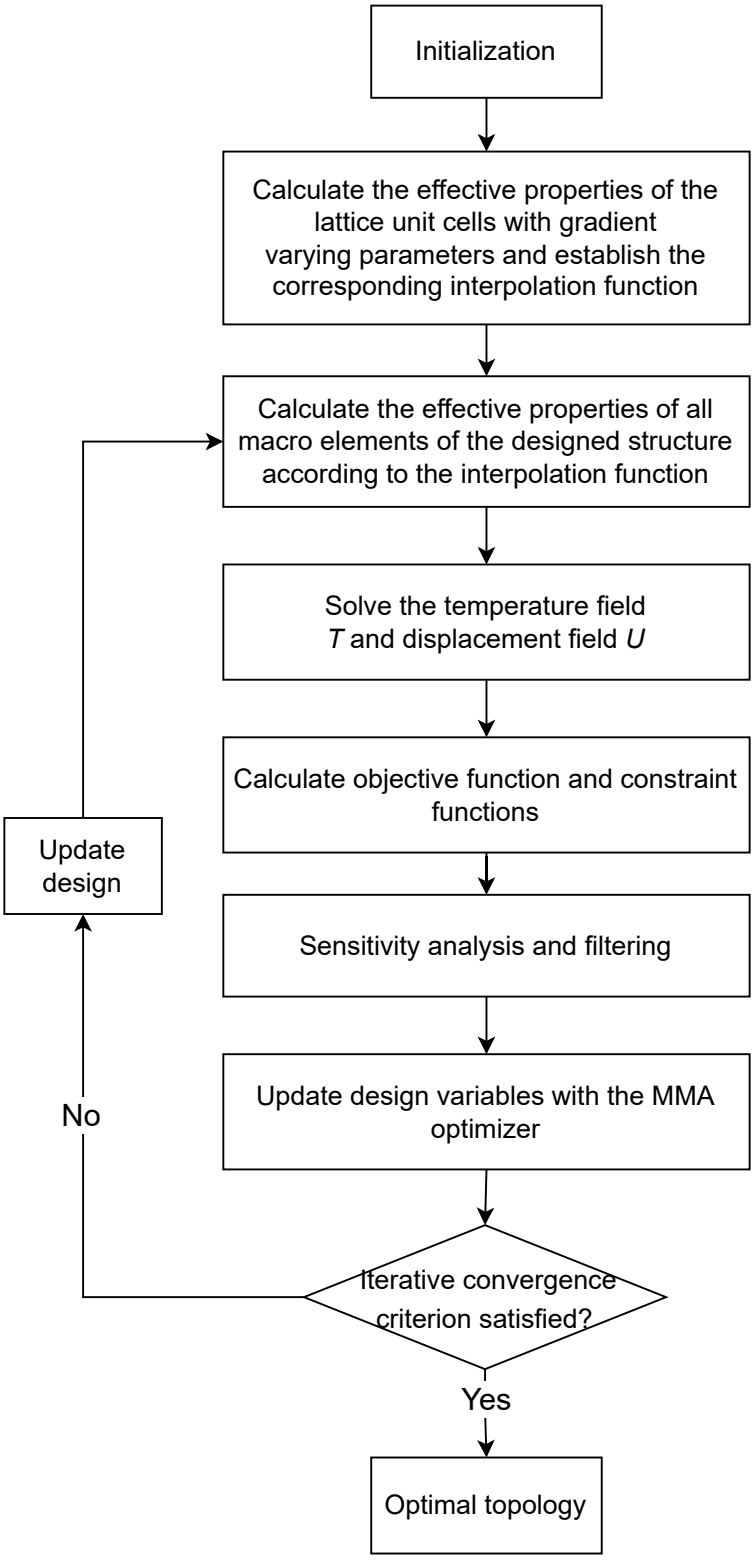
Initialization
Calculate the effective properties of the lattice unit cells with gradient varying parameters and establish the corresponding interpolation function
Calculate the effective properties of all macro elements of the designed structure according to the interpolation function
Solve the temperature field T and displacement field U
Calculate objective function and constraint functions
Sensitivity analysis and filtering
Update design variables with the MMA optimizer
Iterative convergence criterion satisfied?
No
Update design
Yes
Optimal topology