle level faculty	SVNIT, EQUATE	TEQIP fund SVNIT	4-8 Feb. 2008

16	One day workshop on "Intellectual Property Rights"	SVNIT	TEQIP	24 <sup>th</sup> March, 2009
17	STTP on " Nanotechnology"	ECED, SVNIT	AICTE, SVNIT	13 to 17 <sup>th</sup> July, 2009
18	IUCEE 2009 "Teaching with MATLAB and SIMULINK"	Mysore Training center	IUCEE	22-26 June, 2009
19	IUCEE 2010 "Mobile Computing"	VIT, Pune	IUCEE	21-25 June, 2010

## Publications

Sr. No.	Title	Publisher	Edition	Month & year of publication
1.	 <p>(It is the first book by Oxford press from Gujarat region in the Electronics field )</p>	Oxford University Press, New Delhi	1st total 7th reprints	July 2009 (Available)
2.	<p><b>Editor</b> of the book +<b>Author</b> of one chapter in the open source book titled</p> <p><b>WiMAX Developments:</b> Chapter Title: Adaptive Parameters Based Transmission Control and Optimization in Mobile WiMAX at Physical Layer. Co-author: Dr. Y P Kosta</p> 	Intechweb Publication, Vienna, Austria <a href="http://www.intechweb.org">www.intechweb.org</a>	1st	Feb, 2010 Open source book on the net
3.		VDM publication, Verlag Dr Mullar, Germany Printed in UK and USA	Academic publishing	2010

4	 <p>with PPT, MATLAB exercises and solution set</p>	Oxford University Press, New Delhi	1 <sup>st</sup>	published in January 2015
5	 <p>with PPT, MATLAB exercises and solution set</p>	Oxford University Press, New Delhi	1 <sup>st</sup>	Published in January 2017

## Extra Curricular Activities

### Technical Activities

1. Jury in various technical model competitions in SVNIT, SS Gandhi and other colleges.
2. Jury in paper contest of Mindbend (SVNIT), Kshitij (SCET) and Technical events (CKPCET)
3. As a jury member in National Level paper contest on wireless security and Networking, IETE, Vadodara Center on 10<sup>th</sup> Jan, 2010

## Review of Books

Two books are reviewed both from Tata McGraw Hill Publications for their revised editions

1. "Principles of Communication Systems" by Taub and Schilling Published by Tata Mc Graw Hill. Review submitted on 12<sup>th</sup> August-2005.
2. "Electronic Communication systems, 4e" by Kennedy and Davis. Review submitted on 14<sup>th</sup> Nov. 2005
3. New book on "Digital Communication" by R N Mutagi from Oxford publications
4. New book on 'Wireless Communication' by Singhal published by TMH



## Editorial work

- Proceeding of National Conference AWTA-08 published by Excel India
- Proceeding of IEEE international conference ET2ECN-2012 published by IEEE conference publishing services, available on IEEEExplore with **IEEE Catalog Number: CFP1273S-PRT**  
**ISBN:978-1-4673-1628-6** DOI : 10.1109/ET2ECN.2012

## Patents filed

(12) PATENT APPLICATION PUBLICATION	(21) Application No.2570/MUM/2014 A
(19) INDIA	
(22) Date of filing of Application :09/08/2014	(43) Publication Date : 21/11/2014
(54) Title of the invention : A NOVEL SLM-DEEP CLIPPING BASED PAPR REDUCTION TECHNIQUE IN DCT PRECODED OFDM SYSTEM	
(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:H04L29/06, H04K1/10 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA
(71)Name of Applicant : 1)Sardar Vallabhbhai National Institute of Technology Address of Applicant :SVNIT Campus, Ichchhanath, Surat, - 395007 Gujarat India (72)Name of Inventor : 1)Shilpi Gupta 2)Ketan H Agraval 3)Dr. Upena Devang Dalal	
(57) Abstract : Present invention relates to high speed wireless communication systems. More particularly, present invention relates to OFDM-based wireless communication systems. Proposed PAPR Reduction technique of instant invention involves, generating OFDM signal; DCT-Preceding; Applying SLM Technique; Applying clip or deep clip; and Measuring PAPR of OFDM signal.	
No. of Pages : 16 No. of Claims : 8	

FORM 1 THE PATENTS ACT, 1970 (39 of 1970) & THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT [See sections 7,54 & 135 and rule 20(1)]	(FOR OFFICE USE ONLY)  Application No.:..... Filing Date:..... Amount of Fee Paid:..... CBR No.:..... Signature:.....
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### 1. APPLICANT(S)

Sr.	Name	Nationality	Address
1	Sardar Vallabhbhai National Institute of Technology	India	SVNIT Campus, Ichchhanath, Surat, Gujarat, India-395007

### 2. INVENTOR(S)

Sr.	Name	Nationality	Address
1	Vishakha Purnanand Bhale	India	Research Scholar, Department of Electronics Engineering, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat, Gujarat, India-395007, India
2	Dr. Upena Devang Dalal	India	Associate Professor, Department of Electronics Engineering, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat, Gujarat, India-395007, India
3	Dr. Rajendra M. Patrikar	India	Professor, Department of Electronics & Communication Engineering, Visvesvaraya National Institute of Technology (V NIT), Nagpur-440001, Maharashtra, India.

