

## **Publications**

(Only IEEE Publications are Listed below)

1. Radiation from aperture antennas radiating in the presence of a dielectric sphere, Ravishankar, S. ; Narasimhan, M, IEEE Transactions on Antennas and Propagation, Volume: 30 Issue: 6 Nov 1982 Page(s): 1237- 1240.
2. Near Field to Near Field Transformations - Spherical Modal Approach S.Ravishankar & M.S.Narasimhan. IEEE International Radar Symposium India - 83, Oct 1983.
3. Probe uncompensated near-field to far-field transformation for scanning over an arbitrary surface. Ravishankar, S.; Narasimhan, M. , IEEE Transactions on Antennas and propagation, Volume: 33 Issue: 4 Apr 1985 Page(s): 467-472 .
4. Multiple scattering of EM waves by dielectric spheres located in the near field of a source of radiation. Ravishankar, S.; Narasimhan, M. , IEEE Transactions on Antennas and Propagation, Volume: 35 Issue: 4 Apr 1987 Page(s): 399- 405.
5. EM Scattering by bodies of arbitrary shape and unknown Constitution S.Ravishankar, EMC Test and Design, IEEE EMC/ ESD. April 1993.
6. The Effects of antenna Mounted Bodies on the Radiation from VSAT Earth Station Antennas. S.Ravishankar, The Third IEEE/URSI International Symposium on Antennas and EM Theory, NANJING, PRC. Sept 1993
7. Analysis of shaped beam dielectric lens antennas for mobile broadband applications Ravishankar, S. Antenna Technology: Small Antennas and Novel Metamaterials, 2005. IWAT 2005. IEEE International Workshop on 7-9 March 2005 page(s): 539- 542.
8. Spherical modal analysis of shaped dielectric lens antennas for mobile broadband applications (MBS) Ravishankar, S.; Biswagar, P. Antennas and Propagation Society International Symposium, 2005 IEEE Volume: 2A 3-8 July 2005 Page(s): 454- 457 vol. 2A
9. Analysis of Dielectric Lens - Adaptive Array Antennas for Shaped Beam Applications Ravishankar, S.; Biswagar, Prakash Sarnoff Symposium, 2006 IEEE 27-28 March 2006 Page(s): 1-4
10. Realization of Adaptive Filters for NEXT Crosstalk Mitigation in Two Wire ADSL on DSP Ravishankar, S.; Uma, B.V.; Padmaja, K.V. Computational Intelligence and Multimedia Applications, 2007. International Conference on Volume: 1 13-15 Dec. 2007 Page(s): 567-569
11. Analysis of hemispherical Dielectric lens antennas for wireless applications

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12. Implementation of Novel Bit Loading Algorithm with Power Cut-Back in ADSL Transmitter on DSP. Ravishankar, S.; Padmaja, K.V.; Uma, B.V. Computational Intelligence and Multimedia Applications, 2007. International Conference on Volume: 1, 13-15 Dec. 2007 Page(s): 570-574.
  13. Rate-reach performance improvements in ADSL interference environment using adaptive wavelet threshold Ravishankar, S.; Uma, B.V.; Shreeprasad, M. Wavelet Analysis and Pattern Recognition, 2008. ICWAPR '08. International Conference on Volume: 2, 30-31 Aug. 2008 Page(s): 634-638.
  14. Implementation of dual latency operation in VDSL2 with downstream power back off on DSP chip Ravishankar, S; Padmaja, K.V; Sridhar, Santosh Signals and Electronic Systems, 2008. ICSES '08. International Conference on 14-17 Sept. 2008 Page(s): 427-430.
  15. Application of wavelet for improvement of rate-reach performance in ADSL interference environment Ravishankar, S.; Uma, B. V.; Shreeprasad, M. Communication Technology, 2008. ICCT 2008. 11th IEEE International Conference on 10-12 Nov. 2008 Page(s): 565-568.
  16. The gain enhancement of Microstrip array antenna with dielectric lens -A comparative study, Mahesh, A.; Ravishankar, S.; Rukmini, T.S.; Thakur, S.K.; IEEE Applied Electromagnetics Conference (AEMC), 2009 , Kolkata India Publication Year: Dec 2009, Page(s): 1 – 4.
  17. Modal analysis of Dielectric lens based patch array antenna for vehicular applications , Ravishankar, S.; Mahesh, A.; Thakur, Suresh K; Rukmini, T.S.; Antennas Propagation and EM Theory (ISAPE), 2010, Ninth IEEE International Symposium on Guangzhou, China, Publication Year: Dec 2010, Page(s): 341 – 344.
  18. Spherical Modal Analysis of a Patch Array Dielectric Lens Antenna, Ravishankar, S; Rukmini, T S; Ravishankar, A, R V College of Engineering, INDIA, IEEE, EuCAP 2010 - European Conference on Antennas & propagation, Barcelona, Paper ID - P1841864, Session A25-5.
  19. Analysis of a Patch Array Dielectric Lens Antenna for Mobile applications S.Ravishankar, T.S. Rukmini, A. Mahesh, Arjun Ravishankar, Ajay Krishnan, and G. Kashinath; 2010 IEEE International Symposium on Antennas and Propagation and CNC-USNC/URSI Radio Science, July 2010 Toronto, Canada. Paper ID - P1381.
  20. Performance Analysis for broadband over residential power lines using VDSL2 Profiles. Usha Rani K R, Ravishankar S, IEEE Conf on Signal Processing, Communications and Controls (ICSPCC) 2011, Xian China.
  21. A combined Correlation TDR and FDR procedure for Single Ended Loop Topology Estimation in DSL. M. Bharathi, S. Ravishankar, IEEE Conf on Signal Processing, Communications and Controls (ICSPCC) 2011, Xian

