

Background by Self:

I served as a Scientist/Engineer with the Indian Space Research Organization (ISRO), Department of Space, Government of India (one of the top premier space research organization of our country - India) for eight years (1992 –2000). During my tenure, I functioned as a project engineer for the Indian National Satellite Project (INSAT) – a prestigious National project of the Government of India, and successfully pioneered the design and development of Ku-Band Communication Payload (for the first time) for the INSAT-2C, INSAT-2D and INSAT-3B Satellites. The Ku-band payloads have flown onboard these (three) satellites. After resigning from ISRO, I joined Teledyne Wireless (MNC) at Mountain View, California (Silicon Valley) as a senior MMIC design engineer, here, I worked towards the design and development and characterization of Power MMIC amplifiers at 5.0 GHz for wireless and military applications. After sufficient technology exposure (2 years), I decided to go back to my country and contribute to the development of higher and technical education in India. Today, I am successfully heading an institute (Charotar Institute of Technology-Changa) involved in imparting quality technical education (from the rural environs of Gujarat) since last eight years. My professional work experience encompass Space Science & Technology, Engineering & Technology Education, Research, Consultancy and Management consolidating to 18 years (as on 2010) of which, 8 years with the Department of Space, Govt. of India, Ahmedabad, Gujarat, 2 years with MNC's in the Silicon Valley, California, USA and 8 years in professional technical education with a private trust in Anand, Gujarat, India. In Sept. 2008, I earned the distinction & credential of Certified Project Management Professional from Stanford University, California, USA.



M.Tech, Ph.D (Telecom. Engg.)

SELECTED WORK

Fundamental Research Work:

Designed, Developed and Demonstrated for the first time the concept of using electrically conducting liquids to realize Electromagnetic Radiators- Antennas, Microwave Circuits and Passive Components

1. *Liquid Antenna Systems, Proceedings of the IEEE on Antennas and Propagation Society International Symposium, 2004. IEEE-Xplore, Publication Date: 20-25 June 2004, Volume: 3, On page(s): 2392- 2395 Vol.3, ISSN: ISBN: 0-7803-8302-8INSPEC*
2. *Strip-slot-Air-Mercury Patch Microwave Antenna, Proceedings of the USAF (United States Air Force and University of Massachusetts) on Antenna Application Symposium, Illinois, USA. Sept. 2000, pp 338-359.*
3. *Realization of Interdigital Filter Using Mercury Resonators, Special Issue, Journal of IETE, Vol. 16, # 2, March-April, 1999, pp. 177-180.*
4. *Tree Antennas, TV & Wireless World, UK , 1985.*
5. *A Liquid Patch Microwave Antenna, Conference Proceedings of NACONECS, IIT-Roorkee, pp 43-47, 1989, Tata MacGraw Hill Publication.*
6. *Realization of a Microwave Interdigital Filter using Electrically Conducting Liquids, Proceedings of the Asia-Pacific Microwave Conference, 2007. APMC 2007 , page(s): 1-4 Location: Bangkok, ISBN: 978-1-4244-0748-4.*

Originated for the first time, the concept of using Green leaves and Live Plants to realise fundamental elements of electric circuit such as Resistor, Inductor and capacitor and utilizing the same to design Amplifiers with Dr. Shiv Prasad Kosta – Ex-Director ISRO, Bangalore.

- (1) “Natural Soil Electronic Active Device Diode”; *International Journal of Electronics, UK, Vol. 93, No. 9, Sept. 2006, pp 589-611. ISSN: 0020-7217*
- (2) *Green Biomass Active Electronic Diode, International Journal of Electronics, UK, Vol. 91, No. 10, Oct. 2006, pp 599-609. ISSN: 0020-7217*
- (3) *Green Biomass Integrated Electronic Circuits, International Journal of Electronics, UK, Vol. 91, No. 10, Oct. 2004, 587-597. ISSN: 0020-7217*
- (4) *Green Biomass Bistable Transistor Multivibrator International Journal of Electronics, UK, 2003, Vol. 90, No. 2, 117-120. ISSN: 0020-7217*

Patents:

Filed on 07/09/2009 with IPR office, The Patents Division, Mumbai – 400 037, as one of the team member.

