CMSE492 Seminar 25.05.2021 Task on RS Steganalysis

1. Consıder a 1x4 mask M=(0,1,1,0)
2. Consider the grayscale image, I, below having 2 rows and 8 columns:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Col1 | Col2 | Col3 | Col4 | Col5 | Col6 | Col7 | Col8 |
| Row1 | 19 | 225 | 118 | 101 | 125 | 231 | 218 | 221 |
| Row2 | 215 | 231 | 119 | 121 | 27 | 211 | 117 | 21 |

1. Specify 4 pixel groups, G11,..,G14, for M
2. Classify the groups as RM, SM, R-M, S-M, UM, U-M
3. Using 5% threshold for assessing RS-steganalysis statistical hypothesis (RM= R-M , SM=S-M) decide whether the image, I, has (not) a payload according to M
4. Your homework as a pdf file named “CMSE492 Sem3 Name Surname StID.pdf” shall be uploaded into your personal Teams chat with me latest by 8.00 am, 25.05.2021. It will be graded out of 100%.