Student paper assignments (Two papers are required)  
6/30/2002 12:28 PM

1) Proposed measure paper  
   measure paper due date: Tuesday, July 17th  
   final date for request of approval of proposed measure: Wednesday, July 3

2) Analysis of a published article  
   analysis due date: Tuesday, July 23rd  
   final date for request for approval of article: Tuesday, July 9  
   due date for copy of article to be reviewed: Tuesday, July 9

Paper “solving some issue”  
   alternative to either paper  
   due date negotiable  
   approval date is same as paper it is replacing

Proposed measure paper details

This paper must describe a proposed software measure. The measure must be original and not a duplicate of a published measure or a measure being proposed by another student in the class. The measure should be intuitive but does not have to be empirically validated. The choice of measure must be approved by the instructor.

The proposed measure can be a variation on an existing measure. It could be a combination (tuple) of two or more values. The area of object-oriented software has many possible measures. Structural measures on different oo diagrams are possible. For example, few measures have been defined on use case diagrams, interaction diagrams, state diagrams, or even class diagrams. Other phases of development, such as testing, have documents that can be used as the basis of software measures.

The paper will be evaluated on completeness, preciseness, and conformity to the assignment. It will not be evaluated on the “usefulness” of the measure or on the length of the paper.

The paper must contain the following:

1) an introduction which includes an informal description of the measure, the purpose/goal of the measure, and intuition about the usefulness of the measure.

2) a specification of the measure using Kitchenham’s framework. The specification must be precise enough that someone (e.g. the instructor) could be able to apply the measure without any questions, etc.
3) an analysis of the proposed measure using Briand’s methodology. This must include a description of the System including E and R, a classification of the type of measure according to Briand, and a justification of which properties are satisfied and which are not.

Analysis paper details

This paper must describe and critically analyze a published article on software measurement. The article must not be assigned to another student in the class. The choice of article must be approved by the instructor.

The paper will be evaluated on completeness, preciseness, and conformity to the assignment. It will not be evaluated on the length of the paper.

The paper must contain the following:

1) an introduction to the article which includes a description of the article, the purpose/goal of the article, and contents of the article.

2) a analysis of the article. In particular, a comparison with any of the relevant articles that were covered in class.

3) an analysis using either the framework or Briand’s properties (if the article specifies/describes any measures)

3) a critical summary of the preciseness and usefulness of the article.

Alternative paper details

In class, I have mentioned a number of issues. As an alternative to either of the above papers, you may propose writing a “publication-quality” article resolving one of those issues. The format of the paper is less constrained but must include an organized discussion of the issue and well-reasoned resolution of that issue. I will help guide the organization and substance of the paper by reviewing drafts of the paper. This paper may become a jointly authored submission to a relevant conference or journal.