

# Image Quilting for Texture Synthesis and Transfer

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## Texture Synthesis



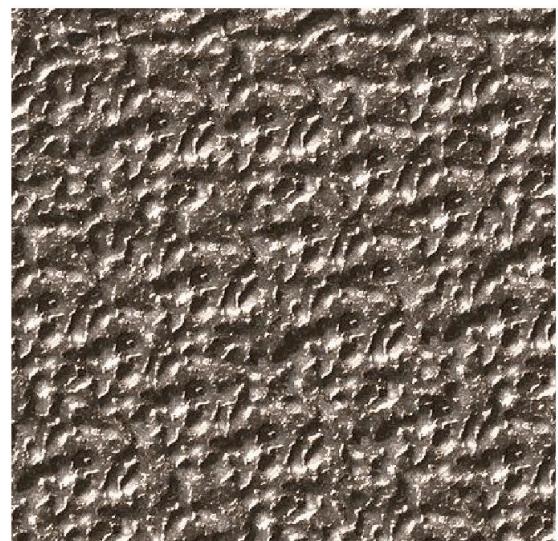
(a) texture



(b) synthesised-texture



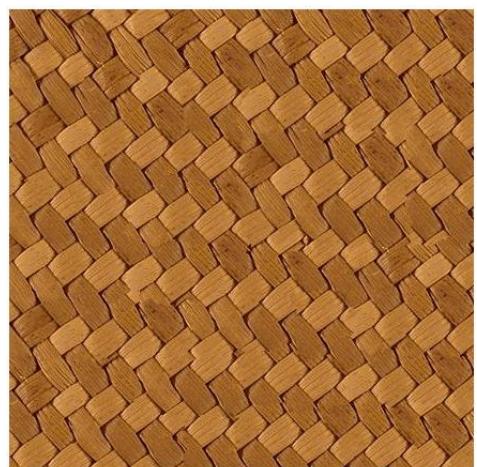
(a) texture



(b) synthesised-texture



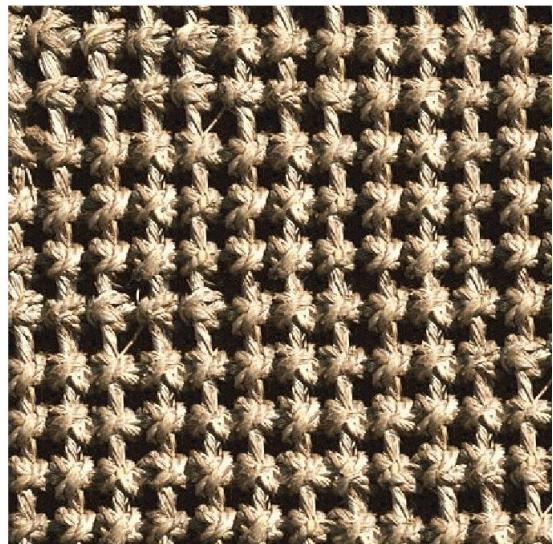
(a) texture



(b) synthesised-texture



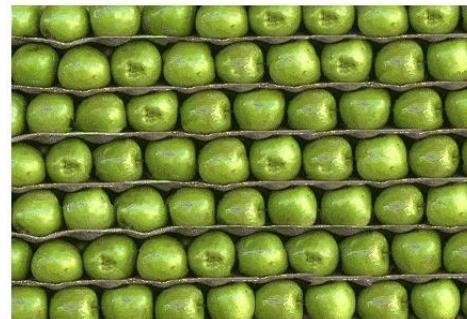
(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



