

Abstract

Final Project Seminar is one of many events that matter to student's graduation. Making schedule for the session by coordinator at related instance need much time. Besides that, the balance between intensiveness and fairness should be one concern, so that examiners don't have tight schedule, but total duration doesn't take too long. The method that used in this experiment is *Krill Herd* Algorithm. Krill herd is an algorithm that is nature-inspired in the appliance. In this work, basic Krill Herd is used for local search, along with basic genetic operator, and so elitism for global search. The performance results of proposed algorithm in effectiveness and efficiency shows that continuous-type of solving algorithm can solve discrete-type problem with some adjustments. In this research, generated schedule has close to minimum constraint, so it may use in real case. In future works may continue to more precise than this result with some premature convergence avoidance technique.

Keywords: Timetable Scheduling, Swarm Intelligence, Krill Herd