<u>These publications are authored by the</u> Center for Advanced Communications research personnel.

Journal Articles - 2017

- B. Jokanovic and M. Amin, "Suitability of aata representation domains in expressing human motion radar signals," <u>IEEE GeoScience Remote Sensing Letters</u>, vol. 14, no. 12, pp. 2370-2374, November 2017.
- [2] X. Wang, M. G. Amin, and X. Cao, "Sparse array quiescent beamformer design combining adaptive and deterministic constraints," <u>IEEE Transactions on Antennas and Propagation</u>, vol. 65, no. 11, pp. 5808-5818, September 2017.
- [3] M. G. Amin, D. Borio, Y. Zhang, L. Galleani, "Time-Frequency analysis for GNSS: from interference mitigation to system monitoring," <u>IEEE Signal Processing Magazine</u>, vol. 34, no. 5, pp 85-95, September 2017.
- [4] D. Comite, F. Ahmad, T. Dogaru, D. Liao, and M.G. Amin, "Multi-look imaging for low-signature target detection in rough-surface clutter environment," <u>IEEE Transactions on Geoscience and Remote Sensing</u>, vol. 55, no. 9, pp. 5220-5229, 2017.
- [5] B. Chalise, M. G. Amin, and B. Himed, "Performance tradeoff in a unified passive radar and communications system," <u>IEEE Signal Processing Letters</u>, vol. 24, no. 11, pp. 1275-1279, June 2017.
- [6] M. Hajebi; A. Hoorfar; E. Bou-Daher; A. Tavakoli, "Inverse Profiling of Inhomogeneous Subsurface Targets With Arbitrary Cross Sections Using Covariance Matrix Adaptation Evolution Strategy", <u>IEEE Geoscience and Remote Sensing Letters</u>, pp. 612–616, May 2017.
- [7] R. Wynne; F. Brown, "Temperature Dependent Birefringence in Microstructured Optical Fiber," in <u>Journal of Lightwave Technology</u>, vol. PP, no.99, pp.1-1 doi: 10.1109/JLT.2017.2686392
- [8] E. Aboutanios, A. Hassanien, M.G. Amin, and A.M. Zoubir, "Fast Iterative Interpolated Beamforming for Accurate Single Snapshot DOA Estimation," <u>IEEE Geoscience and Remote Sensing Letters</u> vol. 14, no. 4, pp. 574-578, April 2017.
- [9] S. Qin, Y. D. Zhang, M. G. Amin, and F. Gini, "Frequency diverse coprime arrays with coprime frequency offsets for multi-target localization," <u>IEEE Journal of Selected Topics in Signal Processing</u>, Special Issue on Advances in Time/Frequency Modulated Array Signal Processing, vol. 11, no. 2, pp. 321-335 March 2017.
- [10] Y. D. Zhang, M. G. Amin, and B. Himed, "Structure-aware sparse reconstruction and applications to passive multi-static radar," <u>IEEE Aerospace and Electronic Systems Magazine</u>, special issue on Passive and Multi-Static Radar for Civilian Applications vol. 32, no. 2, pp. 68-78, February 2017.
- [11] Q. Shen, W. Liu, W. Cui, S. Wu, Y. D. Zhang, and M. G. Amin, "Focused compressive sensing for underdetermined wideband DOA estimation exploiting high-order difference co-arrays," IEEE Signal Processing Letters, vol. 24, no. 1, pp. 86-90, January 2017.
- [12] Q. Shen, W. Liu, W. Cui, S. Wu, Y. D. Zhang, and M. G. Amin, "Underdetermined Wideband DOA Estimation of Off-Grid Sources Employing the Difference Co-Array Concept," <u>IEEE Signal Processing Letters</u>, vol. 130, pp. 299-304, January 2017.
- [13] S. Qin, Y. D. Zhang, M. G. Amin, and A. Zoubir, "Generalized coprime sampling of Toeplitz matrix," <u>IEEE Transactions on Signal Processing</u>, vol.65, no. 1, pp.81-94, January 2017.
- [14] S. Qin, Y. D. Zhang, M. G. Amin, and B. Himed, "DOA estimation exploiting a uniform linear array with multiple coprime frequencies," <u>Signal Processing</u>, vol. 130, pp. 37-46, January 2017.

[15] X. Wang, M. G. Amin, and X. Cao, "Analysis and design of optimum sparse array configurations for adaptive beamforming," <u>IEEE Transactions on Signal Processing</u>, vol. 62, no. 2, pp. 340-351, January 2017.