



$$\overline{L}(i,j) = \left\{ x_{i+N\cdot j} \right\}$$

$$\Gamma = \left\{ \begin{array}{c} \chi_{i+Nj} \\ \lambda_{i+Nj} \end{array} \right\}_{i,j=0}^{N-1}$$

rojections:

In
$$C$$
 direction: Row Sum (i) = $\sum_{i=0}^{N-1} I(i,j) = \sum_{i=0}^{N-1} (X_{i+N-j})$

in j direction: Col Sum (i) = $\sum_{j=0}^{N} (X_{i+N-j})$

$$\sum_{j=0}^{N} (x_{i+N}, j)$$

ead Voxel indexed by {

i,j, k}

Indexing of the Voxels:

V(i,j,k) = Xi+N·j+N².k

 $I_{1}(i,j) = in \quad \overrightarrow{k} \quad \text{direction} = \sum_{k=0}^{N-1} X_{i+N-j+N-k}$ $I_{2}(i,k) = in \quad \overrightarrow{j} \quad \text{direction} = \sum_{j=0}^{N-1} X_{i+N-j+N-k}$ $I_{3}(i,k) = in \quad \overrightarrow{i} \quad \text{direction} = \sum_{j=0}^{N-1} X_{i+N-j+N-k}$

3.N2 equations

Xinj nek - N unkn