



**<<boundary>>  
RESEARCHER**

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+Name: string  
+N\_report: integer

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- Accept\_NAME(): string  
+ Save\_report()  
+ Case\_task(): integer  
+ Case\_meth(): integer

**<<Entity>>  
TASK**

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+ type\_task: integer  
+param\_task: structure  
+param\_set: structure

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-Constr\_F(): structure  
-Constr\_Set(): structure  
+CalculateF(): float

**<<Entity>>  
METHOD**

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+ type\_meth: integer  
+param\_meth: structure  
+result: float massive  
+Trajectory: float massive  
+Ostanov: bool

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+Calculate\_GO(): float  
+Constr\_Trajectory: float massive  
+Ostanov\_Search(): Bool

**<<Entity>>  
EXPR\_PLAN**

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+Param: structure  
+Step\_N: float  
+Center\_n: float  
+File\_path: string  
+Rand: bool  
+Chang: integer

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Construct\_plan():structure

**<<Boundary>>  
REPORT**

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+Type\_rep: integer  
+param\_task: structure  
+param\_set: structure  
+ type\_meth: integer  
+param\_meth: structure  
+result: float massive  
+Trajectory: float massive  
+ type\_task: integer  
+file\_rep: file

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Create\_rep(): file  
Consider\_rez(): file

Method branch & boundary

Method Particle Swarm Optimization (PSO)

Genetic algorithm

Method  $\psi$ -modification

Local optimization

Consider

Task\_opt\_CONTROL

Task\_opt\_project

Revers\_task

Test\_function