### 3. TITLE OF THE INVENTION:TWO - STAGE POWER AMPLIFIER

4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA Vikas Asawat Registered Patent & Trade Mark Attorney 3/183, Ganesh Talab, Basant Vihar Kota, Rajasthan Pin 324009 India	Telephone No.:07442401322 Fax No.:07442401322 Mobile No.:..... E-mail:vsasawat@gmail.com
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### 5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.	Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention
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## Research Projects

1. National mission pedagogy project of IIT Kharagpur...Developed course on Optical Communication and reviewed course on Mobile Communication.
2. MoU with ISRO for IRNSS Navigation Receiver Field Trial and Data Collection. Receiver— Fixed and mobile unit given by ISRO to the department and data is sent on weekly basis
3. Strengthening IRNSS receiver by mitigation of interference –Project worth Rs 31.21 lakhs

### **Consultancy work**

1. MoU with Indian Navy in October 2015 for five years, under which M. Tech Guided to Left. Commanding officer Mr Mahesh. A one week course on Applications of DSP conducted at INS Valsura, QIP lecture delivered etc.
2. Two short duration Training programs for Indian railways Supervisors and Engineers of western zone

### Additional remarks:-

- a. MATLAB exposure.
- b. Significant contributions: Mainly contributed in the field of Communication, specifically wireless communication and done the major work in 4G technologies like CDMA and OFDM, still doing. Contribution is in form of effective teaching and literature/publications. Presently work towards DSP based OFDM system development may lead to OFDM system trainer.
- c. The book authored is for Final year UG as well as PG students specially and listed under best sellers. Majorly adopted in Anna University and institutes in Madhya-pradesh region.
- d. Majority of the subjects taught are self prepared as there were very less resources before 10 years. Her significant initiatives made her a role-model in the department.
- e. Giving recommendation letters to the students for further studies abroad (100+). More than 50 students working under me/recommended by me got the admissions in good foreign universities.
- f. Guided M Tech by research to a person from E-infochip, Ahmedabad, which is for the development of WiMAX chip.
- g. Inspirations for the womanhood, because there are very less percentage of the female involved in engineering and especially for Communication engineering.
- h. E-governance using wireless technologies- project under nominee will help the e-governance department of India for finding better solutions for rural area communication

**Head of Electronics Engineering Department From June 2014 to June 2016**  
**Associate Dean Faculty welfare June 2016 onwards**

Sr. No.	Department Level Activities
1	Time table committee member during 1999-2001
2	Lab development activities in terms of purchase and maintenance and new projects development.
3	Alumni activities: Treasurer for the Electronics Deptt. Alumni Association established in 2000-2001 and continued for one and a half year. Thereafter the association was merged in the Institution common alumni association.
4	Library In-charge for 2004-06. Collected more than 100 books for the department. Established departmental library.
5	Paper setting, Examination work, supervision and practical related duties
6	Active participation in revision of syllabus work number of times. Member of Departmental board UG and PG studies
7	Active and leading participation in making proposal and framing syllabus for Commencement of M.Tech (Communication Systems) in ECED.
8	<p>more than 200 seminars guided to the UG students till now mostly in communication field.</p> <p><b>B.E./ B. Tech. Projects Guided</b></p> <ul style="list-style-type: none"> <li>• Programmable Alarm-hardware (91-92)</li> <li>• Cordless Intercom-Hardware (91-92)</li> <li>• Utility board for interfacing IBM compatible PC to PAL TV receiver-hardware/software(93-94)</li> <li>• 4-station 2-way Intercom-hardware (93-94)</li> <li>• Development of voice-data integrating system for ISDN-hardware(94-95)</li> <li>• Basic Receiver system for the paging Network-hardware (94-95)</li> <li>• Basic Transmission system for paging network-hardware(95-96)</li> <li>• Direct sequence spread spectrum modulator-demodulator hardware(96-97)</li> <li>• ISDN-basic design using PCM technique-hardware(96-97)</li> <li>• Paging system transmitter and receiver(96-97)</li> <li>• Frame generation through synchronous TDM of 16 channels-hardware(98-99)</li> <li>• Error control on a point to point link-Hardware/software(98-99)</li> <li>• Digital matched filter correlator for long code sequences in DSSS-hardware/software(98-99)</li> <li>• Time slot interchanging for switch design(TSI) -hardware/software(98-99)</li> <li>• Establishment of LAN-hardware/software (99-2000) [group of 16 students]</li> <li>• Data and voice integration for ISDN-hardware(2000-01)</li> <li>• Speaker verification and recognition using MATLAB(speech processing) software(2000-01)</li> <li>• Voice scrambling and descrambling using hardware and its computer simulation(2001-02)</li> <li>• CDMA simulation using MATLAB and its link testing(2001-02)</li> <li>• Image compression using MATLAB(2001-02)</li> <li>• Controlling electrical appliances using microprocessors over established LAN Hardware/software(2002-03)</li> <li>• Spread spectrum radio design-hardware/software(2002-03)</li> <li>• Laboratory simulation of Multi-path fading effect in mobile cellular communication-Rayleigh fade simulator Hardware/software(2002-03)project was appreciated a lot by Reliance and on the basis of which one student got the placement</li> <li>• Orthogonal frequency division multiplexing using MATLAB(2004-05)</li> <li>• OFDM using Code Composer Studio simulator(2004-05)</li> <li>• Cell site design using MATLAB simulator(2005-06) work in progress</li> <li>• Pulse shaping in OFDM system for spectral efficiency (2005-06) in continuation with previous projects on OFDM—work is published</li> <li>• OFDM system implementation using software defined radio approach on DSP kit.(2006-07)</li> </ul>

- Turbo coded OFDM (2006-07)
- Hybrid OFDM (2006-07)
- Wireless sensor network physical layer implementation using DSP starter kit (2007-08)
- Channel estimation in OFDM with imposed pilot setting (2008-09)
- Channel estimation in OFDM using Kalman filter (2008-09)
- OFDM system performance with cyclic prefix (2009-10)
- Analysis of MAC layer in WiMAX IEEE 802.16 and scheduling algorithms—simulations by NS2 (2010-11)
- LTE Physical layer—Design and Implementation using SYSTEMVIEW (2011-12)
- Joint source and channel coding of Digital Video (2012-13)
- 

