

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

Conferences - 2008

- [1] C. Y. Lu, Y. Zhang, J. Wu, P. Cook, X. Li, and M. Amin, "Antenna array beamforming technology: enabling superior aeronautical communication link performance," Proceedings of the International Telemetering Conference, San Diego, CA, October 2008.
- [2] Y. Zhang and M. G. Amin, "MIMO radar exploiting narrowband frequency-hopping waveforms," Proceedings of the European Signal Processing Conference, August 2008.
- [3] John McVay, Christopher Thajudeen, and Ahmad Hoorfar, "Stacked Peano Curve Top-Loaded Monopoles for Wide-Band Performance," Proceedings of the General Assembly of International Union of Radio Science, Chicago, IL, August 2008.
- [4] H. Estephan, K. M. Yemelyanov, A. Hoorfar, and M. Amin, "Natural frequency classifications of walls and targets in through-the-wall radar imaging" Proceedings of the 2008 IEEE International Symposium on Antennas and Propagation, San Diego, CA, July 2008.
- [5] Y. Zhang, M. G. Amin, and F. Ahmad, "Localization of vibrating targets using dual-frequency synthetic aperture radar and time-frequency analysis," Proceedings of the 2008 IEEE International Geoscience & Remote Sensing Symposium, Boston, MA, July 2008.
- [6] C. Debes, M. G. Amin, and A. Zoubir, "Target detection in multiple-viewing through-the-wall radar imaging," Proceedings of the 2008 IEEE International Geoscience & Remote Sensing Symposium, Boston, MA, July 2008.
- [7] Y. Zhang, X. Li, E. Monneri, G. Pritchard, and R. Cardozo, "Localization of orphan utility meters based on spatio-temporal signature information," Proceedings of the IEEE Sensor Array and Multichannel Signal Processing Workshop, Darmstadt, Germany, July 2008.
- [8] A. Hoorfar, F. Ahmad, C. Thajudeen, "Synthesis of Wideband Imaging Beamformers Using Evolutionary Programming," Proceedings of the IEEE International Symposium on Antennas and Propagation, San Diego, CA, July 2008.
- [9] A. Hoorfar, F. Ahmad, C. Thajudeen, "Synthesis of Wideband Imaging Beamformers Using Evolutionary Programming," Proceedings of the 2008 IEEE International Symposium on Antennas and Propagation, San Diego, CA, July 2008.
- [10] John McVay, Christopher Thajudeen, and Ahmad Hoorfar, "Reconfigurable Top-Loaded Monopoles Using Stacked Space-Filling Curves," Proceedings of the 2008 IEEE International Symposium on Antennas and Propagation, San Diego, CA, July 2008.
- [11] V. Jamnejad and A. Hoorfar, "Optimization of the Antenna Beam Transmission Efficiency", Proceedings of the 2008 IEEE International Symposium on Antennas and Propagation, San Diego, CA, July 2008.
- [12] R. Caverly and A. Reif, "Modeling Fast Switching Speed PIN Diodes for RF and Microwave Applications," Proceedings of the 2008 International Microwave Symposium, June 2008.
- [13] Y. Zhang, P. Setlur, M. G. Amin, and F. Ahmad, "Application of time-frequency analysis and Kalman filter to range estimation of targets in enclosed structures," Proceedings of the 2008 IEEE Radar Conference, Rome, Italy, May 2008.

- [14] S. A. Kassam, F. Ahmad, M. G. Amin, and K. Yemelyanov, "Target and change detection in synthetic aperture radar sensing of urban structures," Proceedings of the IEEE Radar Conference, Rome, Italy, May 2008.
- [15] Y.-S. Yoon, and M. Amin, "High resolution through-the-wall radar imaging using extended target model," Proceedings of the 2008 IEEE Radar Conference, Rome, Italy, May 2008.
- [16] M. Shamoudi, M. Amin, and R. Landry, "Acquisition of weak GNSS signals using a new block averaging pre-processing," Proceedings of the IEEE/ION Position Location & Navigation Symposium 2008 (PLANS), Monterey, CA, May 2008.
- [17] S. Lakhani, A. Hoorfar, and R. Caverly, "Fixed and Reconfigurable Dual Wideband and Very Wideband Antennas Using Half E-Shaped Patch Elements," Proceedings of the 2008 IEEE Sarnoff Symposium, Princeton, NJ, April 2008. Prize Paper
- [18] X. Li, Y. Zhang, and M. G. Amin, "Throughput analysis of ad hoc networks using multibeam antennas with priority-based channel access," Proceedings of the IEEE Wireless Communications and Networking Conference, Las Vegas, NV, March-April 2008.
- [19] C. Thajudeen, J. McVay and A. Hoorfar, "A Novel Wideband Dual-Stacked Peano-Curve Top-Loaded Monopole for UAV Applications," Proceedings of the IEEE Sarnoff Symposium, April 2008.
- [20] B. G. Mobasser and Z. Rosenbaum, "3D classification of through-the-wall radar images using statistical object models," Proceedings of the IEEE Workshop on Image Analysis and Interpretation, Santa Fe, NM, March 2008.
- [21] B. G. Mobasser and P. Krishnamurthy, "Track history development by combining watermarking and target tracking," Proceedings of the SPIE Unmanned Systems Technology X, Orlando, FL, March 2008.
- [22] Z. Rosenbaum and B. G. Mobasser, "Interpretation of through-the-wall radar imagery by probabilistic volume model building," Proceedings of the SPIE Sensors, and Command, Control, Communications, and Intelligence (C3I) Technologies for Homeland Security and Homeland Defense VII, Orlando, FL, March 2008.
- [23] Y. Zhang, M. G. Amin, and F. Ahmad, "Moving target localization using dual-frequency radar arrays," Proceedings of the SPIE Symposium on Defense and Security, Radar Sensor Technology XII Conference, Orlando, FL, March 2008.
- [24] X. Li, Y. Zhang, and M. G. Amin, "Multibeam antenna scheduling in ad hoc wireless networks," Proceedings of the SPIE Symposium on Defense and Security, Orlando, FL, March 2008.
- [25] Y.-S. Yoon, and M. Amin, "High resolution through-the-wall radar image based on beamspace eigenstructure subspace methods," Proceedings of the SPIE Symposium on Defense and Security, Orlando, Florida, March 2008.
- [26] F. Ahmad, Y.-S. Yoon, and M. G. Amin, "Through-the-wall polarimetric imaging," Proceedings of the SPIE Symposium on Defense and Security, Algorithms on Synthetic Aperture Radar Algorithms XV Conference, Orlando, FL, March 2008.
- [27] F. Ahmad and M. G. Amin, "Multi-viewpoint image fusion for urban sensing applications," Proceedings of the SPIE Symposium on Defense and Security, Signal Processing, Sensor Fusion, and Target Recognition XVII, Orlando, FL, March 2008.
- [28] Y.-S. Yoon, and M. Amin, "Compressive sensing technique for high-resolution radar imaging," Proceedings of the SPIE Symposium on Defense and Security, Orlando, Florida, March 2008.

- [29] H. Estephan, M. Amin, K. Yemelyanov, A. Hoorfar "Waveform design for through-the-wall radar imaging applications.", Proceedings on Sensors, and Command, Control, Communications, and Intelligence (C3I) Technologies for Homeland Security and Homeland Defense VII, SPIE, Orlando Florida, 2008
- [30] B. G. Mobasser and P. Krishnamurthy, "Establishing target track history by digital watermarking," Proceedings of the SPIE Conference on Security, Forensics, Steganography, and Watermarking of Multimedia Contents X, San Jose, CA, January 2008.