*Title: Frame Bust problem and Frame bust Protective Algorithm,
Ref. Number: 2248/RQ-MUM/2009, Application no. : 2057/MUM/2009*

Prestigious Career Accomplishments

National Level: Space Applications Centre – ISRO, Gujarat, India

Successfully designed and developed Ku-Band (14/12 GHz) receiver communication payload front-end (for the first time in the country) for INSAT -2C, 2D & 3B Satellites under the prestigious Indian National Satellite System Project of the Department of Space, Government of India (1993-2000). These payloads have successfully flown onboard these satellites and have been operational since then.

International : Teledyne Wireless, California, USA

Successful design and development of 5.0 Ghz MMIC amplifier for Military, LAN & Hyper LAN application

Projects Completed

ISRO, Government of India, Department of Space

1. *Successful design, development, Testing and Integration of Ku-band receivers (Engg. Test Model to Flight Models) for Indian National Satellite Project (INSAT) – 1993-2000*
2. *Design and development and testing of various microwave components and sub-systems for Ku-band receiver.*

MNC: Teledyne Wireless and Araftek, USA

1. *Design and Development of 0.5 micron, 5.0 Ghz, 1.0 Watts MMIC Amplifier using TriQuint Foundry – Texas. From paper design to prototyping and release for manufacturing.*
2. *Design and Development of 5.0 Ghz, 0.5 watts RFIC Power Amplifier using WIN Foundry – Tiwan. Only Engineering Test samples.*

Current & On Going Projects

Private, Self-financed Institution: Charotar Institute of Technology – Changa, India

(1)

Principal Investigator: Dr. Y.P.Kosta (and Team)
Project Title: Design and development of Dual band and tri band Antenna Using Metamaterial for the Next generation Indian Satellites.
Company: Indian Space Research Organization, Dept of Space, Government of India. (RESPOND)
Status: Ongoing
Date of Start: Jan 2010
Project Cost: 6.80 Lacs
Duration of project: 2 years

(2)

Principal Investigator: Dr. Y.P.Kosta (and Team)
Project title: Design and Development of Bus-duct Software
Company: Nimisha International, USA
Date of Start: July 2006
Status: Phase two in progress (phase one completed)
Earnings: Phase one: Rs 2.00 Lakh

(3)

Principal Investigator: Dr. Y.P.Kosta (and Team)
Project Title: Design and development of Next Generation Networks
Company: Elitecore Technologies, USA
Status: Ongoing
Date of Start: July 2006

Career Track (1991 to 2010)

Christian Missionary College - Private

1. *Visiting Faculty, St. Aloysius College, Jabalpur, M.P. , Aug. 1991 – Sept. 1992*

Government of India, Space Commission, Ahmedabad, India

2. *Scientist/Engineer, Space Applications Centre – ISRO, Dept. Of Space, Govt. of India, Nov. 1992 to Dec. 2000.*

Multinational Company in California, USA

1. *Senior MMIC Design Engineer, Teledyne Wireless, Mt. View, California, USA, June. 2001 to Sept. 2002.*
2. *RF Design Engineer, Araftek Inc., Fremont, California, USA, Nov. 2002 to Jan 2003.*

Private Trust: Charotar Motisattavis Patidar Kel;avani Mandal, Anand, Gujarat, India

1. *Principal & Professor, Charotar Institute of Technology, Changa, Gujarat, India, 16th Jan 2003 and continuing.*
2. *Dean, Faculty of Technology and Engineering, Charotar University of Science and Technology, Changa, Anand, Gujarat, India, since 1st Aug. 2009*

Invited Scholarly Talks, Keynote address & Lectures on Professional Platforms, & Institutions & Societies

*Delivered about **hundred** scientific & technical talks in the field of engineering and technology, management and technical education in professional bodies & Institutes in India & abroad;*

