

LIST OF PUBLICATIONS

NAME: Dr. M. GULAM NABI ALSATH

DESIGNATION: ASSOCIATE PROFESSOR

DEPARTMENT: DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

COLLEGE NAME: SSN COLLEGE OF ENGINEERING

1. P. Devisowjanya; B. Pranamika; **Alsath, M.G.N**; Kirubaveni S; V. Nilavathani; S. Udayaezhil; "Reconfigurable Bow-Tie Based Filtering Antenna for Cognitive Radio Applications," *International Journal of RF and Microwave Computer-Aided Engineering*, Feb. 2020.
2. Ashvanth, B; Partibane, B; **Alsath, M.G.N**; Rajakani, K.; "Gain Enhanced Multi-pattern Reconfigurable Antenna for Vehicular Communications," *International Journal of RF and Microwave Computer-Aided Engineering*, Feb. 2020.
3. Ashvanth, B; Partibane, B; **Alsath, M.G.N**; Rajakani, K.; "Design of a 16- Beam Pattern Reconfigurable Antenna for Vehicular Environment," *International Journal of RF and Microwave Computer-Aided Engineering*, Jan. 2020.
4. Sangeetha S; K Malathi; **Alsath, M.G.N**; Sandeep KP; Rama Rao, T.; S. Kingsly; Selvam, Y.P.; "Integrated 4G/5G Multiservice MIMO Antenna for Hand-Held Devices," *Springer's Wireless Personal Communications*, Nov. 2019.
5. Nithyanandham, G.; Kumar, KJJ; **Alsath, M.G.N**; Vidhyashree, S.; "Design of a Dual-Band Circular Implantable Antenna for Biomedical Applications," *IEEE Antennas and Wireless Propagation Letters*, vol. 19, no. 1, pp. 119-123, Jan. 2020.
6. Padmathilagam, S; Malathi, K; Shini, S; Rajesh, N; **Alsath, M.G.N**; Shanmathi, S; Sindhadevi, M; Sandeep, KP; "Compact Monopole Antenna Backed with Fork Slotted EBG for Wearable Applications," *IEEE Antennas and Wireless Propagation Letters*, 2019.
7. Aruna, V.; **Alsath, M.G.N**; Kirubaveni, S; Maheswari, M.; "Flexible and Beam Steerable Planar UWB Quasi-Yagi antenna for WBAN," *IETE Journal of Research*, Nov. 2019.
8. Rajesh, N.; **Alsath, M.G.N**; Malathi, K.; Sridhar, B.; Shanmugapriya, M.; "Integrated Vivaldi Antenna for UWB/Diversity Applications in Vehicular Environment,"

International Journal of RF and Microwave Computer-Aided Engineering, vol. 30, no. 1, e21989, Sep. 2019.

9. Sangeetha S; K Malathi; **Alsath, M.G.N**; Sandeep KP; S. Kingsly; K Indhumathi; AK Shrivastav; N Rajesh; Shanmugapriya M; "A Compact Frequency Reconfigurable Antenna with Independent Tuning for Hand-held Wireless Devices," *IEEE Transactions on Antennas and Propagation*, vol. 68, no. 2, pp. 1151-1154, Feb. 2020.
10. Ashvanth, B; Partibane, B; Alsath, M.G.N.; Rajakani, K.; "Tunable Dual Band Antenna with Multi-Pattern Reconfiguration for Vehicular Applications," *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 29, no. 12, e21973, Sep. 2019.
11. Padmathilagam S; Sangeetha S; K. Malathi, **Alsath, M.G.N**; Deepa T; N Rajesh; P Sandeep Kumar; T. Rama Rao; "Integration of Slot Array with MIMO Antenna for 4G and 5G Applications," *Springer's Wireless Personal Communications*, Aug. 2019.
12. **Alsath, M.G.N.**, Kirubaveni S, Velkani E, Rapuru S, Yarasi T, Dommalapatti N, "A Compact Tri-Band Microwave Resonator for Ethanol Gas Detection," *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 29, no. 10, e21895, Oct. 2019.
13. S. Kingsly; T. Deepa; K. Malathi; **Alsath, M.G.N**; Sandeep KP; T Rama Rao; Sangeetha S; Yogeshwari PS; Padmathilagam S, Geetha G, "Tunable Band Notched High Selective UWB Filtering Monopole Antenna," *IEEE Transactions on Antennas and Propagation*, vol. 67, no. 8, pp.5658 - 5661, Aug. 2019.
14. V. Lingasamy; **Alsath, M.G.N**; K. T. Selvan, "Design and Evaluation of a Wideband Reflectarray Antenna Using Cross Dipole with Double-Ring Elements," *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 29, no. 9, e21865, Sep. 2019.
15. P. Devisowjanya; **Alsath, M.G.N**; Kirubaveni S; R. Govindarajan; N. Santhosh; "Design and Experimental Evaluation of a Proximity Coupled Transparent Patch Antenna for WLAN," *IETE Journal of Research*, Feb. 2019.
16. Deepa, T.; Saffrine, K.; Kanagasabai, Malathi; **Alsath, MGN.**; S. Padmathilagam; Sridhar, B.;Sandeep Kumar, P.;Rama Rao, T.; "Bandwidth Reconfigurable Filtering Antenna," *Springer's Wireless Personal Communications*, Jan. 2019.
17. V. Lingasamy; **Alsath, M.G.N**; K. T. Selvan, Rajeev Jyoti, "A wideband, single layer reflectarray antenna with cross loop and square ring slot loaded patch elements,"

International Journal of Microwave and Wireless Technologies, vol. 11, no. 7, pp. 703-710, Sep. 2019.

