ABSTRACT

One of aspects that influencing *online life simulation* application's realistic level is *avatar*'s profession, expertise and statistics change process. On that process there were created statistic composition, and in order to get realistic statistic composition we should created those statistic composition based upon *avatar*'s rules and restriction. Combinations and wide range searching domain on those process could be solved by *genetic algorithm*.

With *genetic algorithm*, *online life simulation* will be able to generate optimal solution which are represented by realistic *avatar*'s statistic composition, which means the composition that fulfilled most of real world's fact, rules and restriction.

Keywords : *online life simulation*, *avatar*, *genetic algorithm*