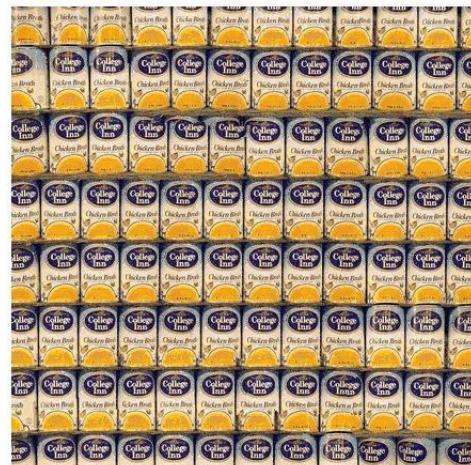
(a) texture



(b) synthesised-texture



(a) texture



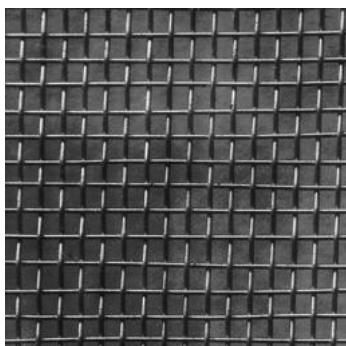
(b) synthesised-texture



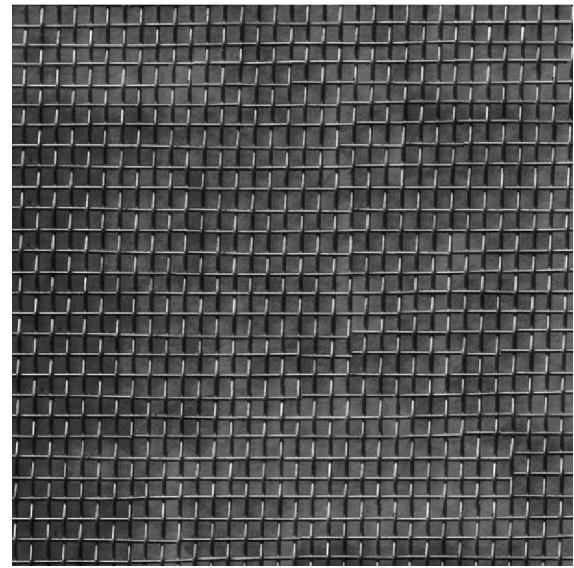
(a) texture



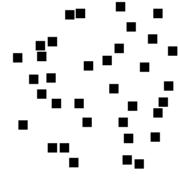
(b) synthesised-texture



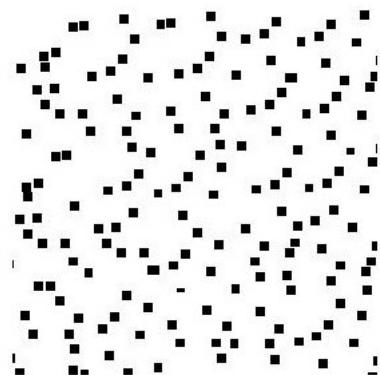
(a) texture



(b) synthesised-texture



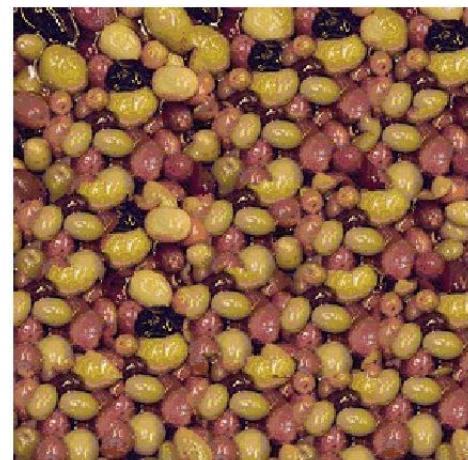
(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