- *International & National Conferences (Chaired & keynote speaker)*
- *IEEE (Institution of Electrical & Electronic Engineers – USA)*
- *IETE (Institution of Electronic & Telecommunication Engineers – India)*
- *CSI (Computer Society of India)*
- *AICTE (All India Council for Technical Education)*
- *ISTE (India Society for Technical Education)*
- *NID (National Institute of Design, Ahmedabad)*
- *NIT (National Institute of Technology)*
- *Public & private Universities and company's*
- *Other SFI & Govt. technical and engineering institutions.*

Other Academic Activities

- (1) Research Publications in journals & conferences (75+)*
- (2) Authored technical books and scientific articles*
- (3)** Guided M.E and Ph.D Students (20+)*
- (4)** Guided B.E & M.E major research projects (40+)*
- (5)** Visiting faculty at various public & private Institutions*
- (6)** Design & development of New programs/courses and training - CHARUSAT*
- (7)** Member of BOS and other professional activity bodies constituted for advancement of technology & engineering education in various Institute & universities.*
- (8)** Reviewer; National & International Journals*
- (9)** Recognized Ph.D guide from various universities in Electronics & Telecommunication & Computer engineering*
- (10)** Subject expert & member of selection & promotional committee for Scientists, Asst. Professor, Professor & Principal*

Profile

1. **Name** : KOSTA YOGESHWAR PRASAD
2. **Present Postal Address:** **Charotar Institute of Technology,**
At P.O. Changa, Taluka: Petlad,
Changa- 388 421 District: Anand
Phone / Mobile: 02697-248 220 (O), 9426175033(M)
Website: www.ecchanga.ac.in
3. **Email** : ypkosta@yahoo.com ; ypkosta@ieee.org
4. **Professional Educational Qualifications/Certifications:**
 - **SCPM , Stanford University,**
Palo alto, California, USA, 2008
 - **Ph.D (Electronics & Telecom. Engineering),**
Government Engineering College,
R.D. University, Jabalpur, 1998.
 - **M.Tech (Microwave Electronics),**
University of Delhi, New Delhi, 1991.
5. **Present Employment:** **Principal & Professor (since 2003),**
Charotar Institute of Technology-Changa,
Dist. : Anand, State: Gujarat, India.
Dean,
Faculty of Technology and Engineering,
Charotar University of science and Technology, Changa.
Website: www.charusat.ac.in
6. **Present Basic:** **62460** (PB - IV)
7. **Grade/Nature of Employment:** **37400 –67000** / Permanent and Regular (Private Trust)
8. **Category of Organization** : **Self-Financed UG & PG Engineering**
College Approved by AICTE & affiliated to Gujarat University
**All UG Programs Accredited by National Board of
Accreditation, Ministry of Human Resources, Government
of India, New Delhi**
UG Courses Accredited: BE: EC, CE, IT, EE & ME
9. **Awards & Honours:**
 - **“Bharat Gourav Award”** a National Level Award by Indian Economic Development and Research Association (IEDRA) , New Delhi.
 - **“Indian Achievers Award”** a National Level Award by Indian Achievers Forum (IAF), New Delhi.
 - **“Jewel of India Award”** a National Level Award by Indian Solidarity Council (ISC), New Delhi.
 - **“Lifetime Achievement Gold Medal Award”** a National Level Award by International Institute of Engineering and Management (IIEM), New Delhi.
 - **“Kohinoor of India Award”** a National Level Award by Indian Economic Development and Research Association (IEDRA) , New Delhi.

10. Professional Institutional Memberships:

- Member, IEEE, USA (Since 2000) -
- Member, IETE, India (Since 1995)
- Member, ISTE, India (Since 2003)
- Member, CSI, India (Since 2004)
- Member, Managing Committee, CSI-Vadodara (2007)
- Chairman ISTE Chapter (2006 Onwards)
- Chairman IETE Chapter (2007 onwards)

11. Field of Specialization & Technical Expertise:

- RFIC, MMIC, Microwave circuits,
- Satellite, Wireless and Optical Communications
- Antennas and Electromagnetics

12. Research Publications: You can Google on the web by name: Dr.Y.P. Kosta) ; Refer Annx. 1 attached

- About 75 published research papers in Referred Journals and Conferences (Proceedings) in India and abroad (IJE, IEEE, IETE etc.)