Further to be upgraded

### M. Tech projects

- M. Tech Dissertation on “OFDM system simulation, link testing and BER analysis with 16-QAM and M-QAM mapping” –(2006-07)- work is published (2006-07)
- DWDM link simulation on Photonic CAD(2007-09)
- JPEG immune digital watermarking ((2007-08)
- Wireless control system using DSP processor based hardware design (2007-08)
- Image compression using wavelet transforms.(2007-09)
- Image Compression by SPIHT algo.(2008-09)
- Turbo coding in WCDMA system(2008-09)
- Iris recognition based system with memory optimization (2008 onwards- currently working)
- E-governance using wireless technology(2009 onwards- currently working)
- WiMax physical layer design(2009 onwards- currently working)
- Four students combinedly working on “DSP based implementation of OFDM system using SDR approach” (2009)
- Spectrum sensing Techniques for Cognitive radio (2011)
- AODV and RAODV—simulations and comparison.
- LTE Physical Layer with Cognitive Aspects (2013)

Reports available in the department

<b>Ph. D. Scholars</b>	<b>21</b>
<b>M.Tech. Dissertations</b>	M.Tech. –14, M.Tech.by Research-5
<b>M. Tech. Seminars</b>	13

Member of PG and Ph. D. candidate’s selection committees.

### List of completed/ongoing Ph D titles

- Rakesh Jha---WiMAX Infrastructure Modeling Using OPNET Modeler With LBRRRA Scheme Optimization, Attack Modeling And Security Analysis With Proposed Solutions
- Vishal Wankhede---Optimized Resource Allocation for Physical Layer of Mobile WiMAX Network Applied in Scheduling of Scalable Video Multicast

- Shweta Shah---A Novel Modified Hierarchical Modulation for Video streaming in DVB-H Under Channel Impairments
  - Shilpi Gupta---Performance Analysis of Novel Robust Non-conventional Combinations of Mapping and Transform Techniques at Modulation Stage of OFDM System over Multipath Fading Channel
  - Jay Joshi-- -Development and Analysis of Selective Encryption Algorithm for Sensitive Video Applications
  - Zuber Patel---Novel DWLC-FQ and BAFFQ Algorithms for Scheduling in WiMAX Enhancing Inter-clustering with LL-WRR and RED-AT
  - Vishakha Bhale---0.18  $\mu\text{m}$  CMOS 3-5 GHz IR Ultra Wide Band transceiver Design
  - Krupa Jariwala---A Robust Eye-Gaze Interface to Point and Select Task with Small targets for real Time Interface Using Low Grade Video Camera
  - Shubhangi Mahamuni---Spectrum and Handover Management and Handoff Delay Minimization for Cognitive Radio Adhoc N/W
  - Twinkle doshi---Novel DS-UWB Receiver over Different UWB Channels
  - Khyati Zalawadia—Design and Testing of Prototype calibration Unit of Receiving End 2-Beam Digital Beam-former for Future ISRO Satellite/On-board System
  - Nehal Shah—Hardware Efficient Block Matching Algorithm and Architecture Implementation for Fast Video Motion Estimation
  - Idris Bholebawa---Software Defined Networking Architecture and Performance Analysis of Openflow Network
  - P K Shah---Stability Analysis of 2-D PSV systems and Its Applications –Lypunav Stability
  - Mary Grace Shajan--InterCell Interference Management in LTE Advanced Heterogeneous Networks
  - Sonal Parmar---Total Electron Content Measurement Using GPS and IRNSS Signals at Low Latitude Station Surat
  - Vinay Singh---Performance Analysis of Visible Light Communication
  - Mehul Patel---LTE MAC Layer Design and Implementation with Scheduling and Resource management (Left)
  - Swati sakhare---HEVC Video Coding Technique
  - Dhananjay Patel—MMW Up Conversion using Mach-Zehnder Modulator
  - Sarosh Dastur---5G Cellular Planning (0.5)
- Amit Joshi---VLSI Implementation of Video watermarking Based on H.264 coding Standard (I/C Supervisor just for completion of viva voce)

- Abhilash Mandloi---Segmentation Based Channel Scheduling Algorithms for Improving Channel Utilization in OBS Networks (I/C Supervisor just for completion of viva voce)

#### Institute Level Activities

Sr. No.	Name of Activity
1	In-charge of paper assessment for B.E.2 <sup>nd</sup> in year 2002
2	Cultural committee member for 15 years till 2007. Also contributed for auditions during the programs and participated in the musical evenings.
3	Active participation in Mind-band activities by the students -- faculty advisor etc. especially in 1995, 1996, 2000
4	Media center (TEQIP) committee member. Purchase for Total Audio solution and Total Video Solution to have a complete Media Center in form of well equipped multimedia classroom- 2005
5	Institutional Networking Committee member (under TEQIP)
6	Central library committee member for two years 2004-2006
7	Registration Committee member during Convocation- 20 <sup>th</sup> August, 2005, other contribution in convocation.
8	Institute level purchase committee member since 2011

Developing the Advance Lab in RF and Wireless Communication. Partially funded by SVNIT, TEQIP and Agilent Technologies.

Co-developer of Subject Optical Communication for the MHRD sponsored Pedagogy project of IIT Kharagpur

Academic Advisory Committee member of Sarvajanik College of Engineering and Technology (SCET), Surat, Uka Tarsadia University, Bardoli and SGSITS Indore

Member of Departmental Academic Advisory Committee.

