```matlab
function [ normalizedMatrix ] = normalizeMatrix(matrix, normMin,
 normMax)

    matrixMin = min(min(matrix));
    matrixMax = max(max(matrix));
    matrixRange = matrixMax - matrixMin;

    matrix0To1 = (matrix - matrixMin) / matrixRange;

    normRange = normMax - normMin;
    normalizedMatrix = (matrix0To1 * normRange) + normMin;

end
```

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