

Computation of Statistical Information in a Parallel Environment

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An important problem in image science is obtaining an objective assessment of an image's quality. One way to deal with this problem is to base the assessment on the amount of statistical information gathered from object and image ensembles. This task is computationally intensive and therefore needs high performance computing to carry out these complex mathematical equations. A parallel program has been created to run MATLAB scripts in a parallel environment. The results will be graphed and used to predict National Imagery Interpretability Rating Scale (NIIRS) value. This motivation of this project is based on showing that an NIIRS value can be given without the use of imagery analysts to assess the quality of an image.