13. Research Guidance: 01 Completed & awarded by SV-NIT – Surat (Feb. 2009) 06 Students have registered for Ph.D, and pursuing.

14. Sponsored Research Project/s: Three (EE, CE/IT, EC)

Current Ongoing Project: **Company:** Space Applications Centre (ISRO), Dept. of Space, Govt. of India.
Date of Sanction: 12 Nov. 2009
Duration : 2 years
Area: Antenna Technologies
Title: *Design and development of a miniaturized compact dual band/tri band antenna using metamaterial*
Cost: ~ 6.00 lacs

15. Recognition/s & Approvals:

- Faculty, United Nations Post Graduate Program on SATCOM (1997-99), Space Applications Centre, ISRO, Dept. of Space, Govt. of India.
- Approved & Recognized Ph.D Guide in Electronics and Telecommunication from S.V. National Institute of Technology-Surat (2005), Ganpat University, Singhania University and Kadi Sarva Vishwavidyalaya.
- Approved & Recognized PG Teacher in EC, Gujarat University (Since 2005).
- Approved Professor of Gujarat University (Since 2000)

16. Technical Documents, Papers, Journal, Articles and Books:

Books / Chapters and Articles

- Book titled “WIMAX, New Developments” © INTEH Publications, Vienna, Austria. 2010, Publication title: WIMAX, New developments, ISBN 978-953-7619-53-4. Editors: Upena D Dalal and Y.P.Kosta

- Book titled “**Frequency Electronics**” for BE (Elect. & Telecom.) / M.Sc (Electronics) (CIT-Changa), 2006, © Nirav Roopal Prakashan, Ahmedabad.
- Co-author of: **Unending search in the endless vast**” (book on space science)
- Contributing author for “**Nanotechnology**” chapter for Std. X std. student of Gujarat State Secondary Board.

Classified Technical Documents/Reports on:

Design and Development of Microwave Amplifiers for Teledyne Wireless and Araftek Inc., California, USA (2001 – 2002)

- Author of: **Critical Design Report** – Design and Development of 5.0 Ghz, 0.5 watts RFIC Power Amplifier, ARAFTEK INC., Fremont, **California, USA**
- Author of **Technical Design Report** – Design and Development of 0.5 micron, 5.0 Ghz, 1.0 Watts MMIC Amplifier for Wireless Applications, Teledyne Wireless, Mt. View, **California, USA**

Classified Technical Documents/Reports on:

Design and Development of Microwave Systems and Circuits for the INSAT Spacecraft Project (1993-2000) at Space Applications Centre-ISRO

- Contributing author: Preliminary Design Review Report and Detail Design Reports for INSAT SPACECRAFT PROJECT-Ku-Receiver (12/14 GHz) SAC-ISRO Project Document, 1996-2000
- Contributing author: Internal Technical report for Ka-Band Receivers (20/30 Ghz) for Space Applications Centre (SAC-ISRO)
- Author: Design & development of LNA Module at Ku-band
- Author: Design & development of IF Power Amplifier Module at Ku-band
- Co-author: Design and Development of PIN diode attenuator
- Co-author: Design and Development of Ku-band Receiver,
- Integration, Assembly, Testing and Space Qualification for Ku-band Receiver for INSAT 2C, D and INSAT 3B satellites.
- Author: Design of MMIC Amplifiers at Ka-Band (20/30 Ghz)

Editor/Reviewer/Moderator

1. **Editorial Board**, International Journal of Computer Application, ISSN 0975-8887
2. **Editor**, Journal of Engineering and Technology, GIT , ISSN -
3. **Editor**, Proceedings of the National Conference on Advances in Electrical machines and Energy system (REMES-2008) in technical sponsorship with IEEE, Gujarat Section, 12-13 Sept. 2008, Published by M&V Dept. of Electrical Engg., CITC
4. **Editor**, Proceedings of the National Women’s Conference on Exploring Potentialities of Women in Engineering, 3 -4 July 2009, Published by Charotar Institute of Technology, Changa.
5. **Reviewer** at various International and National conferences organized by professional societies (IEEE, IETE and CSI).