18. S. Subbaraj; Sambandam, P.; Kanagasabai, Malathi; **Alsath, M.G.N.**; Indhumathi, K.; S. Kingsly; Y. Panneer Selvam.; Deepa, T.; "Performance Enhancement and Signal Integrity Analysis of Multiband MIMO Antenna for Handheld Electronic Devices," *IET Microwaves, Antennas & Propagation*, vol. 13, no.5, pp.631-641, Apr. 2019.
19. A. Henridass, **Alsath, M.G.N.**; " Octagonal DGS based Dual Polarized Ring-Shaped Antenna for MIMO Communications," *International Journal of Electronics*, vol. 106, no.5, pp.756-769, 2019.
20. Kirubaveni S, Radha S, **Alsath, M.G.N**; Ani Melfa Roji M; "Design and Analysis of Wideband Cropped Trapezoidal Cantilever with Enhanced Power Conversion Efficiency," *Journal of Active and Passive Electronic Devices*, vol. 14, no. 2-3, pp. 145 – 156, 2019.
21. Sandeep KP; **Alsath, M.G.N**; K Malathi; Geetha G; K Indhumathi; AK Shrivastav; "Super Wideband (SWB) Fractal Based Flexible Monopole Antenna for Ultra-Wideband (UWB) Applications," *Journal of Active and Passive Electronic Devices*, vol. 14, no. 1, pp. 55 – 70, 2019.
22. S. Kingsly; K. Malathi; **Alsath, M.G.N**; A. K. Shrivastav; S. Subbaraj; Y. P. Selvam; S. Ramprabhu; YVR Rao; "Compact Frequency and Bandwidth Tunable Bandpass-Bandstop Microstrip Filter," *IEEE Microwave and Wireless Component Letters*, vol. 28, no.9, pp.786-788, Sep. 2018.
23. S. Kingsly; T. Deepa; Kanagasabai, Malathi; **Alsath, M.G.N**; S. Palaniaswamy; T. Rama Rao; Y. P. Selvam; S. Subbaraj; S. Padma; "Multiband Reconfigurable Filtering Monopole Antenna for Cognitive Radio Applications," *IEEE Antennas and Wireless Propagation Letters*, vol. 18, no.1, pp. 1416-1420, 2018.
24. A. Henridass, **Alsath, M.G.N.**; "CPW fed Circularly Polarized Wideband Pie shaped Monopole Antenna for Multi-Antenna Techniques," *COMPEL - International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 37, no.6, 2109-2121, 2018.
25. S. Kingsly, K. Malathi, **Alsath, M.G.N**, Y. P. Selvam, S. Subbaraj, N. Rajesh, "Multi-band Reconfigurable Microwave Filter using Dual Concentric Resonators," *International Journal of RF and Microwave Computer Aided Engineering*, vol. 28, no.6, 2018.

26. **Alsath, M.G.N.**, A. Henridass, Y.P. Selvam, K. Malathi, S. Sangeetha, K. Saffrine, S. Ramprabhu, S. K. Palaniswamy, N. Rajesh, "An Integrated Tri-band/UWB Polarization Diversity Antenna for Vehicular Networks," *IEEE Transactions on Vehicular Technology*, vol. 67, no.7, pp. 5613 – 5620, Jul. 2018
27. Y. P. Selvam, **Alsath, M.G.N.**, K. Malathi, L. Elumalai, S. K. Palaniswamy, S. Subbaraj, S. Kingsly, G. Konganathan, I. Kulandhaisamy, "A Patch-Slot Antenna Array with Compound Reconfiguration," *IEEE Antennas and Wireless Propagation Letters*, vol. 17, no. 3, pp. 525 – 528, 2018
28. S. Subbaraj, K. Malathi, **Alsath, M.G.N.**, Y. P. Selvam, S. Kingsly, "Compact Multiservice Monopole Antenna for Tablet Devices," *International Journal of Electronics*, Taylor & Francis, vol. 105, no.8, pp. 1374 – 1387, 2018
29. S. Subbaraj; K. Malathi; **Alsath, M.G.N.**; Y. Panneer Selvam.; S. Kingsly; Y.V.Ramana Rao; "Miniaturized Quad-Band Coplanar-Fed Monopole Antenna for Tablet Computers," *COMPEL - International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 37, no.3, pp.1118-1130, 2018
30. Kirubaveni Savarimuthu, Radha Sankararajan, **Alsath, M.G.N.**, Ani Melfa Roji M., "Design and analysis of cantilever based piezoelectric vibration energy harvester", *Circuit World*, vol. 44, no. 2, pp.78-86, 2018.
31. Y. Panneer Selvam., K. Malathi, **Alsath, M.G.N.**, S. Velan, S. Kingsly, S. Subbaraj, Raju, S., Abhaikumar, V., Meenakshisundaram, K; "A Low Profile Frequency and Pattern Reconfigurable Antenna," *IEEE Antennas and Wireless Propagation Letters*, vol. 16, pp. 3047 - 3050, 2017.
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33. Partibane B, **M. G. N. Alsath**, Kalidoss R, "Design of a bandwidth enhanced hybrid slot loop antenna for GSM/UWB standards," *Circuit World*, vol. 43, no. 3, pp.105-110, 2017.
34. R. Sivasamy; B. Moorthy; M. Kanagasabai; V. R. Samsingh; **M. G. N. Alsath**, "A Wideband Frequency Tunable FSS for Electromagnetic Shielding Applications," *IEEE Transactions on Electromagnetic Compatibility*, vol.60 (1), pp.280-283, 2017.
35. Y. Panneer Selvam., Elumalai, L., **Alsath, M.G.N.**, K. Malathi, S. Kingsly, S. Subbaraj, "Novel Frequency and Pattern Reconfigurable Rhombic Patch Antenna with