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22. Array Steering Compensation for the presence of Shaped Dielectric Lenses, Shashidhar S, Ravishankar S, IEEE Conf on Signal Processing, Communications and Controls (ICSPCC) 2011, Xian China.
23. M.Bharathi and S. Ravishankar “Single Ended Loop Topology Estimation using FDR and Correlation TDR in a DSL Modem”. IEEE Journal in Selected areas in communications, Sept 2012.
24. Rapid Estimation of True Direction of Arrival for Dielectric lens based Adaptive Array Antennas Ravishankar S and Dharshak B.S IEEE Conf on Signal Processing, Communications and Controls (ICSPCC) 2012, HongKong.
25. Ravishankar S and Dharshak B.S , “A Fast Direction of Arrival Estimation procedure for Adaptive Array Antennas covered by a Shaped Dielectric Lens” , IEEE Radio Wireless Symposium, Jan 2013, Austin, Texas USA.
26. Ravishankar, S. ; Biswagar, Prakash ; Ganapathy, Thimmaiah Kuppanda, “Analysis of a Patch Array Dielectric Lens Antenna for Mobile Applications” Proceedings of 2013 IEEE European Conference on Smart Objects, Systems and Technologies (SmartSysTech),11-12 June 2013, Erlangen/Nuremberg, Germany, ISBN 978-3-8007-3521-1.
27. Ravishankar S and Dharshak B S, ‘A Rapid Direction of Arrival Estimation procedure for Adaptive Array Antennas covered by a Shaped Dielectric Lens’ , IEEE MTT, Radio Wireless Symposium, Jan 2014, Newport Beach, CA USA.
28. Saraswathi K, Niraj B Gadakari, Abitha B and S.Ravishankar, ‘Rate Reach Profile and Tone Loading Algorithms for Underwater Acoustic Communication’, Sept 2014, WOCN2014, .
29. K. Saraswathi and S.Ravishankar, ‘Discrete Multi-Tone Loading Algorithms for Underwater Acoustic Communication’, International Conference on Advances in Computing, Communications and Informatics (ICACCI-2014), IEEE Comsoc, Delhi, 24 – 27 Sept2014.
30. Ravishankar S, Shushrutha K S, ‘Estimation of Actual Direction of Arrival for Ellipsoidal Dielectric Lens Array Antenna’ IEEE MTT-S International Microwave and RF Conference (IMaRC) IMARC2014, Bangalore India, 15-17 Dec 2014.
31. Ravishankar S, Shushrutha K S, ‘Analysis of Spheroidal Dielectric Lens-Array Antenna’, IEEE, Asia Pacific Conference on Antennas and Propagation, June 30 – July 3, 2015, Bali Island, Indonesia.
32. Ravishankar S and Mahesh Appajappa, ‘A Hybrid Method of Analysis of Shaped Dielectric Lens Antennas’, IEEE APS/URSI Annual Symposium, July 19-25, Vancouver, BC, Canada.
33. Ravishankar S, Arjun R, ‘A Two Step Hybrid Method for Loop Topology Estimation of Two Wire and Power Lines’, IEEE Comsoc – CoCoNET, 16-

19 Dec 2015, Trivandrum pp 332-338.

34. Ravishankar S, Arjun R, 'A Hybrid Method for Physical and Power Line Loop Topology Estimation using a Broadband Modem', IEEE MTT\_RWW 2016, 24-27 Jan 2016, Austin Texas USA.