15. Professional Associations:

- a. **Technical Review Committee Team Member INSAT Satellite Series**, Dept. of Space, Govt. of India (1995-2000).
- b. **Faculty, United Nations PG Program on Satellite Communications** at SAC-ISRO (1998- 1999)
- c. **Company Speaker and Technical Expert** for Teledyne Wireless, California- USA (2001-2002)
- d. **Company Speaker and Technical Expert** for Araftek Inc., California- USA (2002-2003)
- e. **Research Paper Reviewer** in professional bodies and journals.
- f. **Member, State Level Advisory Committee of NAAC Cell** (2005-08), Department of Higher and Technical education, Government of Gujarat, Gujarat State, India.
- g. **Expert Member AICTE** (Central Region), Ministry of Human Resources, Government of India, New Delhi, 2006.
- h. **Subject Expert** for promotional interviews and reviews at **SAC-ISRO**, Ahmedabad and **National Institute of Technology** – Surat and other professional institutions in Engg. & technology.
- i. **Approved Ph.D Guide, Thesis Reviewer & Examiner** with various universities
- j. **Expert Member LIC**, Gujarat University, Ahmedabad & S.P.University, V.V.Nagar.
- k. **Examiner and Paper Setter** with Various Universities (PG and UG in Engineering & Technology) including National Institute of Technology.
- l. **Invited expert** for delivering technology related talks in various professional bodies such as IETE, ISTE, IEEE Chapters, Industrial associations and Engineering Colleges.
- m. **Expert member and University representative** for faculty selection (L, AP, P and Principal) with various universities (Gujarat).
- n. **Member Board of Studies** at various Universities in Communication, IT and Computer Engg. Branches (UG)
- o. **Member Secretary, Board of Management**, CITC and CICA, Changa, Anand
- p. **Chairman, ISTE students Chapter** at CIT-Changa (2006 onwards)
- q. **Chairman, IETE students chapter** at CIT-Changa (2007 onwards)
- r. **Managing Committee Member**, Computer Society of India, Vadodara Chapter, 2007-08.
- s. **Member School Management Board** (Vrajbhoomi International School, Mogar, Anand)
- t. **Member, Governing Body**, Charotar University of Science & Technology, Changa. 2010

16. Academic and Research Activities:

THESIS GUIDED/SUPERVISED

1. **B.E / B.Tech - 13 (as on 2009)**
2. **M.E / M.Tech – 27 (as on 2009)**
3. **Ph.D (01 completed) and (05) under process [data as on 2009]**

Doctoral Students (Ph.D):

Total numbers of students registered and completed/pursuing Ph.D: 01/05

1. Upena Dalal, SVNIT, Surat (EC – July 2006); [**Completed, 28th Nov. 2009**]
2. Ved Vyas Dwedi, Singhania University, Rajasthan (EC- April 2008)[**Submitted May 2010**]
3. Amit Ganatra, Kadi Sarva Vishwavidyalaya, G'nagar (CE- Feb. 2009)
4. C.K.Besandadia, Kadi Sarva Vishwavidyalaya, G'nagar (CE-Feb. 2009)
5. Kirti Bajaj, SVNIT, Surat (EC, Jan. 2009)
6. Ninad Bhatt, North Gujarat University (EC, July 2009)

Annexure – 1

Selected Research Publications of Yogeshwar P Kosta

(As Lead Author or Co-author)

Publication Areas of research work:

Microelectronics, Telecommunications, Computer, Wireless Networks, Management and Engineering education.