## Research and Publications:

### National Journal

Sr No.	Name of Journal	Volume No.	Month/Year	Title
1.	IETE Technical Review  <b>SCI Journal</b>	vol. 31, Issue No. 2, pp: 162-167  Publisher: Taylor & Francis)  <b>DOI:</b> <b><u>10.1080/02564602.2014.892757</u></b>	June 2014	Enhancing Capability of DVB-H by Three Layer Hierarchical Mapping <b>SNS, UDD</b>

### International Journal


Sr No.	Name of Journal	Volume No.	Month/Year	Title
1.	IJERIA-International Journal of Industrial Research and Applications, India	ISSN: 0974-1518, Vol 1 No.VII, pp. 283-298	2008	Reinvestigation Of Pilot Transmission Issues For OFDM With An Efficient Solution <b>UDD, YPK</b>
2.	IJERIA-International Journal of Industrial Research and Applications, India	ISSN: 0974-1518, Vol. 2 No. I, pp. 23-34	2009	Investigation of Transmission Performance of OC-768 DWDM Link using Photonics CAD 1.6 <b>PNP, UDD</b>
3.	IJERIA-International Journal of Industrial Research and Applications, India	ISSN: 0974-1518, Vol. 2 No. V, pp. 115-132	2009	A paper on Iris Recognition <b>KNJ, UDD</b>
*	International Journal of Electronics Engineering by Serial publication, India	Accepted for publication—positive review	2009	Case Study by Simulation: Time Varying Channel Effects on OFDM System Parameters <b>UDD, YPK</b>
4.	IJAS-International	ISSN: 1944-6934, 2009,	November	An efficient



	journal of Arts and sciences, Germany	Vol 3, Number 1, pp1-8	r, 2009	approach for iris recognition by improving iris segmentation and iris image compression <b>KNJ, UDD</b>
5.	IJERIA- International Journal of Industrial Research and Applications, India	ISSN: 0974-1518, Vol.3, No.II(2010), pp. 371-384	May 2010	Improvement in Performance of BER vs SNR of Direct Sequence Spread Spectrum CDMA Hardware using GOLD, MLS and Barker Codes and BPSK, QPSK Modulation Techniques with AWGN <b>NBK, UDD</b>
6.	IJERIA- International Journal of Industrial Research and Applications, India	ISSN: 0974-1518, Vol.3, No.II (2010), pp.411-424	2010	HDR texture Mapping in Real Time using the Latest NVIDIA Graphics Card-GEFORCE-9800 GT <b>U MISTRY, UDD</b>
7.	IJCSIS- International Journal of Computer Science and Information Security, USA	ISSN: 1947-5500, Vol.8, No.1, (pp. 125-131) Link: <a href="http://arxiv.org/ftp/arxiv/papers/1005/1005-0976.pdf">http://arxiv.org/ftp/arxiv/papers/1005/1005-0976.pdf</a> Cornell University Library	April 2010	A Survey on Mobile WiMAX IEEE 802.16m Standard <b>R JHA, VISHAL W, UDD</b>
8.	IJSC- International Journal of Scientific Computing, India	Vol. 4, No.1 , pp17-23	January-June 2010	A Survey on Mobile WiMAX Beyond IEEE 802.16e <b>R JHA, VISHAL W, UDD</b>
9.	WET- <i>Wireless Engineering and Technology</i> International Journal of Scientific Research, USA	ISSN 2152-2294(Print), 2152-2308(Online), Vol.1, No.1, pp. 20-26 Published Online July 2010 in SciRes ( <a href="http://www.scirp.org/journal/wet/">http://www.scirp.org/journal/wet/</a> ) most popular paper  DOI: <a href="https://doi.org/10.4236/wet.2010">10.4236/wet.2010</a> .	July 2010 (online) August 2010 (print)	WiMAX System Simulation and Performance Analysis under the Influence of Jamming <b>R JHA, H. PATEL, VISHAL W, UDD</b>



		<a href="#">11004 Downloads:</a> <b>3216</b> till 15th April 2014		
10.	IJACSA- International Journal of Advanced Computer Science and Applications, USA (certificate received)	ISSN: 2156-5570, Vol. 1, No.1, pp 50-54 Cornell University Library  Digital Object Identifier : <a href="#">10.14569/IJACSA.2010.010 109</a>	July 2010	[Survey Report] How WiMAX will Deploy in India <b>R JHA, UDD</b>
11.	IJCSIT- International Journal of Computer Science and Information Technologies	ISSN: 0975-9646, Vol. 1(4), 2010, pp 256-263	August 2010	A Journey on WiMAX and its Security Issues <b>R JHA, UDD</b>
12.	IJCA- International Journal of Computer Applications, New York, USA	ISBN: 978-93-80746-80-7 Special Issue on "Mobile Adhoc Networks"-MANETs, pp.78-83 Digital library: <a href="http://www.ijcaonline.org/specialissues/manets/number2/1018-59">http://www.ijcaonline.org/specialissues/manets/number2/1018-59</a> Published by foundation of Computer Science	Sept. 2010	A Performance Comparison of Routing Protocols (DSR and TORA) for Security Issue in MANET <b>R JHA, SURESH LIMKAR, UDD</b>
13.	IJCA- International Journal of Computer Applications, New York, USA	ISBN: 978-93-80746-70-8, Vol.6, Number 8, pp 24-27 Digital Library: <a href="http://www.ijcaonline.org/archives">http://www.ijcaonline.org/archives</a> Published by foundation of Computer Science	OCT.201 0	A Performance Comparison with Modulation Schemes in WIMAX Physical Layer Security Aspects <b>R JHA, UDD</b>
14.	IJRTET International Jour. Of Recent Trends in Engg. And Tech. , ©ACEEE, USA	Short paper, Vol.4 No.4, ISSN: 2158-5555 (print) ISSN: 2158-5563 (online)	Nov. 2010 (Published ) Jan. 2011 (Certificate of publication provided)	Hardware Implementation of Wavelet Based Speech Encryption for End-to-end Security in Mobile Communication System <b>JAY JOSHI, UDD</b>
15.	IJRTET International Jour. Of Recent Trends in Engg. And Tech. , ©ACEEE, USA	Review Paper, Vol.4, No.4 ISSN: 2158-5555 (print) ISSN: 2158-5563 (online)	Nov. 2010 (Published )	Survey on Commercial Digital Video Streaming Systems <b>SNS, UDD</b>
16.	TJC—The	Volume-2, Issue-2,	Feb -2011	Application of

