These publications are authored by the
Center for Advanced Communications research personnel.

Journal Articles - 2013

[1] C. H. Seng, A. Bouzerdoum, M. G. Amin, and S. L. Phung, "Probabilistic fuzzy image fusion approach for radar through wall sensing," IEEE Transactions on Image Processing, vol. 22, no. 12, December 2013.

[2] S. Ghofrani, M. G. Amin, and Yimin Zhang, "High-resolution direction finding of non-stationary signals using matching pursuit," Signal Processing, special issue on Advances in Sensor Array Processing, vol. 93, no. 12, December 2013.

[3] I. Orovic, S. Stankovic, and M. G. Amin, "L-statistics based Modification of Reconstruction Algorithms for Compressive Sensing in the Presence of Impulse Noise," Signal Processing, vol. 93, no. 11, November 2013.

[4] A. Belouchrani, M. G. Amin, N. Thirion-Moreau, and Y. Zhang, "Source separation and localization using time-frequency distributions," IEEE Signal Processing Magazine, Issue 6, November 2013.

[5] B. Chalise, Y. D. Zhang, and M. G. Amin, "Local CSI based full diversity achieving relay selection for amplify-and-forward cooperative systems," IEEE Transactions on Signal Processing, vol. 61, no. 21, November 2013.

[6] B. Chalise, W.-K. Ma, Y. D. Zhang, H. Suraweera, and M. G. Amin, "Optimum performance boundaries of OSTBC based AF-MIMO relay system with energy harvesting receiver," IEEE Transactions on Signal Processing, vol. 61, no.17, September 2013.

[7] L. Stankovic, S. Stankovic, I. Orovic, and M. G. Amin, "Compressive Sensing Based Separation of Non-Stationary and Stationary Signals Overlapping in Time-Frequency," IEEE Transactions on Signal Processing, vol. 61, no. 18, September 2013.

[8] C. H. Seng, A. Bouzerdoum, M. G. Amin, and S. L. Phung, "Two-stage fuzzy fusion with applications to through-the-wall radar imaging," IEEE Geoscience and Remote Sensing Letters, vol. 10, no. 4, July 2013.

[9] C. H. Seng, M. G. Amin, F. Ahmad, and A. Bouzerdoum, "Image segmentations for through-the-wall radar target detection," IEEE Transactions on Aerospace and Electronic Systems, vol. 49, no. 3, July 2013.

[10] M. G. Amin and F. Ahmad, "Change Detection Analysis of Humans Moving Behind Walls," IEEE Transactions on Aerospace and Electronic Systems, vol. 49, no. 3, July 2013.

[11] M. G. Amin and F. Ahmad, "Compressive Sensing for Through-the-Wall Radar Imaging," Journal of Electronic Imaging, vol. 22, no. 3, July 2013.

[12] Y. D. Zhang, J. J. Zhang, M. G. Amin, and B. Himed, "Instantaneous altitude estimation of maneuvering targets in over-the-horizon radar exploiting multipath Doppler signatures," EURASIP Journal on Advances in Signal Processing, special issue on Emerging Radar Techniques, doi:10.1186/1687-6180-2013-100, May 2013.

[13] E. Lagunas, M. G. Amin, F. Ahmad, and M. Najar,"Determining building interior structures using compressive sensing," Journal of Electronic Imaging, vol. 22, no. 2, April 2013.

[14] J. Qian, F. Ahmad, and M. G. Amin, "Joint localization of stationary and moving targets behind walls using sparse scene recovery," Journal of Electronic Imaging, vol. 22, no. 2, April 2013.

[15] E. L. Targarona, M. G. Amin, F. Ahmad and M. Nájar, "Joint wall mitigation and compressive sensing for indoor image reconstruction," IEEE Transactions on Geoscience and Remote Sensing, vol. 51, no. 2, January 2013.

[16] M. G. Amin and F. Ahmad, "Change detection analysis of humans moving behind walls," IEEE Transactions on Aerospace and Electronic Systems, vol.49, no. 1, January 2013.

[17] F. Ahmad and M. G. Amin, "Through-the-wall human motion indication using sparsity-driven change detection," IEEE Transactions on Geoscience and Remote Sensing, vol. 51, no. 2, January 2013.

[18] R. Demirli, J. Saniie, "Model-based estimation pursuit for sparse decomposition of ultrasonic echoes," IET Signal Processing, vol.6, no.4, January 2013.

[19] S. Santhanam, R. Demirli, "Reflection of lamb waves obliquely incident on the free edge of a plate," Ultrasonics, vol. 53, no. 1, January 2013.