
AUTHOR'S RELEVANT PUBLICATIONS

Journals:

- [1] V. S. Gangwar, A. K. Singh and S. P. Singh, "An effective approach for the synthesis of unequally spaced antenna array by estimating optimum elements density on the aperture," *IEEE Antennas and Wireless Propagation Letters*, Vol. 16, pp. 2278 - 2282, 2017.

- [2] V. S. Gangwar, R. K. Samminga, A. K. Singh, M. Jijenth, K. K. Suman and S. P. Singh "A novel strategy for the synthesis of thinned planar antenna array which furnishes lowest possible peak side lobe level without appearance of grating lobes over wide steering angles," *Journal of Electromagnetic Waves and Applications*, Vol. 32, No.7, pp. 842-857, 2017.

Conferences/Workshops/ Symposium:

- [1] V. S. Gangwar, A. K. Singh and S. P. Singh, "Investigation on sparse array concept for active array radars," In Proc. *IEEE Indian Antenna Week (IAW-2014)*, 26 - 30 May, 2014, India.

- [2] V. S. Gangwar, A. K. Singh, Elvy Thomas and S. P. Singh, "Side lobe level suppression in a thinned linear antenna array using particle swarm optimization," In Proc. *IEEE International Conf. on Applied and Theoretical Computing and Communication Technology (iCATccT-2015)*, pp. 787-790, 29-31 Oct, 2015, India.

- [3] V. S. Gangwar, A. K. Singh and S. P. Singh, "Side lobe level suppression in randomly spaced linear array using genetic algorithm," In Proc. *IEEE International Microwave and RF Conf. (IMaRC-2015)*, pp. 381-384, 10-12 Dec, 2015, India.

- [4] **V. S. Gangwar**, A. K. Singh, Hemant Patidar and S. P. Singh, "Optimistic design of thinned planar antenna array for radar operating scenarios," In Proc. *IEEE International Conf. on Microelectronics, Computing and Communication (MicroCom-2016)*, pp. 1-4, 23 -25 Jan. 2016, India.
- [5] **V. S. Gangwar**, A. K. Singh and S. P. Singh, "Synthesis of spatially weighted sparse planar antenna arrays using genetic algorithm," In Proc. *IEEE International Advance Computing Conf. (IACC-2016)*, 27-28 Feb, 2016, India. [Accepted for Presentation]
- [6] **V. S. Gangwar**, A. K. Singh, Bhargav M. and S. P. Singh, "Synthesis of a thinned linear array with optimum radiation characteristics using genetic algorithm," In Proc. *IEEE MTT-S International Wireless Symposium (IWS-2016)*, 14- 16 March, 2016, Shanghai, China. [Accepted for presentation]
- [7] **V. S. Gangwar**, A. K. Singh, and S. P. Singh, "Synthesis of sparse antenna arrays with concurrently weighted inter-element spacings and amplitude excitation coefficients," In Proc. *2017 IEEE International Symposium on Antennas and Propagation and USNC- URSI Radio Science Meeting (2017 IEEE AP-S/URSI)*, 9-14 July, 2017, San Diego, California, USA. [Accepted for presentation]
- [8] Ashwin P., Allen V. Miranda, Preeta Sharan, **V. S. Gangwar**, A. K. Singh, and S. P. Singh, "Improvement in the Design of Randomly Spaced Linear Antenna Arrays in terms of Peak Side Lobe Level," In Proc. *IEEE International Conference on Antenna Innovations and Modern Technologies (iAIM-2017)*, 24-26 Nov, 2017, India
- [9] Jijenth M., K. K. Suman, **V. S. Gangwar**, A. K. Singh, and S. P. Singh, "A Novel Technique based on Modified Genetic Algorithm for the Synthesis of Thinned Planar Antenna Array with Low Peak Side Lobe Level over Desired Scan Volume," In Proc. *IEEE International Microwave and RF Conf. (IMaRC-2017)*, 11-13 Dec, 2017, Ahmadabad, India.

- [10] Ashwin P., Allen V. Miranda, Preeta Sharan , **V. S. Gangwar**, A. K. Singh, and S. P. Singh, "An Efficient Synthesis of Unequally Spaced Antenna Array with Electronic Scan Capability Utilizing Particle Swarm Optimization," In Proc. *IEEE International Microwave and RF Conf. (IMaRC-2017)*, 11-13 Dec, 2017, Ahmedabad, India.