

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

Conferences - 2018

- [1] B. Erol and M. G. Amin, "Radar datacube analysis for fall detection," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Calgary, Alberta, Canada, April 2018.
- [2] S. A. Hamza, M. G. Amin and G. Fabrizio, "Optimum sparse array design for maximizing signal-to-noise ratio in presence of local scatterings," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Calgary, Alberta, Canada, April 2018.
- [3] A. Deligiannis, M. G. Amin, G. Fabrizio, S. Lambotharan, "Optimum configurations of sparse subarray beamformers," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Calgary, Alberta, Canada, April 2018.
- [4] X. Wang, M. G. Amin, and X. Wang, "Optimum sparse array design for multiple beamformers with common receiver," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Calgary, Alberta, Canada, April 2018.
- [5] M. S. Seyfioglu, B. Erol, S. Z. Gurbuz, and M. G. Amin, "Diversified radar micro-doppler simulations as training data for deep residual neural networks," Proceedings of the IEEE Radar Conference, Oklahoma City, OK, April 2018.
- [6] A. Deligiannis, M. G. Amin, G. Fabrizio, S. Lambotharan, "Sparse subarray design for multitask receivers," Proceedings of the IEEE Radar Conference, Oklahoma City, OK, April 2018.
- [7] M. G. Amin and B. Erol "Understanding deep neural networks performance for radar-based human motion recognition," Proceedings of the IEEE Radar Conference, Oklahoma City, Oklahoma, April 2018.
- [8] A. Seifert, A. Zoubir, and M. G. Amin, "Radar classification of human gait abnormality based on sum-of-harmonics Analysis," Proceedings of the IEEE Radar Conference, Oklahoma City, OK, April 2018.
- [9] S. A. Hamza, M. G. Amin and G. Fabrizio, "Optimum sparse array beamforming for general rank signal models," Proceedings of the IEEE Radar Conference, Oklahoma City, OK, April 2018.
- [10] A. Hassanien, B. Himed, and M. G. Amin, "Transmit/Receive beamforming design for joint radar and communications systems," Proceedings of the IEEE Radar Conference, Oklahoma City, OK, April 2018.
- [11] S. A. Hamza, M. G. Amin and G. Fabrizio, "Optimum sparse radio telescope array beamforming," Proceedings of the SPIE Defense and Commercial Sensing, Orlando, FL, April 2018.
- [12] B. Erol, M. Francesco, A. Ravisankar, M. G. Amin, "Realization of Radar-Based Fall Detection Using Spectrograms," Proceedings of the SPIE Defense and Commercial Sensing, Orlando, FL, April 2018.
- [13] B. Erol, M. S. Seyfioglu, S. Z. Gurbuz, and M. G. Amin, "Data-driven cepstral and neural learning of features for robust micro-Doppler classification," Proceedings of the SPIE Defense and Commercial Sensing, Orlando, FL, April 2018.