Note: Publications not updated; you can Google by the name Dr.Y.P.Kosta for verification of publications, most of them should surface.

Refereed / Peer Reviewed Journals

1. "Analysis and design of a Linearly Tapered slot" **Microwave Journal**, Vol. 51, no. 6, June 2008. Penton Publication, USA
2. "Wet Soil Electronic Device-Transistor and its Application Circuit"; **Journal of Engineering and Applied Sciences**, Vol 3(10):798-802, 2008. ISSN:1816-949X
3. "Reinvestigation of pilot transmission issues for OFDM with an efficient solution" **International Journal of Engineering Research and Industrial Applications**, ISSN 0974-1518, Vol. 1, No. VII (2008), pp 283-298
4. "Natural Soil Electronic Active Device Diode"; **International Journal of Electronics**, UK, Vol. 93, No. 9, Sept. 2006, pp 589-611. ISSN: 0020-7217
5. Green Biomass Active Electronic Diode, **International Journal of Electronics**, UK, Vol. 91, No. 10, Oct. 2006, pp 599-609. ISSN: 0020-7217
6. "Simulation, Design and Development of a wideband printed linearly tapered slot antenna" **ICFAI Journal of Electrical and Electronics Engineering**, Vol. 2, No. 1, pp 29-40, Jan. 2009
7. Green Biomass Integrated Electronic Circuits, **International Journal of Electronics**, UK, Vol. 91, No. 10, Oct. 2004, 587-597. ISSN: 0020-7217
8. Green Biomass Bistable Transistor Multivibrator **International Journal of Electronics**, UK, 2003, Vol. 90, No. 2, 117-120. ISSN: 0020-7217
9. Realization of Interdigital Filter Using Mercury Resonators, **Special Issue, Journal of IETE**, Vol. 16, # 2, March-April, 1999, pp. 177-180.
10. Tree Antennas, **TV & Wireless World**, UK, 1985.
11. "Design and development of patch array antenna" **ADIT Journal of Engineering Vol. 3 pp.50-53 December 2006, ISSN : 0973 3663**
12. " Antenna system with real time frequency variation Bluetooth application" **Journal of Engineering and Technology, Sardar Patel University, Vol.20 December 2007**
13. "A reconfigurable liquid antenna system" **Journal of Engineering and Technology, Sardar Patel University, Vol.20 December 2007**
14. Design of circular loop array for improved gain and beamwidth and a comparative study with linear dipole array at high frequency, **Journal of Engg. & Technology, Vol. 17, pp 56-61, 2004, SPU.**
15. Design and development of a circular patch microstrip antenna with improved gain and bandwidth for wireless applications, **Journal of Engg. & Technology, SPU, Vol. 16, pp 83-85, Sept, 2003.**
16. Analysis and design issues for dual/tri band miniaturized compact patch antenna using Metamaterials, **International Journal of Emerging Technologies and Applications in Engineering, Technology & Sciences**, Vol. 3, Issue 1, Jan. 2010, ISSN:0974-3588.
17. Development of Conical Horn Feed For Reflector Antenna, **International Journal of Engineering and Technology, Vol. 1, No. 1, April 2009, pp. 73-76, ISSN: 1793-8236**
18. Development of Feed for Parabolic Reflector Antenna, **International Journal of Engineering and Technology, Vol. 1, No. 1, April 2009, pp. 91-95, ISSN: 1793-8244 (Online Version); 1793-8236 (Print Version).**