	Journal of Computing	Sambhavam Publication ISSN: 0976-6928		WiMAX Technology for Electronic Governance in Rural Areas <b>KALPANA C, RAKESH JHA, UDD</b>
17	WET- <i>Wireless Engineering and Technology</i> International Journal of Scientific Research, USA	Vol.2 No.3(2011), pages 135-145 <a href="https://doi.org/10.4236/wet.2011.23020">DOI:10.4236/wet.2011.23020</a> <b>Downloads: 2174</b> till 15th April 2014	July 2011	Location based performance of WiMAX Network for QoS with Optimal Base Stations (BS) R JHA, IDRIS BH. UDD
17	WET- <i>Wireless Engineering and Technology</i> International Journal of Scientific Research, USA	Top ranking popular paper Vol.2 No.3(2011), pages 212-220 <a href="https://doi.org/10.4236/wet.2011.23029">DOI:10.4236/wet.2011.23029</a> <b>Downloads: 3480</b> till 15th April 2014	July 2011	E-Governance in Rural India: Need of Broadband Connectivity Using Wireless Technology <b>KALPANA CHAUDHARI, UPENA DALAL, RAKESH JHA</b>
18	AES Journals in Engineering, Management & Sciences	Journal of Information and Research in Electronics and Communication Engineering ISSN: 0975-6779, Issue 1, Vol.02, pp159-162	Dec.2011	WiFi Based Indoor Positioning Using Time-of-Arrival Technique. <b>NITIN CHAWLA, UDD, S.PATNAIK</b>
19	International Jour. Of Network and Information Security	Published online, October 2009 in MECS press, Volume 1, pp 9-16	Oct 2009	Mobile Governance Based on WiMAX Connectivity for Rural Development in India <b>KALPANA C., UDD, RAKESH JHA</b>
20	Scientific Journal of Advance Materials Research, Switzerland,	Volumes 403-408 DOI: 10.4028/www.scientific.net/AMR.403-408.3847, pp 3847-3853,	Nov. 2011	Design and Implementation of KASUMI Algorithm in ISMACryp Encryption for Video Content Protection in

				DVB-H Application <b>UDD, JAY JOSHI, K. PARMAR</b>
21	IJCA June 2013 Edition	Digital Library URL : <a href="http://www.ijcaonline.org/archives/volume72/number21/12663-9187">http://www.ijcaonline.org/archives/volume72/number21/12663-9187</a> ISBN : 973-93-80875-91-7		A Comparative Analysis of AODV and R-AODV Routing Protocols in MANETS <b>Pravanjan Das, UDD</b>
22	Series Title: Lecture Notes in Computer Science (SCI Expanded) <b>Book Title</b> Advanced Computing, Networking and Security <b>Book Subtitle</b> International Conference, ADCONS 2011, Surathkal, India, December 16-18, 2011, Revised Selected Papers  <b>Publisher</b>  Springer-Verlag Berlin Heidelberg	 <b>SCI Expanded</b> pp 279-288 <b>DOI</b> 10.1007/978-3-642-29280-4_33 <b>Print ISBN</b> 978-3-642-29279-8 <b>Online ISBN</b> 978-3-642-29280-4 Series Volume7135 Series ISSN 0302-9743	Dec. 2012	Electronic Governance in Rural Areas: A Performance Case Study with WiMAX Technology <b>R JHA, UDD</b>

<p>23</p>	<p><b>Series Title:</b> Lecture Notes in Computer Science (SCI Expanded) <b>Book Title</b> Advanced Computing, Networking and Security <b>Book Subtitle</b> International Conference, ADCONS 2011, Surathkal, India, December 16-18, 2011, Revised Selected Papers</p> <p><b>Publisher</b>  Springer-Verlag Berlin Heidelberg</p>	 <p><b>SCI Expanded</b></p> <p>pp 357-365 <b>DOI</b> 10.1007/978-3-642-29280-4_42 <b>Print ISBN</b> 978-3-642-29279-8 <b>Online ISBN</b> 978-3-642-29280-4 Series Volume7135 Series ISSN 0302-9743</p>	<p>Dec. 2012</p>	<p>An optimum Approach for Radio Resource Allocation(RRA) in Mobile WiMAX Network <b>R JHA, WANKHEDE V., UDD</b></p>
<p>24</p>	<p><b>Book Title</b> Advances in Computing, Communication and Control <b>Book Subtitle</b> International Conference, ICAC3 2011, Mumbai, India, January 28-29, 2011. Proceedings</p> <p><b>Publisher</b>  Springer-Verlag Berlin Heidelberg</p>	 <p>Volume 125, 2011, pp 433-440</p> <p><b>DOI</b> 10.1007/978-3-642-18440-6_55 <b>Print ISBN</b> 978-3-642-18439-0</p>	<p>Jan 2011</p>	<p>A performance of security Aspects in WiMAX Physical layer with Different Modulation Schemes <b>R JHA, S.LIMKAR, UDD</b></p>

