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**David Montague\*** (davmont@stanford.edu) and **Bala Rajaratnam**  
(brajarat@stanford.edu). *Positive definite sequences and positivity with applications to spatial random fields.*

We look at functions retaining positivity of special classes of covariance matrices associated with spatial random fields. In particular, we consider sufficient conditions for retaining positivity when applying element-wise thresholding to such classes of positive definite functions. (Received September 15, 2014)