

Abstract

Scheduling problem is a complex problem and occurs repeatedly as the administrative activities of this faculty each semester. Scheduling is complex because there are many conditions of its linkage constraint that must be solved. There is a hard constraint which is a condition that must be fully solved, and soft constraint schedule into a schedule with a good measure of the extent to which a schedule to meet that become satisfaction factor of scheduling problem. On this research, scheduling problems solved by Asynchronous Island model Informed GA .

Telkom University has used Informed GA as it's scheduling method. But that metode has long time process problem. Because of the problem, we need optimise metode named Island model Informed GA that use some Island process. With that way, as a purpose to reach heap easier so the process run quicker.

Keyword: *Timetabling, Genetic Algorithm, Island model Genetic Algorithm, Hard Constraint and Soft Constraint*