

RESEARCH STATEMENT

Original Creative Work

Citation: Noel Patson 2010, Recorded or Rendered Work, Web Exhibition, *Overlapping Patterns*, Wolfram Mathematica.

<http://demonstrations.wolfram.com/OverlappingPatterns/>

Research Background

Polygons are initially arranged in a grid pattern. The offset slider shifts the odd numbered rows and columns of polygons. The "distortion" slider changes the polygons. A colour region is displayed where an odd number of polygons overlap. The "resolution" slider changes the number of sides of each polygon, while the "radii" slider changes the size of each polygon. The resulting work is reminiscent of types of op art popular in the 1960's.

Research Contribution

- Innovation – This presentation is the first overlapping patterns have been created using this approach. The demonstration indicates the connection between art and mathematics.

Research Significance

The demonstration has been through a rigorous review process[†].

[†] <http://demonstrations.wolfram.com/FAQ.html>

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Date: November 2010

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