

SPARSE SIGNAL PROCESSING FOR MILLIMETER-WAVE COMMUNICATIONS



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NEXT YEAR PLANNING



[1] J. Rodríguez-Fernández, N. González-Prelcic and R.W. Heath Jr., "Channel estimation in mixed hybrid-low resolution MIMO architectures for mmWave communication", Asilomar 2016
[2] J. Rodríguez-Fernández, K. Venugopal, N. González-Prelcic and R.W. Heath Jr., "A frequency-domain to wideband channel estimation in millimeter wave systems", ICC 2017, Paris (France)
[3] J. Rodríguez-Fernández, N. González-Prelcic, K. Venugopal and R.W. Heath Jr., "Exploiting common sparsity for frequency-domain wideband channel estimation at mmWave", submitted to Globecom 2017.

[4] J. Rodríguez-Fernández, N. González-Prelcic, K. Venugopal and R. W. Heath Jr., "Frequency-domain Compressive Channel Estimation for Frequency-Selective Hybrid mmWave MIMO Systems", submitted to IEEE Transactions on Wireless Communications, available at arXiv, 2016.
[5] J. P. González-Coma, J. Rodríguez-Fernández, N. González-Prelcic and L. Castedo, "Channel estimation and hybrid precoding/combining for frequency selective multiuser mmWave channels", submitted to Globecom 2017.

[6] J. P. González-Coma, J. Rodríguez-Fernández, N. González-Prelcic, L. Castedo and R.W. Heath Jr., "Uplink versus downlink wideband channel estimation and hybrid precoding and combining for frequency selective multiuser mmWave MIMO systems", under preparation.
[7] J. Rodríguez-Fernández, N. González-Prelcic and R.W. Heath Jr., "Exploiting common sparsity for frequency-domain wideband channel estimation at mmWave", IEEE Joint EURASIP and Summer School on 5G Wireless Access, June 2017, Gothenburg (Sweden).