21. BINSHA THOMAS

TEXTDOCUMENTPROTECTIONUSINGDIGITALWATERMARKINGALGORITHMS

ABSTRACT:

Inthecurrentera,informationsecurityisonitstoppriorityforallorganizations. Theindividuals,governmentofficials,andmilitarywiththerapiddevelopmentofInternet technologieslikeTheInternetofThings(IOT),bigdata,andcloudcomputingfacingdata securityproblems.Asthemassiverateofdatagrowth,itisachallengingtaskforthe researchersthathowtomanagethevastamountofdatasafelyandeffectivelywhile designingsmartcities.Ithasbeenquiteeasytoproduceanillegalcopyofdigital contents.Theverificationofdigitalcontentisoneofthemajorissuesbecausedigital contentsaregenerateddailyandsharedviatheinternet.Thelimitedtechniquesare availablefordocumentcopyrightprotection.However,mostoftheexistingtechniques producedistortionduringwatermarkinsertionorlackofcapacity.Inthesaid perspective,adigitalwatermarkingtechniqueisproposedfordocumentcopyright protectionandownershipverificationwiththehelpofdatamining.Thetechniquesof dataminingareappliedtofindsuitablepropertiesfromthedocumentforembedding watermark.Theproposedmodelprovidescopyrightprotectiontotextdocumentson localandcloudcomputingparadigm.Theproposedtechniqueattainedahigh-levelof imperceptibilitywherepeaksignaltonoiseratio(PSNR)valuesarebetween64.67%and 71.03%,andsimilarity(SIM)percentageisbetween99.92%and99.99%.Theproposed techniqueisrobustandresistsfromformattingattacksandcapacityoftheproposed techniqueisalsoimprovedascomparedtothepreviostechniques.