19. *Design and development of low cost RFID antenna, Journal of Theoretical and Applied Information Technology, Vol 7. No. 1. (pp 058 - -62), 2009.*
20. *An adaptive algorithm for web technologies, International Journal of Computer Theory and Engineering. ISSN:1793-8201, 2009*
21. *Metamaterials: The Future of Miniaturized and Compact Antenna Technology for Radio frequency Wireless Communication Systems, The ICFAI University Journal of Electrical and Electronics Engineering, Vol. 3, no. 1, pp 7-15, Jan 2010. ISSN 0974-1704*
22. *Searching Most Efficient Neural Network Architecture Using Akaike's Information Criterion (AIC), International Journal of Computer Applications, Vol. 1, No. 5, 2010; ISBN: 978-9-80746-04-3.*
23. *Beam Squint Analysis of Offset Microstrip Reflectarray and Feed, International Journal of Electrical Engineering, Vol. 2, No. 2, pp 229 – 236; 2010, ISSN: 0975-6450 .*
24. *Numerical Analysis of Negative Refraction and Goos-Hanchen Shift at the Interface of Double Positive Normal Dielectric Medium and Double negative Metamaterial, Journal of Pure and Applied Mathematics Quarterly, April 2010, ISSN: 1558-8599 .*
25. *Past and Present Global Trends for Economic Development and their Implications for an Emerging India DRISHTIKON – A management Journal, Vol-1 Issue-1, pp. 1-7, 2009, Published by Symbiosis Centre for Management and Human Resource Development.*
26. *A Network Based Economy Model Using the Concept of Diversity, Independence & Decentralization (D-I-D), DRISHTIKON – A Management Journal, Published by Symbiosis Centre for Management and Human Resource Development – Under publication (2010)*
27. *Modelling a smooth wall circular waveguide mite bend using waveguide gap theory, International Journal of Advanced Engineering Technology, IJAET, Vol. 1, Issue-1, April – June, 2010, pp 17-26; ISSN: 0976 – 3945.*
28. *Nano Electronic Circuit Component Liquid Memristor, International Journal of Computational Intelligence & Healthcare Informatics, Vol 2, No. 2, July-Dec. 2009, pp. 163 -169; ISSN: 0973-7413*

Selected & IEEE International Conference Proceeding Only

(As Lead Author or Co-author)

(Most of them Available online with IEEE Digital Library and Science Direct online resources)

1. *"Simulation of NLOS WiMAX-IEEE 802.16e physical layer using MIMO Doppler channel model with imposed comb pilots, Proceedings of the International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2009, Archived in IEEE-Xplore, Oct. 2009*
2. *"Miniaturized compact dual band printed radiators using double negative materials for wireless systems" Proceedings of the IEEE International conference " Microwave-2008" , Jaipur, Nov. 21-22, Published Jan 2009, Digital Object Number: 10.1109/AMTA.2008.4763092*
3. *"Realization of a microwave interdigital filter using electrically conducting liquids, Proceedings of IEEE APMC-2007, Bangkok, pp 1-4, ISBN:987-1-4244-0748-4, IEEE Xplore, Published: June 2008.*
4. *"Realization of a microstrip-aperture-coupled-passive-liquid patch antenna" Proceedings of 2008 IEEE International RF and microwave conference, Malaysia, Dec. 2008.*
5. *"Miniaturized compact dual-band printed radiators using double negative metamaterials for RF wireless systems" Proceedings of 2008 IEEE International RF and microwave conference, Malaysia, Dec. 2008.*
6. *Liquid Antenna Systems, 2004 IEEE Proceedings of International Symposium on Antennas & Propagation, USA. ISBN:0-7803-8302-8, Published Sept. 2004*
7. *"Review of antennas designed for infrared detection – a study", Proceedings of the IEEE-MTT International Conference on Microwave Antenna and*

