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#### COMP220- Research Journal

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## 1 Introduction

Paper One: Ken Perlin paper on perlin noise

Perlin Noise Pixel Shaders [1]

Paper Two: Improving Noise [2]

This paper

Paper Three: The Multilevel Finite Element Method for Adaptive Mesh

Optimization and Visualization of Volume Data [3]

Paper Four: Dual/primal mesh optimization for polygonized implicit

surfaces [4]

Paper Five: Illumination for computer generated pictures [5]

Paper Six: An improved illumination model for shaded display [6]

### References

[1] J. C. Hart, "Perlin noise pixel shaders," in Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware, pp. 87–94, ACM, 2001.

- [2] K. Perlin, "Improving noise," in ACM Transactions on Graphics (TOG), vol. 21, pp. 681–682, ACM, 2002.
- [3] R. Grosso, C. Lurig, and T. Ertl, "The multilevel finite element method for adaptive mesh optimization and visualization of volume data," in Visualization'97., Proceedings, pp. 387–394, IEEE, 1997.
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- [6] T. Whitted, "An improved illumination model for shaded display," in ACM Siggraph 2005 Courses, p. 4, ACM, 2005.