- Switchable Polarization," *IEEE Antennas and Wireless Propagation Letters*, vol.16, pp.1639-1642, 2017
36. Rajesh, N., Kanagasabai, M., Raju, S., Abhaikumar, V., Deepak Ramprasad, **Alsath, M. G. N.**, "Design of Vivaldi Antenna with Wideband Radar Cross Section Reduction," *IEEE Transactions on Antennas and Propagation*, vol. 65, no. 4, pp. 2102 – 2105, 2017
 37. Ramprabhu, S.; Sridhar, B.; K. Malathi; **Alsath, MGN**;S. Baisakhiya "Miniaturized band stop FSS using convoluted swastika structure" *Frequenz Journal*, vol. 71(1-2), pp. 51-56, 2016
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 40. **Alsath, M.G.N.**; K. Malathi;"Ultra-Wideband Grid Array Antenna for Automotive Radar Sensors", *IET Microwaves, Antennas & Propagation* , vol. 10, no. 15, pp. 1613 - 1617, 2016
 41. Pakkathillam, J.K.; K. Malathi; **Alsath, M.G.N.**; "A Compact Multiservice UHF RFID Reader Antenna for Near field and Farfield Operations," *IEEE Antennas and Wireless Propagation Letters* vol.16, pp.149 - 152, 2017.
 42. Sangeetha, V.,Saffrine, Kiingsley; K. Malathi;**Alsath, M.G.N.**; Yogeshwari, P; Sangeetha, S; "Quad-Band Rat-Race Coupler with Suppression of Spurious Pass-Bands", *IEEE Microwave and Wireless Components Letters*, vol. 26, no. 7, pp. 490-492, July 2016.
 43. Natarajan, R.; George, J.; K. Malathi; Lawrance, L., Rajendran, D., Moorthy, B., **Alsath, MGN**, "Modified Antipodal Vivaldi Antenna for UWB Communications," *IET Microwaves, Antennas & Propagation*, vol. 10, no. 4, pp. 401-405,2016
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 45. **Alsath, MGN**, Kanagasabai, M., "Compact UWB Monopole Antenna for Automotive Communications", *IEEE Transactions on Antennas and Propagation*, vol. 63, no. 9, pp. 4204 – 4208, 2015.

46. Sandeep Kumar, P.; K. Malathi; Arunkumar, S., **Alsath, MGN**, Velan, S.; Pakkathillam, J.K.; "Super Wideband Printed Monopole Antenna for Ultra-Wideband Applications," *International Journal of Microwave and Wireless Technologies*, vol. 9, no. 1, pp. 133-141, 2017.
47. Indhumathi, K., K. Malathi; Shrivastav, AK; Indiragandhi, S & **Alsath, MGN**, "A Planar Microwave Phase Shifter using Microstrip-CPW-Microstrip Transition with Defected Ground Structures," *International Journal of Microwave and Wireless Technologies*, vol. 9, no. 1, pp. 71-77, 2017
48. Arun, H.; Sarma, A.K.; K. Malathi; Velan, S.; Raviteja, C.; **Alsath, MGN**, "A Polarization diverse MIMO antenna with Enhanced isolation," *IET Microwaves, Antennas & Propagation*, vol. 9, no. 12, pp. 1267 – 1273, 2015
49. **Alsath, MGN**, Lawrance, L., K. Malathi, Rajendran, D., Moorthy, B., George, J., "Quad-Band Diversity Antenna for Automotive Environment," *IEEE Antennas and Wireless Propagation Letters*, vol. 14, pp. 875 – 878, 2015