

2D circular convolution using doubly block circulant matrices (cont.)

$$\mathbf{H} = \begin{bmatrix} \mathbf{H}_0 & \mathbf{H}_{M-1} & \mathbf{H}_{M-2} & \cdots & \mathbf{H}_1 \\ \mathbf{H}_1 & \mathbf{H}_0 & \mathbf{H}_{M-1} & \cdots & \mathbf{H}_2 \\ \mathbf{H}_2 & \mathbf{H}_1 & \mathbf{H}_0 & \cdots & \mathbf{H}_3 \\ \vdots & \vdots & \vdots & \cdots & \vdots \\ \mathbf{H}_{M-1} & \mathbf{H}_{M-2} & \mathbf{H}_{M-3} & \cdots & \mathbf{H}_0 \end{bmatrix}$$

Each \mathbf{H}_j , for $j=1,\dots,M$, is a circulant matrix with N columns (the number of **columns** of $f[m,n]$) generated from the elements of the j -th **row** of $h[m,n]$.

Circulant Matrices

Huangqi Zhang



Circulant Matrices:

Circulant Matrices Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Circulant Matrices**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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