**Table 1 comparative results for different Kernels**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Dataset | P: N | Proposed (Kp,Kc)2 | | Kernel=Kp\*Kc | | SVM (linear) | |
| AUC-ROC | AUC-PR | AUC-ROC | AUC-PR | AUC-ROC | AUC-PR |
| NR-  HCPI | 1:1 | **69.98± 5.7** | **77.3± 1.44** | 69.23 ± 5.86 | 75.37 ± 1.27 | 59.31 ± 7.61 | 63.83 ± 2.02 |
| 1:3 | **69.24±4.29** | **76.49±1.85** | 68.85 ± 4.46 | 58.22 ± 2.05 | 59.71 ± 4.6 | 46.67 ± 1.14 |
| 1:5 | **69.15± 4.2** | **61.6±3.44** | 68.61 ± 4.56 | 49.74 ± 2.41 | 61.34 ± 4.46 | 36.83 ± 3.1 |
| 1:7 | **68.1±3.61** | **49.86±2.01** | 68.8 ± 3.33 | 45.67 ± 3.47 | 61.62 ± 4.49 | 37.21 ± 4.02 |