Chaotic key

Image padding depending on *t*1

SSS

*t*1

Modify the pixel range [0,250]

Pixel replacement using row and column indices

Linear independence using the first part

Parts

Image encryption for first part using shuffling

SSS

*t*2

**Phase 1**

**Phase 2**

**Phase 3**

Key

Lagrange interpolation

Lagrange interpolation

Decrypt the first part only

Linear Independence using the first part

Pixel replacement using row and column indices

Parts

Remove padding

Image

Shares