* 1. **Introduction (315/1400) – 30 References**

As the gaming industry continues to expand any content that hopes to engage a wide audience must be able to accommodate for the varied preferences. However, designing and creating individualised game content would take up too much time and resources. Instead there has been a rising interest in automatic generation of game content to assist with producing

* 1. **Background/Context**

Procedural

Context – Automatic Content Generation

Other Games

Opinions/Ratings

**1.3 Research**

**Procedural Generation**

**General Procedural Generation**

# Towards a Generic Framework for Automated Video Game Level Creation

A Multi-Faceted Surrogate Model for Search-based Procedural Content Generation

Evolving Levels using Grammatical Evolution

Mixed Initiative Content Creation

Procedural Level Design for Platform Games (Component based prodGen)

**Search-Based Procedural Content Generation**

The representation of game content is a central question when it comes to evolutionary computation (Togelius, 2010). Search-Based Procedural Content Generation (SBPCG), which is a type of procedural generation that tests the generated content on its fitness based on set parameters. This is used in conjunction with an evolutionary algorithm that changes what the parameters can be. When using SBPCG the representation of the content is very important as it determines how the algorithm analyses the content.

**Track Based Procedural Generation**

Interactive evolution for PCG of tracks in high-end racing games

Automatic Track Generation for High-End Racing Games Using Evolutionary Computation

TrackGen: An interactive track generator for TORCS and Speed-Dreams

**Personalised Procedural Generation**

Adapting Models of Visual Aesthetics for Personalized Content Creation

Towards Player-Driven Procedural Content Generation

**Player Behaviour**

**Player Modelling**

Player Modelling

Defining Personas in Games Using Metrics

Experience-Driven Procedural Content Generation

Measuring the experience of digital game enjoyment

Modelling Player Experience for Content Creation

Play-Persona: Modelling Player Behaviour in Computer Games

**Racing Games**

Making Racing Fun Through Player Modelling and Track Evolution

Towards automatic personalised content creation for racing games

Computational Intelligence in Racing Games

**Track Analysis**

Towards a Generic Method of Evaluating Game Levels

**Analytics - Include**

Learning Analytics for Serious Games

# Tracking Real-Time User Experience (TRUE): A comprehensive instrumentation solution for complex systems

**Evolutionary Algorithm**

**Other**

The big five personality dimensions and job performance

**1.5 Other**

Setout to do

What I did it in

Original Plan

Mirrored Research/Development