		<b>Online ISBN</b> 978-3-642-18440-6 Series Volume 125 Series ISSN 1865-0929		
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3D-image restoration technique using Genetic Algorithm to solve blurring problems of images

Shah M.<sup>\*1</sup>; Dalal U. D.<sup>2</sup>

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Keywords: [image de-blurring](#), [image restoration](#), [3D image](#), [Richardson–Lucy algorithm](#), [genetic algorithm](#)

DOI: <http://dx.doi.org/10.1179/1743131X13Y.0000000067>

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ICSC-2013 Priyanka lineswala

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Fast Video Motion Information Computation using Statistical Analysis

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Impact of GOP size on individual and combined scalability in H.264/SVC

Nehal Shah, UDD iMAC4s-2013

**Title :** Optimization of Parallel Network Consisting of Noise and Echo Reduction Modules

**Author(s) :** Anand Chandra S, Phani Kumar Nyshadham, Niranjan Avadhanam, Upena D Dalal

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Sr No.	Name of Conference/Seminar	pp-Month/Year	Venue	Title
	<b>International Conference/Seminar</b>			
1.	International conference TIES2007 Technical collaborator-IEEE  Certificate received	Volume-1 pp-6-11  12-14 Nov.2007	Sathyabhama University, Chennai	A study of various issues of pilot based channel estimation methods for OFDM system over time varying channel <b>UDD, YPK, KSD, HKP</b>
2.	International conference ICCIMA 2007, Proceeding published by IEEE CS press, Paper available on IEEEexplore	pp 407-411 Vol. IV  13-15 Dec. 2007	Mepco skelnik Engg. College, Shivakashi	A comparative performance analysis of OFDM using MATLAB simulation with M-PSK and M-QAM mapping <b>JNP, UDD</b>
3.	International conference WCSN2007, Paper is available on IEEEexplore	pp-64-69  13-15 Dec. 2007	IIIT, Allahabad.	Study of issues related to adaptive channel


				estimation in OFDM system-MWBA aspects <b>UDD, YPK, KSD</b>
4.	International conference on Cognition and Recognition, Certificate received	pp. 103-107 10-12 April, 2007	P.S.E. College, Mandya, Karnataka	A Robust Digital Watermarking <b>MP, CP, UDD</b>
5.	13 <sup>th</sup> VLSI Design and Test Symposium, IEEE/ VSI VDAT 2009,	8-10 July 2009	Learning Center, Wipro Campus, Bangalore.	Design and Analysis of Low Power Viterbi Decoder for CDMA System <b>Ketki Joshi, ADD, UDD</b>
6.	ARTCOM 2009—ACEEE and IEEE communication society, Paper is available on IEEExplore	Proceeding in CD form 27-28 Oct, 2009	Kottayam, Kerala	Simulation of NLOS WiMAX-IEEE 802.16e physical layer using MIMO Doppler Channel Model with Imposed Comb Pilots <b>UDD, YPK</b>
7.	International conference for international journals for arts and sciences—(Joint Journal Conference)	Proceeding in CD form 7-9, Nov, 2009	Germany	An efficient approach for iris recognition by improving iris segmentation and iris image compression <b>KNJ, UDD</b>
8.	ITC 2010-International Conference on Recent Trends in Information, Telecommunication, and Computing, Proceeding published by IEEE Computer Society, paper is available on IEEExplore	pp.281-283, 12-13 March, 2010	Kochi, Kerala	Security Comparison of Wired and Wireless Network with Firewall and Virtual Private Network (VPN), <b>R JHA, UDD, YPK</b>
9.	ICECSE 2010, International Conference on Electrical, Computer and Systems Engineering organized by WASET	ISSN: 2070-3724 Volume 61, pp-516-521 January 29-31, 2010	Cape Town, South Africa;	Survey on Reduction in Peak-to-Average Power Ratio for OFDM

				Systems <b>VISHAL W, UDD, YPK</b>
10.	International Conference on Computer and Communication Engineering (ICCCE 2010)  Paper available on IEEExplore	Print ISBN: 978-1-4244-6233-9, pp. 1-5  11-13 May, 2010	Kuala Lumpur, Malaysia	Optimized Configurable Architecture of Modulation Techniques for SDR Applications <b>JIGNESH OZA, Y PATEL, P TRIVEDI, NILESH RANPURA, ZMP, UDD</b>
11.	ICWMCS 2010-International Conference on Wireless and Mobile Communication Systems, WASET	Year 6, Issue 69, pp-984-991 25-27 August, 2010	Singapore	Survey on Role of Scalable OFDM for VoIP in Mobile WiMAX <b>R JHA, VISHAL W, UDD</b>
12.	CNC 2010-International Conference on Advances in Communication, Networking and Computing— Paper available on IEEExplore	4-5 Oct. 2010	Calicut, Kerala, India	Performance Comparison of Intelligent Jamming in RF(Physical) Layer with WLAN Ethernet Router and WLAN Ethernet Bridge <b>R JHA, VISHAL W, UDD</b>
13.	CNC 2010-International Conference on Advances in Communication, Networking and Computing— Paper available on IEEExplore	4-5 Oct. 2010	Calicut, Kerala, India	Survey on Role of Scalable OFDM in Mobile WiMAX <b>VISHAL W, R JHA, UDD</b>
14.	2010 ITU-T Kaleidoscope Academic Conference  <i>Topic: Beyond the Internet? Innovations for future networks and services</i>  Young Author Award given to Rakesh Jha	92-61-13171-9/ <i>IEEE catalog Number---</i> <i>CFP1038E</i>  13-15 Dec, 2010  IEEExplore <b>Page(s):</b>  1 - 6	ITU-T Pune	Performance Comparison of Intelligent Jamming in RF(Physical) Layer with WLAN Ethernet Router and WLAN Ethernet Bridge



