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

## Journal Articles - 2012

- [1] Y. D. Zhang and M. G. Amin, "Anti-Jamming GPS receiver with reduced phase distortions," <u>IEEE Signal Processing Letters</u>, vol. 19, no. 10, pp. 635-638, October 2012.
- [2] F. Ahmad and M. G. Amin, "Compressive urban sensing," <u>SPIE Newsroom</u>, doi: 10.1117/2.1201209.004413, Published Online: 27 September 2012. Available: http://spie.org/x90448.xml
- [3] J. Wu, Y. D. Zhang, M. G. Amin and M. Uysal, "Multiple-relay selection in amplify-and-forward cooperative wireless networks with multiple-source nodes," <u>EURASIP Journal on Wireless Communications and Networking</u>, vol. 2012, no. 2012:256, doi:10.1186/1687-1499-2012-256, August 2012.
- [4] B. K. Chalise, Y. D. Zhang and M. G. Amin, "Precoder Design for OSTBC Based AF MIMO Relay System With Channel Uncertainty," <u>IEEE Signal Processing Letters</u>, vol. 19, no. 8, pp. 515-518, August 2012.
- [5] Y. D. Zhang, M. G. Amin, and B. Himed, "Joint DOD/DOA estimation in MIMO radar exploiting time-frequency representations," <u>EURASIP Journal on Advances in Signal Processing</u>, Special issue on Advanced in Time-Frequency and Array Processing of Nonstationary Signals. vol. 2012, no.1, July 2012.
- [6] P. Setlur, G. E. Smith, F. Ahmad, and M. G. Amin, "Target localization with a single sensor via multipath exploitation," <u>IEEE Transactions Aerospace and Electronic Systems</u>, vol. 48, no. 3, pp. 1996-2014, July 2012.
- [7] G. Wang and M. G. Amin, "Space-time block code designs based on quadratic field extension for two transmitter antennas," <u>IEEE Transactions on Information Theory</u>, vol. 58, no. 6, June 2012.
- [8] B. K. Chalise, L. Vandendorpe, Y. D. Zhang, and M. G. Amin, "Local CSI based selection beamforming for amplify-and-forward MIMO relay networks," <u>IEEE Transactions on Signal Processing</u>, vol. 60, no. 5, May 2012.
- [9] C. Debes, A. M. Zoubir and M. G. Amin, "Enhanced detection using target polarization signatures in throughthe-wall radar imaging," <u>IEEE Transactions on Geoscience and Remote Sensing</u>, vol. 50, no. 5, May 2012.
- [10] R. Demirli, M. G. Amin, X. Shen, and Y. D. Zhang, "Ultrasonic flaw detection and imaging through reverberant layer via subspace analysis and projection," <u>Advances in Acoustics and Vibration, special issue</u> on <u>Advances in Acoustic Sensing, Imaging and Signal Processing</u>, vol. 2012, doi:10.1155/2012/957379, May 2012.
- [11] B. K. Chalise, Y. D. Zhang and M. G. Amin, "Local CSI based selection beamforming for AF MIMO relay system with direct link," <u>IEEE Communications Letter</u>, vol. 16, no. 5, pp. 622-625, May 2012.
- [12] F. Ahmad and M. G. Amin, "Stochastic model based radar waveform design for weapon detection," <u>IEEE Transactions on Aerospace and Electronic Systems</u>, vol. 48, no. 2, pp. 1815-1826, April 2012.
- [13] Y. D. Zhang, X. Shen, R. Demirli and M. G. Amin, "Ultrasonic flaw imaging via multipath exploitation," <u>Advances in Acoustics and Vibration, special issue on Advances in Acoustic Sensing, Imaging and Signal Processing</u>, vol. 2012, doi:10.1155/2012/874081, April 2012.
- [14] W. Zhang, M. G. Amin, F. Ahmad, A. Hoorfar, and G. E. Smith, "Ultra-wideband impulse radar through-the-wall imaging with compressive sensing," <u>International Journal of Antennas and Propagation</u>, vol. 2012, 11 pages, doi:10.1155/2012/251497, February 2012.