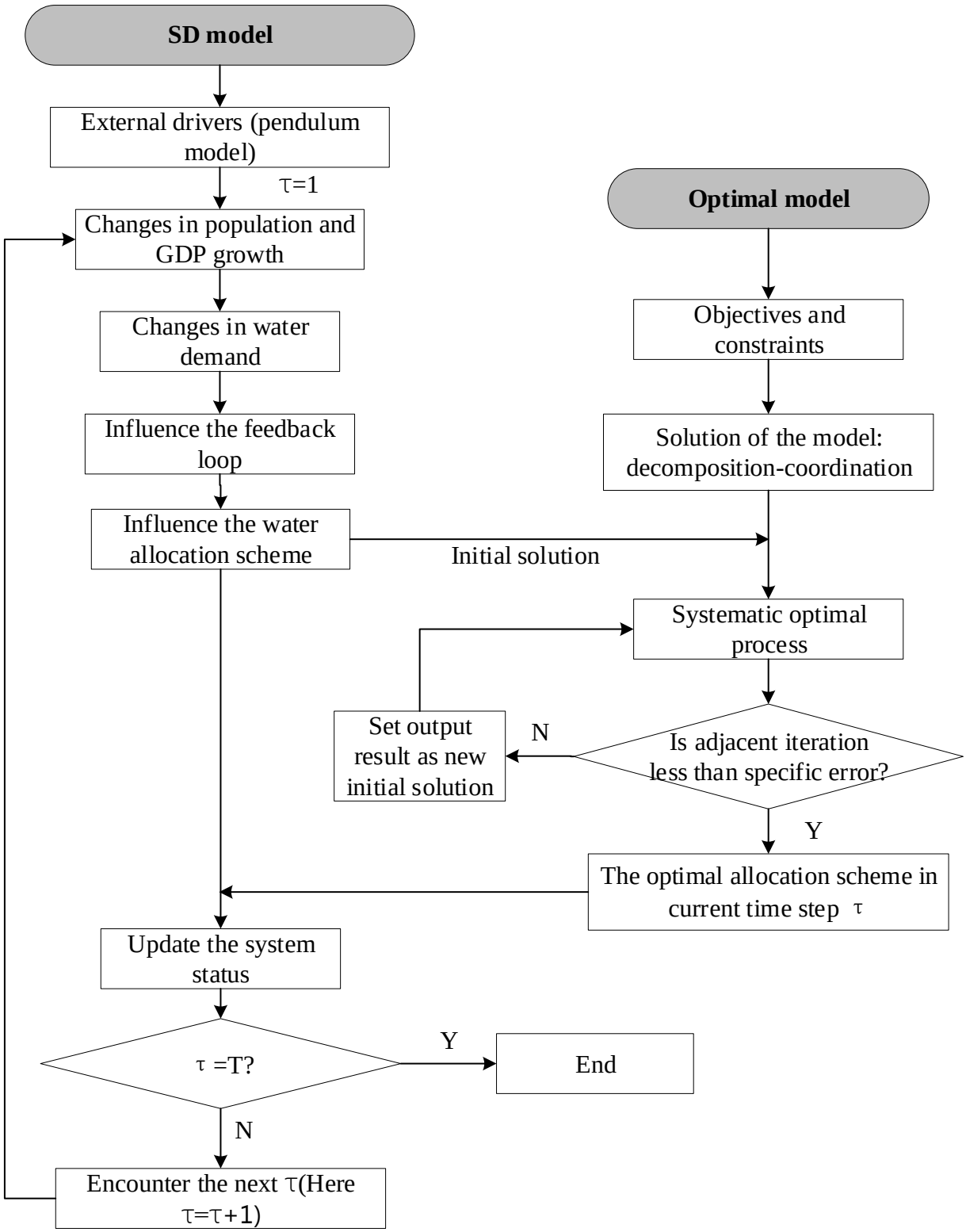
SD model
External drivers (pendulum model)
τ=1
Changes in population and GDP growth
Changes in water demand
Influence the feedback loop
Influence the water allocation scheme
Optimal model
Objectives and constraints
Solution of the model: decomposition-coordination
Initial solution
Systematic optimal process
Is adjacent iteration less than specific error?
N
Set output result as new initial solution
Y
The optimal allocation scheme in current time step τ
Update the system status
τ =T?
Y
End
N
Encounter the next τ(Here τ=τ+1)