CISC 860* Topics in Programming Languages:
Structure and Design of Programming Languages

J.R. Cordy - Fall 2014

Annotated Bibliography on Programming Language Structure and Design

As part of this course, each member of the class will be expected to contribute to an annotated bibliography on the structure and design of programming languages. During the course of the term, each student will find, read and submit a short summary and evaluation of at least six (6) articles, books or papers of significant interest in the area of programming language structure and design, two of relevance to each unit of the course.

An oral presentation of approximately 10 minutes length (5 minutes plus 5 minutes discussion) will be made for <u>one</u> of your two submissions at the end of each unit, and a class will be set aside for this purpose. The quality of bibliography contributions will form a part of your mark on the course.

It is suggested that contributions to the bibliography be between one and two pages (single spaced, or up to three pages double spaced) in length. Each contribution should begin with the full reference information for the article, including the author's names, the title of the article, the name and issue of the journal or conference in which the article first appeared (if applicable) and the original publication date. It should summarize the ideas presented in the work reviewed, outline the important points, and consider the relevance of the work to the evolution and development of programming languages. Examples are online on the course website.

In order to assure the quality and appropriateness of papers reviewed and to avoid multiple reviews of papers, titles of proposed articles should be submitted in advance for approval by the editor (me). Articles must be approved by email to the editor at least one week before the contribution is submitted.

This year's contributions are split into three assignments matching the first three sections of the course. The tentative schedule is as follows:

Assign #1 (due Tue Sep 7)
> First two contributions, papers from the (more recent) *History of Programming Languages.* The presentation should be a proposed new Milestone in the history of programming languages, chosen to provoke discussion.

Assign #2 (due Tue Oct 28)
> Second two contributions, papers about language *Design Issues.*
> The presentation should highlight the design issues raised by the reviewed papers to provoke open discussion.

Assign #3 (due Tue Nov 18)
> Third two contributions, papers on *Specific Language Case Studies.*
> The presentation should introduce us to a new and different programming language, and relate it to its goals and general design principles. You may wish to choose two different papers about the same language in this case.

You can find examples of old bibliography entries online on the course website:
http://www.cs.queensu.ca/~cordy/cisc860/