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Center for Advanced Communications research personnel.***

Conferences - 2009

- [1] X. Li, Y. Zhang, and M. G. Amin, "Joint source power scheduling and distributed relay beamforming in multiuser cooperative wireless networks," Proceedings of the IEEE Global Communications Conference, Honolulu, HI, November-December 2009.
- [2] C. Debes, M. Amin and A. Zoubir, "Optimal decision fusion in through-the-wall radar imaging," Proceedings of the IEEE Workshop on Statistical Signal Processing, Cardiff, Wales, UK, September 2009.
- [3] Y. Yoon and M. Amin, "Imaging of behind the wall targets using wideband beamforming with compressive sensing," Proceedings of the IEEE Workshop on Statistical Signal Processing, Cardiff, Wales, UK, September 2009.
- [4] Y. Zhang, X. Li and M. Amin, "Real-time acquisition and tracking of sniper bullets using multi-sensor multi-frequency radar techniques," Proceedings of the IEEE Workshop on Statistical Signal Processing, Cardiff, Wales, UK, September 2009.
- [5] Y. Zhang, X. Li, and M. G. Amin, "Distributed beamforming in multi-user cooperative wireless networks," Proceedings of the International Conference on Communications and Networking, China, Xi'an, China, August 2009 (Best Paper Award).
- [6] F. Ahmad and M. Amin, "Multistatic matched-illumination waveform design for detection and identification of indoor targets behind walls," Proceedings of the EUSIPCO 2009, Glasgow, Scotland, August 2009.
- [7] Y. Zhang, K. Yemelyanov, X. Li, and M. G. Amin, "Effect of metallic objects and liquid supplies on RFID links," Proceedings of the IEEE AP-S International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting, Charleston, SC, June 2009.
- [8] R. Caverly, "Modeling PIN Diodes for High Power RF and Microwave Applications", Proceedings of the 2009 IEEE Intl. Microwave Symposium, Boston, MA, June 2009.
- [9] S. Lakhani, and A. Hoorfar, "Faster antenna optimization using a hybrid ep-pso algorithm," Proceedings of the IEEE International Symposium on Antennas and Propagation, Charleston, SC, June 2009.
- [10] C. Thajudeen and A. Hoorfar, "Pin diode reconfigurable wideband peano top-loaded monopoles," Proceedings of the IEEE International Symposium on Antennas and Propagation, Charleston, SC, June 2009.
- [11] A. Hoorfar and C. Thajudeen "Multilayer wall parameter estimation and mitigation techniques in through-wall imaging radar," Proceedings of the IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, Charleston, SC, June 2009.
- [12] F. Ahmad and M. G. Amin, "Waveform design for multistatic through-the-wall radar," Proceedings of the IEEE Radar Conference, Pasadena, CA, May 2009.
- [13] X. Li and Y. Zhang, "Throughput analysis of cooperative wireless medium access scheme exploiting multi-beam adaptive arrays," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Taipei, Taiwan, April 2009.
- [14] P. Setlur, M. G. Amin, and F. Ahmad, "Optimal and suboptimal micro-doppler estimation schemes using carrier diverse doppler radars," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Taipei, Taiwan, April 2009.

- [15] C. Debes, J. Riedler, M. G. Amin, and A. M. Zoubir, "Iterative target detection approach in through wall radar imaging," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Taipei, Taiwan, April 2009.
- [16] Y. Zhang, K. Yang, and M. G. Amin, "Robust target localization in moving radar platform through semidefinite relaxation," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Taipei, Taiwan, April 2009.
- [17] X. Li, Y. Zhang, and M. G. Amin, "Multifrequency-based range estimation of RFID tags," Proceedings of the IEEE International Conference on RFID, Orlando, FL, April 2009.
- [18] Y. Zhang, X. Li, and M. G. Amin, "Array processing for RFID tag localization exploiting multi-frequency signals," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Orlando, FL, April 2009.
- [19] X. Li, Y. Zhang, and M. G. Amin, "Anti-collision protocols for RFID systems exploiting multi-antenna readers," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Orlando, FL, April 2009.
- [20] Y.-S. Yoon, and M. G. Amin, "Behind-the-wall target identification," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Orlando, FL, April 2009.
- [21] Y. Zhang, X. Li, Y. Jin, M. G. Amin, and A. Eydgahi, "Distributed radar network for real-time tracking of bullet trajectory," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Orlando, FL, April 2009.
- [22] F. Ahmad and M. G. Amin, "Optimal waveform design for through-the-wall radar imaging," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Orlando, FL, April 2009.
- [23] P. Setlur, M. G. Amin, and A. Zoubir, "Detection and classification of objects using acoustic excitations," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Orlando, FL, April 2009.
- [24] B. G. Mobasserri and M. G. Amin, "A Time-frequency classifier for human gait recognition," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Orlando, FL, April 2009.
- [25] Christopher Thajudeen, and Ahmad Hoorfar, "Electrically Small Top-loaded Monopoles Utilizing Space Filling Curves: Concept, Design and Experiment," Proceedings of the 2009 Progress In Electromagnetics Research Symposium (PIERS), Beijing, China, March 2009.
- [26] F. Ahmad, M. G. Amin, and H. Estephan, "Multistatic waveform design for seeing through the wall," Proceedings of the 2009 International Waveform Diversity and Design Conference, Orlando, FL, 8-13 February 2009.
- [27] R. Caverly and A. Hoorfar, "Reconfigurable Hilbert Antennas Using High Speed PIN Diodes," Proceedings of the 2009 IEEE Radio and Wireless Symposium, San Diego, CA, January 2009.