		<b>E-ISBN :</b> 978-92-61-13171-5  <b>Print ISBN:</b> 978-1-4244-8272-6		<b>R JHA, UDD</b>
15.	Multiconf-2011—Second International Conference on Signals, Systems and Automation-2011 (ICSSA2011) And International Conference on Intelligent Systems and Data Processing 2011 (ICISD 2011)	Universal Publishers, Boca Raton, Florida, USA ISBN:978-1-6123-3002-0  24-25 January, 2011	Charutar Vidyamandal, GCET, V Vnagar, Gujarat	Interference Rejection performance of Adaptive Beam forming through LMS Algorithm <b>KHYATI Z, TWINKLE D., UDD</b>
16.	Multiconf-2011—Second International Conference on Signals, Systems and Automation-2011 (ICSSA2011) And International Conference on Intelligent Systems and Data Processing 2011 (ICISD 2011)	Universal Publishers, Boca Raton, Florida, USA ISBN:978-1-6123-3002-0  24-25 January, 2011	Charutar Vidyamandal, GCET, V Vnagar, Gujarat	Performance Analysis of a Rake Receiver with LMS Algorithm <b>TWINKLE D., KHYATI Z, UDD</b>
17.	ICACO3-2011, International Conference on Advances in Computing, communication and Control	Proceeding available on Springerlink, Volume 125, part-2 pp 433-440, DOI:10, 10071978-3-642-18440-6-55  28-29 January, 2011	Fr. Conceicao Rodrigues College of Engineering, Mumbai, Maharashtra	A Performance of Security Aspect in WiMAX Physical Layer with Different Modulation Schemes <b>RAKESH JHA, SURESH L, UDD</b>
18.	ICWET-2011, International Conference and Workshop on Emerging Trends in Technology	Proceeding available on ACM Digital Library, New York, USA ACM 2011, ISBN 978-1-4503-0449-8  25-26 Feb, 2011	Mumbai, Maharashtra	<b>DHARA S. , UDD</b>
19.	2011 International Conference on Control, Robotics and Cybernetics (ICCRC 2011)  Paper Available on IEEEExplore	Certificate provided  Sponsored by	New Delhi	Design and Implementation of KASUMI Algorithm in ISMACryp Encryption for

	IEEE Catalog Number: CFP1176M-PRT ISBN: 978-1-4244-9709-6	 21-23 March 2011		Video Content Protection in DVB-H Application <b>JAY JOSHI, KIRAN PARMAR, UDD</b>
20.	ICECECE2011 WASET conference	e-Proceeding Print—ISSN 2010-376X Electronic: ISSN 2010-3778 pp-217-221 27-29 July,2011	Paris	Selective Encryption Using Ismacryp in Real Time Video Streaming of H.264/AVC for DVB –H <b>JAY JOSHI, UDD</b>
21.	ICECECE2011 WASET conference	E-Proceeding Print—ISSN 2010-376X Electronic: ISSN 2010-3778 pp-657-661 27-29 July,2011	Paris	A Review On Terrestrial Multimedia Communication Using OFDM <b>SNS, UDD</b>
22.	ICECECE2011 WASET conference	E-Proceeding Print—ISSN 2010-376X Electronic: ISSN 2010-3778 pp-733-736 27-29 July,2011	Paris	Comparison Of BER Performances For Conventional And Non-conventional Mapping Schemes Used In OFDM <b>RIDDHI P., SHILPI G., UDD</b>
23.	IDRC-2010, International Disaster and Risk Conference	Slides of presentation is available on the site <a href="http://www.conftool.com/idrc2010">www.conftool.com/idrc2010</a>  30 <sup>th</sup> May-3 <sup>rd</sup> June, 2010	Global Risk Forum-GRF, Davos, Switzerland	Assessing the Impacts and Developing Adaptation Strategies Using Application of Electronic Governance and ICTs for Climate Change <b>KALPANA C, UDD, KD KULAT</b>
24.	ICETECT 2011- International Conference on Emerging Trends in Electrical and Computer Technology	978-1-4244-7926-9/11/\$26.00 ©2011 IEEE (IEEEExplore) pp-857-863 23-24 March 2011	Nagercoil, India	Performance of Location Based WiMAX Network for QoS with Optimal Base stations (BS)

				<b>RAKESH JHA, UDD, SURESH L, IDRIS B.</b>
25.	TENCON 2011, Annual International Technical Conference of IEEE Region 10, the Asia Pacific Region	978-1-4577-0255-6/11/\$26.00 ©2011 IEEE (IEEEExplore)  Pp 274-278  21-24 Nov. 2011	Bali, Indonesia	Enhancing Selective ISMACryp Video Encryption for Real Time Applications in Handheld Devices <b>JAY JOSHI, UDD</b>
26	International Conference on Signals Systems and Automation- ICSSA 2009	Universal Publishers-- Boca Raton--Florida- USA---2010 ISBN-10:1-59942-869-5 and ISBN-13:978-1-59942-869-7  pp-151-155  28-29 Dec. 2009	  GCET V,Vnagar	Design, Simulation Testing of Rectangular Microstrip Patch Antenna Array <b>KHYATI Z, TWINKLE D., UDD</b>
29	2011 IEEE Conference on Computational Intelligence and Communication Networks--CICN-2011	DOI: 10.1109/CICN.2011.20  <b>IEEE Catalog Number: CFP1127L-PRT</b> <b>ISBN: 978-1-4577-2033-8</b>  pp-102-106 7-9 Oct. 2011	MIR Labs, Gwalior	Adaptive Beam Former Design Using RLS Algorithm for Smart Antenna System <b>KHYATI Z, TWINKLE D., UDD</b>
30	<b>IEEE International Conference on Computational Intelligence and Computing Research (ICCIC)</b>  ICCIC--2011	IEEE Catalog Number : CFB1120J-ART ISBN: 978-1-61284-694  Print version: CFB1120J-PRT ISBN: 978-1-61284-766-5  15-18 Dec.2011	Cape Institute of Technology, Kanyakumari	Interference Rejection of Beam-former through Blind Algorithm for W-CDMA System <b>KHYATI Z, TWINKLE D., UDD</b>
31	<b>ICSSA-2013</b>	ISBN: 978-81-909376-6-5		Study and Design of Narrowband Phase-shift