- propagation, MAPE-2005, Beijing, China, Aug. 2005. Published in IEEE Xplore, Sept. 2005.*
8. *“Design and application Issues of Monopole Radiator” Proceedings of the IEEE International Conference on Advances in Electronics and Communication (Ad-El-Co), Feb. 2007, Chennai.*
 9. *Design and Development of a Uniplanar a 3-dB Hybrid Coupler for Microwave Integrated Circuit Applications”, Proceedings of the ICIIS 2008; IEEE Region 10 and the Third international Conference on Industrial and Information Systems, 2008. Publication Date: 8-10 Dec. 2008 Location: Kharagpur, India, ISBN: 978-1-4244-2806-9*
 10. *Liquid Antenna Systems, 2004 IEEE Proceedings of International Symposium on Antennas & Propagation Society , USA*
 11. *Strip-slot-Air-Mercury Patch Microwave Antenna, Proceedings of the USAF on Antenna Application Symposium, Illinois, USA. Sept. 2000, pp 338-359.*
 12. *A Liquid Patch Microwave Antenna, Conference Proceedings of NACONECS, IIT-Roorkee, pp 43-47.1989, Tata Mac Graw Hill Publication.*
 13. *Shunt fed, short axial mode smart helix antenna system for wireless application, ICAT, Space Applications Centre – ISRO, Ahmedabad, 2005*
 14. *“Mercury Patch Microwave Antenna” Proceedings of the International Conference on Smart Materials, Structures and Systems, pp. 701-706, 7-10 July, 1999, Indian Institute of Science, Bangalore, India*
 15. *“Amplitude limitations in OFDM signals and approaches to eliminate them for final transmission”, 22nd Annual Convention and National Conference Proc. on “Advances in communication Tech Vision-2020”, IE(India), Jaipur, pp.68-74, Aug 2006. (p)*
 16. *“Evolution in Broadband systems due to improved OFDM Technologies”, 22nd Annual Convention and National Conference Proc. on “Advances in communication Tech Vision-2020”, IE(India), Jaipur, pp.118-126, Aug 2006.(p).*
 17. *“A Study of Various Issues of Pilot Based Channel Estimation Methods for OFDM System over Time Varying Channel,” Proceedings of International conference TIES2007-Technical Collaborator IEEE, Sathyabama University and Indira Gandhi Atomic Research Center organized, Chennai, Vol. 1 of 4, pp. 6-11, Nov. 2007.(p)*
 18. *“Study of Issues Related to Adaptive Channel Estimation in OFDM System-MWBA Aspects,” Proceedings of IEEE International Conference, WCSN-07, Available on IEEEExplore, IIT Allahabad, pp. 149-154, Dec.2007.*
 19. *“Adaptive Channel Estimation in OFDM Forward Link for Pilot Power Control in Reverse Link over Fast Fading Channel”, National Conference NCSEC08, at Engineering college, Solapur Road, Osmanabad, pp. 107-112, Feb.2008*
 20. *“N-point FFT selection criteria and constraints for Discrete OFDM system model” National conference NCACT’08, at A. C. College of Engg. & Tech. Karaikudi, pp. 32-37, March 2008.*
 21. *“Adaptive Parameters Based Transmission Control in OFDM System”, National Conference WINCON-09, L&T Institute, Mumbai, Sponsored by L&T, IEEE Bombay section and IETE. pp. Jan 2009.*
 22. *“Negative Refractive Index Materials: It’s emergence, principles and applications”, IEEE-MTT-S National conference on Advanced Communication Technologies and Applications, GITS, Udaipur, 13-14th May 2009.*
 23. *“Simulation on error minimization using linear MMSE channel equalization for digital modulation scheme”, Proceedings of the 2009 International conference on Software Technology and Engineering , pp. 287-290, July 24-27, 2009,*

- Chennai, India. ISBN-13-978-981-4289-97-9, World Scientific Publishing, Singapore.
24. "Frame-Burst problem and Burst-Protective Algorithm", *Proceedings of the 2009 International conference on Software Technology and Engineering*, pp. 8-11, July 24-27, 2009, Chennai, India. ISBN-13-978-981-4289-97-9, World Scientific Publishing, Singapore.
 25. "Performance Comparison of non-linear and adaptive equalization algorithms for wireless digital communication" *Proceedings of the first Asian Himalayan international conference, Kathmandu, Nepal. IEEE-Xplore*, ISBN: 978-1-4244-1, pp:1-5, Published: 2009-11-24
 26. "Performance Comparison of the semi-blind channel estimation methods of MIMO communication systems" *Proceedings of the first Asian Himalayan international conference, Kathmandu, Nepal. IEEE-Xplore*, ISBN: 978-1-4244-1, pp 1-5, Published: 2009-11-24
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