UPDATES

* Previous submission had grammatical errors due to it being an early edit.
  + Machine synchronisation failure caused wrong version to be submitted.
  + Paper proof read and corrected grammatically.
* Paper title changed to reflect the metrics application more appropriately.
* Introduction updated to highlight the purpose of the metric.
  + Clarification the new metric is not an algorithm but a mechanism to analyse the efficiency in the algorithms.
* New section of Related Work added.
  + Highlights the limited amount of previous work in the area of magnitude based analysis of swarms.
  + Clarifies the types of metrics currently in used.
  + Highlights the work being built upon.
* Context and application of the metric has been revised and improved.
  + Application areas highlight use of metric and difference to using distance measures.