Abstract

Islamic star and rosette patterns have been extensively studied for their symmetry and aesthetic appeal. This paper presents several new construction methods for stars and rosettes using Turtle geometry and also presents new geometric shapes even more complex than stars and rosettes the construction of which is based on Turtle geometry. It also explores new Turtle geometry based tiling patterns that use these shapes.

References

Construction of Islamic Stars and Rosettes using Turtle Geometry and Tiling Patterns based on Them

11. T. Gangopadhyay, Further Tiling Patterns Involving Islamic Stars with an Odd Number of Vertices, International journal of computer applications, Vol. 67, number 1, 12-16
12. T. Gangopadhyay, On Tiling Patterns Involving Islamic rosettes with an Odd Number of Vertices, International journal of computer applications, Vol. 69, number 9, 9-14,

Index Terms

Computer Science Information Sciences

Keywords

Turtle Geometry, Rosette, Star, Symmetry, Trigonometric,