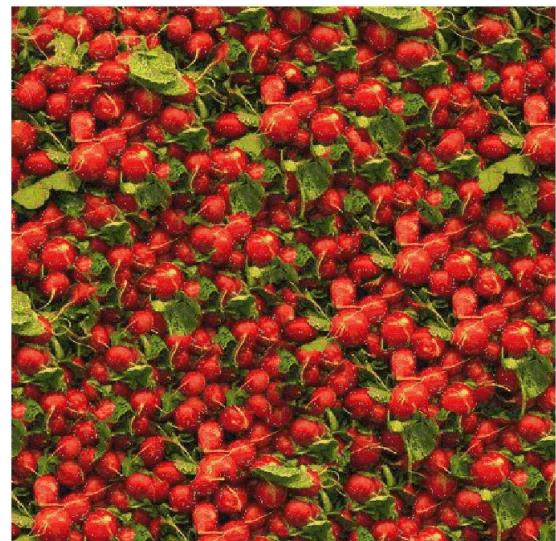
(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



(a) texture



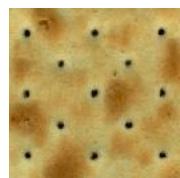
(b) synthesised-texture



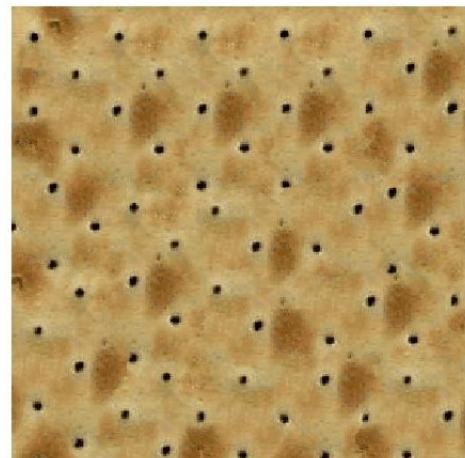
(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



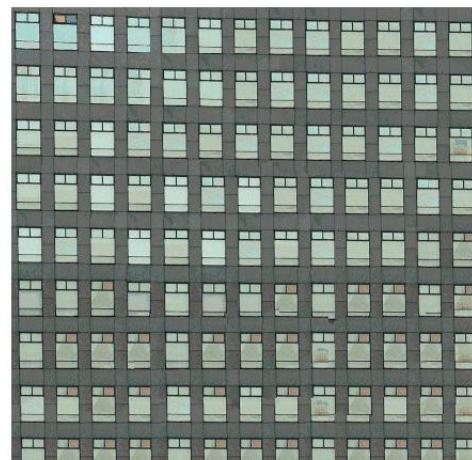
(a) texture



(b) synthesised-texture



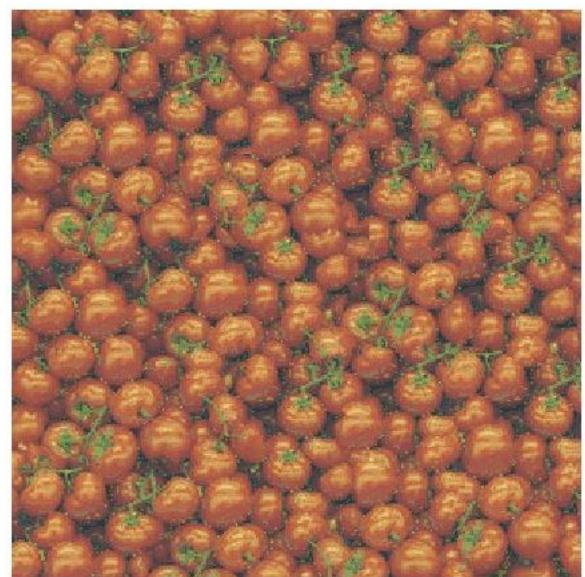
(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture



(a) texture



(b) synthesised-texture

**FIGURE 1 |** **Visual cortical neuron—response of neuron—their the function**

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id neurophysiologically<sup>1–3</sup> and infia framework hal inferlps us to understand the  
especially if such a framework l of that nd the fdlfereer way. Whereas no gen  
it helps us to understand the ual and no geneissian, hns (DOG), difference of  
leerer way. Whereas no generiction of position—is preas no generianctional  
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way. Whereasper way. Wherphysiologically<sup>1–3</sup> and ind the logically<sup>1–3</sup> and in  
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such a framework r way. Whereas no generic as a function of position—is perh  
underthians (DOG), difference of offsettional description of that neuro  
Whereas no genve of a Gaussian, higher derivk a single conceptual and mathe  
G). difference of orion and so on—can be exriba the wealth of simple-cell ...

