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**Conferences - 2014**

- [1] Q. Wu, Y. D. Zhang, and M. G. Amin, and F. Ahmad, "Robust multipath exploitation radar imaging in urban sensing based on Bayesian compressive sensing," Proceedings of the Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, November 2014.
- [2] Q. Wu, Y. D. Zhang, M. G. Amin, A. Golato, S. Santhanam, and F. Ahmad, "Structure health monitoring exploiting MIMO ultrasonic sensing and group sparse Bayesian learning," Proceedings of the Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, November 2014.
- [3] A. H. Muqaibel, M. G. Amin, and F. Ahmad, "Directional multipath exploitation for urban target localization with a single-antenna," Proceedings of the International Radar Conference, Lille, France, October 2014.
- [4] M. G. Amin, F. Ahmad, and A. Hoorfar, "Squinted array beamforming for wall back plate detection," Proceedings of the International Radar Conference, Lille, France, October 2014.
- [5] M. G. Amin, X. Wang, F. Ahmad, and E. Aboutanios, "Coarray based optimum geometries for DOA estimation with multiple CRPA GPS arrays," Proceedings of the ION GNSS+, Tampa, FL, September 2014.
- [6] X. Wang, E. Aboutanios, M. G. Amin, and C.Y. Pui, "Off-Grid DOA Estimation Using Interpolation on Spatial Spectrum Coefficients in GNSS Applications," Proceedings of the ION GNSS+, Tampa, FL, September 2014.
- [7] M. G. Amin and Y. D. Zhang, "Nonstationary jammer excision for GPS receivers using sparse reconstruction techniques," Proceedings of the ION GNSS+, Tampa, FL, September 2014. (Best Paper Award)
- [8] B. Jokanovic, M. G. Amin, Y. D. Zhang, and F. Ahmad, "Adaptive time-frequency kernel design for sparse joint-variable signal representations," Proceedings of the European Signal Processing Conference, Lisbon, Portugal, September 2014.
- [9] E. BouDaher, Y. Jia, F. Ahmad, and M. G. Amin, "Direction-of-arrival estimation using multi-frequency co-prime arrays," Proceedings of the 22nd European Signal Processing Conference, Lisbon, Portugal, September 2014.
- [10] B. Jokanovic, M. G. Amin, Y. D. Zhang, and F. Ahmad, "Time-frequency kernel design for sparse joint-variable signal representations," Proceedings of the European Signal Processing Conference, Lisbon, Portugal, September 2014.
- [11] S. Qin, Y. D. Zhang, and M. G. Amin, "DOA estimation of mixed coherent and uncorrelated signals exploiting a nested MIMO system," Proceedings of the IEEE Benjamin Franklin Symposium on Microwave and Antenna Sub-systems, Philadelphia, PA, September 2014.
- [12] G. Li, P. K. Varshney, and Y. D. Zhang, "Multistatic radar imaging via decentralized and collaborative subspace pursuit," Proceedings of the International Conference on Digital Signal Processing, Hong Kong, China. August 2014.

- [13] S. Qin, Y. D. Zhang, Q. Wu, and M. G. Amin, "Large-scale sparse reconstruction through partitioned compressive sensing," Proceedings of the International Conference on Digital Signal Processing, Hong Kong, August 2014.
- [14] Q. Wu, Y. D. Zhang, and M. G. Amin, "Continuous structure based Bayesian compressive sensing for sparse reconstruction of time-frequency distributions," Proceedings of the International Conference on Digital Signal Processing, Hong Kong, August 2014.
- [15] L. Ramirez Rivera, E. Ulmer, Y. D. Zhang, W. Tao, and **M. G. Amin**, "Radar-based fall detection exploiting time-frequency features," Proceedings of the IEEE China Summit and International Conference on Signal and Information Processing, Xi'an, China, July 2014.
- [16] Q. Wu, Y. D. Zhang, **M. G. Amin**, and F. Ahmad, "Through-the-wall radar imaging based on modified Bayesian compressive sensing," Proceedings of the IEEE China Summit and International Conference on Signal and Information Processing, Xi'an, China, July 2014.
- [17] Q. Shen, W. Liu, W. Cui, S. Wu, Y. D. Zhang, and **M. G. Amin**, "Group sparsity based wideband DOA estimation for co-prime arrays," Proceedings of the IEEE China Summit and International Conference on Signal and Information Processing, Xi'an, China, July 2014.
- [18] M. Leigsnering, F. Ahmad, M. G. Amin, and A. Zoubir, "CS Based Specular Multipath Exploitation in TWRI under Wall Position Uncertainties," Proceedings of the IEEE Sensor Array and Multichannel Signal Processing Workshop, A Coruna, Spain, June 2014.
