Local Avoidance Techniques for Crowd Simulation

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Abstract

This is the abstract

1 Introduction

This is the introduction, I will talk about crowd simulations and their usage in games, animation VFX.

2 Local Avoidance in Crowd Simulation

what is local avoidance, how does it differ from global nav and AI. Various methods, Boids, Social Forces, RVO. analyse them and how good/useful they are

3 RVO

RVO is a method of collision avoidance, it is agent based and can be used in crowd simulation. It orignates from robots (cite).

3.1 How RVO Works

It works by magic...

3.2 RVO Implementation

pseudo code of some form can probably go here.

4 Optimizations

6 Bibliography/Citations

Changing the VO so not so conservative in dense areas

Moving heavy computation to a compute shader.

referencing and stuff.

5 Conclusion

My conclusion and evaluation.