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LUKE A. D. HUTCHISON (lukeh@byu.net)





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Predictive image compression by registration (14% reduction)



 $\leftarrow Frequency \rightarrow$

 Can also perform DFT in 2 or more dimensions: breaks down spatially-distributed signal (e.g. image) into individual frequency components

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DFT of document image

• Sets of parallel lines act as periodic "wavefronts"



Document image DFT of document image

• Sets of parallel lines act as periodic "wavefronts"

A function is sampled at exponential intervals to produce a log-domain representation

$$\phi(z) = \int_0^\infty t^{z-1} f(t) \,\mathrm{d}t$$

• Scaling a function by a factor of *S* results in a shift in the Mellin transform by log(*S*):

$$x' = x \cdot S$$

 $\log(x') = \log(x) + \log(S)$

The service monitories and stilling while the control ties of the



DFT of image





FMT of image

Fourier-Mellin Transform for Image Registration

- Fourier Shift Theorem => ignore translation when dealing with magnitudes
- Mellin Transform of DFT used for registration
 (log ρ, θ) histogram: Recovery of scale, rotation is a 2D correlation problem



 $\log \rho$

- Several issues, e.g.
 - Rotationally-dependent aliasing
 - "Edge Effects" (rotation and periodicity don't commute)



 Scale: Sample along recovered axes at exponential intervals; offset of best 1D correlation gives log(scale)



• Translation: Simple 2D correlation - needs bg removal





Scale: Sample along recovered axes at exponential intervals;
 offset of best 1D correlation gives log(scale)



Scale: Sample along recovered axes at exponential intervals; offset of best 1D correlation gives log(scale)



Scale: Sample along recovered axes at exponential intervals;
 offset of best 1D correlation gives log(scale)



 Scale: Sample along recovered axes at exponential intervals; offset of best 1D correlation gives log(scale)

Preprocessing: Automatic Background Removal

Subtract median-filtered image from original, leaving only fine features Removes shading *and* black borders



Martin Barris and The Contract of Contract

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The summing mention regimes are summer and the boundaries of the

F-M Transform: Edge Effects

• DFT assumes domain wraps; wrapping does not commute with rotation



F-M Transform: Edge Effects

Background removal eliminates the need for apodization

Without background removal:



With background removal:









RMS Error

(100 Different Transformation Reversals of the Same Image)

Rotation / Shear: 0.001° Scale: 0.030 % Translation: 0.16 pixels

Conclusions

- Specialization of Fourier-Mellin image registration for tabular document images
- Each transform component is completely separable, and recovered in the frequency domain
- F-M registration extended to handle arbitrary affine transforms (including shear)
- Elimination of edge effects and correlation problems through median filter background removal algorithm

Questions?

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