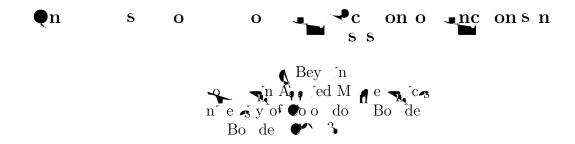
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## I Introduction

$$c_{\mathbf{k};\mathbf{k}';\mathbf{l}}^{\mathbf{j};\mathbf{j}';\mathbf{m}} \quad \int_{-\infty}^{+\infty} \ \mathbf{k} \underbrace{\qquad \qquad \mathbf{j}'}_{\mathbf{k}'} \underbrace{\qquad \qquad \mathbf{m}}_{\mathbf{l}} \underbrace{\qquad \qquad }_{\mathbf{k}} \underbrace{\qquad \qquad }_{\mathbf{k}'} \underbrace{\qquad \qquad }_{\mathbf$$

ne e kg -j=2 -i — e e e sef ncions de como no  $c_{\mathbf{k};\mathbf{k}';\mathbf{l}}^{\mathbf{j};\mathbf{m}}$  does no e en o e me no e of e nonze o of coe c'en sis e nd me se of o e conso como e  $N_{\mathbf{s}}$  e e  $N_{\mathbf{s}}$  e no no e of so e conso como e  $N_{\mathbf{s}}$  e e  $N_{\mathbf{s}}$  e no no e of so c'en sin e e e e en con o  $N_{\mathbf{s}}$  e e  $N_{\mathbf{s}}$  e no e of so c'en sin e e e e en con o e  $N_{\mathbf{s}}$  e e  $N_{\mathbf{s}}$  e no e of so c'en sin e e e e en con o e  $N_{\mathbf{s}}$ 

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## II Multiresolution algorithm for evaluating u

Le scons de 
$$\mathbf{n}$$
 o ec ions of  $\in \mathbf{L}^2$   $\mathbf{R}$  on  $\mathbf{s}$  ces  $\mathbf{V}_j$ 

$$\mathbf{m} = \mathbf{e} \cdot \{\mathbf{V}_j\}_{j \in \mathbf{Z}} \quad \mathbf{s} \quad \mathbf{e} \cdot \mathbf{e} \quad \mathbf{$$

Le sa y conside in ne pe of in  $e^{-t}$  is each of in  $e^{-t}$  in

$$0 \underbrace{\qquad \qquad \sum_{\mathbf{j}=1}^{\mathbf{j}=\mathbf{n}} \sum_{\mathbf{k} \in \mathbf{Z}} d^{\mathbf{j}}_{\mathbf{k}} \quad \mathbf{k}}_{\mathbf{k}} \underbrace{\qquad \qquad \sum_{\mathbf{k} \in \mathbf{Z}} \quad \mathbf{n} \quad \mathbf{n}_{\mathbf{k}} \quad \mathbf{k}}_{\mathbf{k}} M$$

nd śn

e e co h e d'e ences nd e es  $d_{\mathbf{k}}^{\mathbf{j}+1}$  nd  $\mathbf{k}^{\mathbf{j}+1}$  e en dd  $\mathbf{k}^{\mathbf{j}+1}$  o k e fo e e nd n f e cco d'n o e fo o 'n y  $\mathbf{k}^{\mathbf{j}}$  e  $\mathbf{k}^{\mathbf{j}}$ 

3 e fo  $\mathbf{A}_{\mathbf{a}}$  e fo  $\mathbf{A}_{\mathbf{c}}$  e fo  $\mathbf{A}_{\mathbf{c}}$  e  $\mathbf{d}_{\mathbf{k}}$  e fo  $\mathbf{A}_{\mathbf{k}}$  e fo  $\mathbf{A}_{\mathbf{k}}$  e fo  $\mathbf{A}_{\mathbf{k}}$  in  $\mathbf{d}_{\mathbf{k}}$  and  $\mathbf{d}_{\mathbf{k}}$  in  $\mathbf{d}$ 

$$\sum_{j=1}^{2} \sum_{k \in \mathbb{Z}} d_{k}^{j} d_{k}^{j} d_{k}^{j} \sum_{k \in \mathbb{Z}} n n n n n n n n$$

as ce hen se of o e fons fo co in he e n son of  $\frac{2}{0}$  to o on o hen se of s n coe cen s $d_{\mathbf{k}}$  in he e e e n son of 0e d'enson ce

## o $u^2$ n

eno en o e ene ce of e en de en o que, nd ino e e e es nien ece of e sage, od con en se so e ino e ne se nd e de eo, ne cen , o q oq nd e As o e e e co e con c y so o ed e e so o o consde con e no 

$$M_{\mathbf{WWW}}^{\mathbf{J}:\mathbf{J}'} M' M = \int_{-\infty}^{+\infty} \mathbf{k} \left[ \mathbf{k}' \right] \left[ \mathbf{k}' \right] dM$$

$$M_{\mathbf{WWW}}^{\mathbf{j};\mathbf{j}'} \underbrace{M'M} \qquad {}^{-\mathbf{j}'=2} \int_{-\infty}^{+\infty} \overset{\mathbf{j}-\mathbf{j}'}{\underset{\mathbf{k}-\mathbf{k}'}{\underbrace{\mathbf{k}}}} \overset{\mathbf{j}-\mathbf{j}'}{\underset{\mathbf{k}-\mathbf{k}'}{\underbrace{\mathbf{k}}}} \overset{0}{\underset{2^{j-j'}\mathbf{k}-\mathbf{l}}{\underbrace{\mathbf{k}}}} dt M$$

The same of the end o

nse dof c'en o consde de Min

$$\mathbf{V}_0 \times \mathbf{V}_0 \to \mathbf{V}_0$$

for an order of  $\mathbf{v}_0$ 

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## References

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