narallel cellular algorithmops noiseppe sup pre noiseppening Image low arring The parallel collular algorithm us used in image processing It works by whating each pixel band on its nighbors and replate is done in parallel across all fincely making the brocen gaster and more efficient some le expecially for larger images prosesses, motherway trial: 100 Over : sustant mutation, atuatural vassover : 9300 3) depution structure import numby as import mathlotlib. pyplot as per 200 p person sources rotor : And from aklearn. cluster import 12 means among som 3000 : 9900 des initialise-image (h, w):
return np. random: randint (0, 256, Cn, w), oltype-np-wints): acp: Mose involvedable knuars = knuars (n-cluster = n-s, vandom state=42)
labels = knuars (it fredict (image flatter () vestable (-1,1)) return datels restrope Cionage shape mare money: 930 des faralle algorithm (image, iterations): on Henrible quid = image. copy () GEP: Highly speriable for - in range (ifercuturis): quipt= np. array ((op. mean (image (max (0, x-1)x+2 max (0,9-1):4+17) for y un range (image. shaper-17)] for z in range image. shaper (0)) setwin graid