% Calculates the commutation matrix Kmn such that:
% Kmn*vec(A) = vec(A') where A is dimension m x n
% Based on http://m.feng.li/r-tips/r-commutation-matrix
function K = Kmn(m,n)

K = zeros(m*n, m*n);
m0 = 1:(m*n);

N = reshape(m0, m,n)';
n0 = N(:);

for i = 1:(m*n)
    K(m0(i), n0(i)) = 1;
end