				Beamformer <b>KHYATI Z, TWINKLE D.,UDD</b>
	<b>National Conference/Seminar</b>			
1	National Conference on “Baseband systems for wireless applications”	pp-73-78 11-12 Dec. 2005	Thiagrajar college, Madurai jointly with TIFAC core in wireless technologies.	“ISI/ICI/Carrier Frequency offset removal in spectrally efficient OFDM systems by pulse shaping and cyclic prefix”. <b>UDD</b>
2.	22 <sup>nd</sup> National Convention on “Advances in communication Tech Vision-2020” Certificate received Previously this paper was selected at Bannari Amman University in its second National Conference on Signals, Systems and Security NCSSES-2006	pp-68-74 4-5 August, 2006	IEI, Jaipur	“Amplitude limitations in OFDM signals and approaches to eliminate them for final transmission” <b>UDD</b>
3.	22 <sup>nd</sup> National Convention on “Advances in communication Tech Vision-2020”, Certificate received	pp-118-126 4-5 August, 2006	IEI, Jaipur	“Evolution in Broadband systems due to improved OFDM Technologies” <b>UDD</b>
4.	Selected in National conference on Communication, Controls and Bioinformatics NCCCB-06, Engineering College, Kota  The same paper then published in the National conference NCACT’08,	pp-32-37 19-21 March 2008	A. C. College of Engg. & Tech. Karaikudi	“N-point FFT selection criteria and constraints for Discrete OFDM system model” <b>UDD, YPK, KSD</b>
5.	National Conference NCBCS 2006 on Broadband Communication Systems, (Poster presentation)	pp 139-144 Sept. 2006	VIIT, Pune	Windowing technique applied to OFDM for Spectral Efficiency but at the cost of SNR” <b>UDD</b>
6.	National Conference NCSEC08,	pp. 107-112	Engineering	Adaptive

	a	21-22 Feb, 2008	college, Solapur Road, Osmanabad.	Channel Estimation in OFDM Forward Link for Pilot Power Control in Reverse Link over Fast Fading Channel <b>UDD, YPK, KSD</b>
7.	National conference NCACT08, Certificate received	Proceeding not received  15 <sup>th</sup> Feb,2008	E & C V.R Siddhartha Engg. College, Kanuru, Vijaywada, Andhrapradesh	Capacity robustness analysis of data hiding technologies <b>MP, CP, UDD</b>
8.	National conference on Emerging trends in computer technology-ETCT2008  Certificate received	pp-60-64  26-27 June 2008	CSI and SCET Surat	Comparison of Iris recognition algorithms <b>KNJ, UDD</b>
9.	National conference on Current trends in Technology, NUCONE-2008	pp-64-69  27 Nov. 2008	Nirma University of Science and technology, SG Highway A'bad	Low bit rate SPIHT coding for wavelet based image processing <b>MJS, Hiren Mewada, UDD</b>
10.	National conference on Current trends in Technology, NUCONE-2008	pp-319-324  27 Nov. 2008	Nirma University of Science and technology, SG Highway A'bad	Design of forward error correcting turbo code for 3G system under fading <b>Ketki Joshi, UDD</b>
11.	AICTE, DST, CSIR sponsored National Conference, AWTA-08,	pp-123-129  18-19 Dec.2008	ECED, SVNIT	Embedded SNR Scalable Still Image SPIHT coder <b>MJS, UDD</b>
12	AICTE, DST, CSIR sponsored National Conference, AWTA-08, SVNIT	pp-75-81  18-19 Dec. 2008	ECED, SVNIT	Design and Performance Analysis of Turbo Decoding Algorithm in CDMA Communication under AWGN

				and Rayleigh Fading Channel <b>Ketki Joshi, UDD</b>
13	AICTE, DST, CSIR sponsored National Conference, AWTA-08, SVNIT	pp-8-12 18-19 Dec. 2008	ECED, SVNIT	Authentication Based on Iris Recognition in Wireless Networks <b>KNJ, UDD</b>
14	National Conference on Wireless Comm. and Networking WINCON2009	pp-242-252 9-10 Jan 2009	L&T, IEEE Mumbai section and IETE	Adaptive Parameters Based Transmission Control in OFDM System <b>UDD, YPK</b>
15	National conference on Information Management in Knowledge Economy	Proceeding in soft copy form March 2010	University School of Management Studies, GGS Indraprastha University, New Delhi, IETE and CSI Delhi chapters	Application of Electronic Governance and ICTs for Rural and Agriculture Development in India <b>KALPANA C, UDD</b>
16	National Conference on Electronics, Computers and Communication NCECC-2010	Proceeding in soft form, souvenir of abstracts 6-7 March 2010	IETE, Gwalier subcenter and CSI, Gwalier subcenter	WIMAX Physical Layer Threats: Jamming and Scrambling <b>HARDIK, RAKESH JHA, UDD</b>