(a) texture

(b) synthesised-texture

ut it becomes harder to lau  
ound itself, at "this daily  
ring rooms," as House De  
scribed it last fall. He fail  
at he left a ringing question  
more years of Monica Lewin  
inda Tripp?" That now seem  
Political comedian Al Fran  
ext phase of the story will

(a) texture

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scribed it le left a ringans of Morda Tripp?" Tft a ringing ques  
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scribed it late years of iars of Monft; ringing left a ringing q  
t he left a ring Tripp?" Dns?" Thape of Monicear of Monica  
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left a ring years of Mon years of he left a nda Tripp?" That  
years of MoTripp?" Thoda Tripp?"b years of political comediar

(b) synthesised-texture

## Texture Transfer



(a) texture



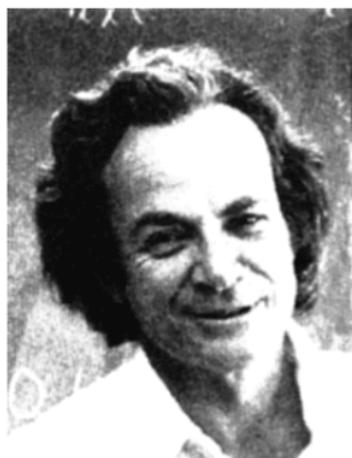
(b) image



(c) transferred-image



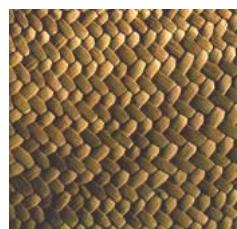
(a) texture



(b) image



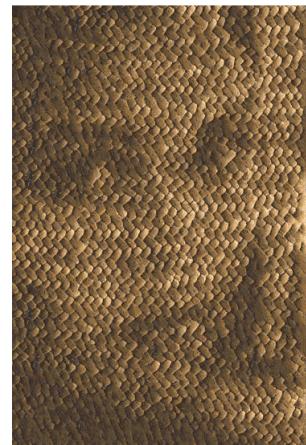
(c) transferred-image



(a) texture



(b) image



(c) transferred-image



(a) texture



(b) image



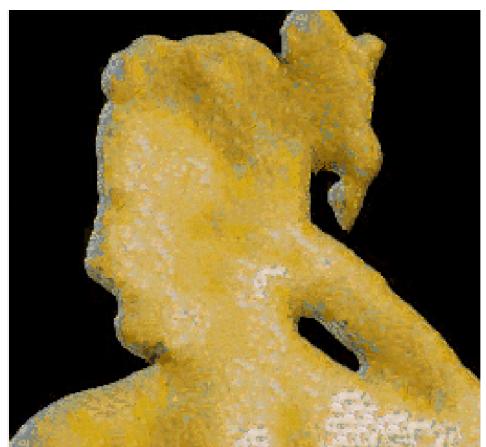
(c) transferred-image



(a) texture



(b) image



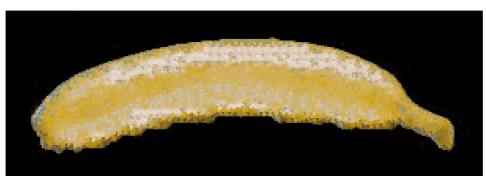
(c) transferred-image



(a) texture



(b) image



(c) transferred-image



(a) texture



(b) image



(c) transferred-image

## Contribution

Name	Contribution
B.Karthikeya	Texture Synthesis - quilting.m, findpatch.m
D.Chandra Sekhar	Texture Transfer - texture.m, findpatch_texture.m
G. Akash Reddy	Minimum Error Boundary Cut - mergepatch.m