- [19] S. Qin, Y. D. Zhang, and M. G. Amin, "Generalized coprime array configurations," Proceedings of the IEEE Sensor Array and Multichannel Signal Processing Workshop, A Coruna, Spain, June 2014.
- [20] M. Leigsnering, F. Ahmad, M. G. Amin, and A. M. Zoubir, "Specular multipath exploitation for improved velocity estimation in through-the-wall radar imaging," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, May 2014.
- [21] Q. Wu, Y. D. Zhang, M. G. Amin, and B. Himed, "Complex multitask Bayesian compressive sensing," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, May 2014.
- [22] M. G. Amin, Y. D. Zhang, and B. Jukanovic, "Time-frequency signature reconstruction from random observations using multiple measurement vectors," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, May 2014.
- [23] Y. D. Zhang, S. Qin, and M. G. Amin, "DOA estimation exploiting coprime arrays with sparse sensor spacing," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, May 2014.
- [24] S. Subedi, Y. D. Zhang, M. G. Amin, and B. Himed, "Motion parameter estimation of multiple targets in multistatic radar through sparse signal recovery," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, May 2014.
- [25] Y. D. Zhang and B. Himed, "Space-time adaptive processing in bistatic passive radar exploiting complex Bayesian learning," Proceedings of the IEEE Radar Conference, Cincinnati, OH, May 2014.
- [26] V. Kilaru, M. G. Amin, F. Ahmad, P. Sevigny, and D. DiFilippo, "Gaussian mixture model based features for stationary human identification in urban radar imagery," Proceedings of the IEEE Radar Conference, Cincinnati, OH, May 2014.
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- [29] S. Qin, Y. D. Zhang, and M. G. Amin, "DOA estimation exploiting coprime frequencies," Proceedings of the SPIE Symposium on Wireless Sensing, Localization, and Processing Conference IX, Baltimore, MD, May 2014.
- [30] B. Jokanovic, M. G. Amin, Y. D. Zhang, "Time-frequency kernel design for compressive sensing," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Compressive Sensing III Conference, Baltimore, MD, May 2014.
- [31] M. G. Amin, Y. D. Zhang, and B. Jokanovic, "Multiple-window sparse reconstruction of FM signals from random observations," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Compressive Sensing III Conference, Baltimore, MD, May 2014.
- [32] Q. Wu, Y. D. Zhang, and M. G. Amin, "Synthetic aperture imaging of sparse targets in passive radar based on Bayesian compressive sensing," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Compressive Sensing III Conference, Baltimore, MD, May 2014.
- [33] A. Golato, S. Santhanam, F. Ahmad, and M. G. Amin, "Multimodal sparse reconstruction in lamb wave based nondestructive evaluation," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Compressive Sensing III Conference, Baltimore, MD, May 2014.
- [34] K. Al Kadry, M. G. Amin, and F. Ahmad, "Sparsity-based ranging for dual-frequency radars," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Compressive Sensing III Conference, Baltimore, MD, May 2014.
- [35] A. Chaddad, F. Ahmad, M. G. Amin, P. Sevigny, and D. DiFilippo, "Textural feature selection for enhanced detection of stationary humans in through-the-wall radar imagery," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Radar Sensor Technology XVI Conference, Baltimore, MD, May 2014.
- [36] A. Gadde, M. G. Amin, Y. D. Zhang, and F. Ahmad, "Fall detection and classifications based on time-scale radar signal characteristics," Proceedings of the SPIE Symposium on Defense, Security, and Sensing, Radar Sensor Technology XVI Conference, Baltimore, MD, May 2014.
- [37] R. M. Wynne, E. Backmackov, and C. Molina, "Image-based Spectroscopy for Environmental Monitoring," Proceeding of the SPIE 8346, Smart Sensor Phenomena, Technology, Networks, and Systems Integration 2014, San Diego, CA March 2014.
- [38] R. M. Wynne and A. Mansary, "Fluorescence monitoring with steering wheel photonic crystal fiber," Proceeding of the SPIE 8346, Smart Sensor Phenomena, Technology, Networks, and Systems Integration 2014, San Diego, CA March 2014. (Invited Paper)
- [39] S. Magoon, A. Fathy, C. Thajuddin, A. Hoorfar, "Compact, mobile, low power UWB system for through-wall imaging," Proceedings of the IEEE Radio and Wireless Symposium, Newport Beach, CA, January 2014.