



St. Louis, Missouri USA February 23-27, 2005

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Paper293: Design Patterns for Parsing

Review Summary

Anonymous Reviewer Code	Technical	Organization	Originality	Significance	Overall Score
A	4	4	4	4	4
B	2	5	2	2	3
C	4	5	4	4	4
D	4	4	4	4	4
E	4	4	3	4	4
Avg. of 5 Revs.	3.6	4.4	3.4	3.6	3.8

Author-Recommended Subjects: CS1/2, Formal Methods/Theory, Object-Oriented Issues, Programming Languages/Paradigms, Software Engineering, Pedagogy

Reviews from Individual Reviewers Follow

Reviewer-Recommended Subjects:	Algorithms CS1/2 Object-Oriented Issues	
Technical Score:	4	Comments: Good paper and some goode ideas.
Organization Score:	4	Comments: From a technical writing viewpoint, this is well-written.
Originality Score:	4	Comments: I have not seen this approach; but that does not imply that this is original. It is a good approach.
Significance Score:	4	Comments: Well-written.

Overall Score:	4	Comments: Nice approach - tend to accept this paper.
Oral Presentation Comments: Elaborate upon how to use this in the classroom.		

Reviewer-Recommended Subjects:		Algorithms CS1/2 Object-Oriented Issues Programming Languages/Paradigms
Technical Score:	2	Comments: This paper proposes a case study to be taught in a CS2 OOP-first course. Whilst the case study is a nice one, it requires too many concepts on grammar and parsing to be comfortably taught in a CS2. What concepts are omitted instead?
Organization Score:	5	Comments: The paper is correctly organized and written. Maybe the title could contain a reference to the OOP approach, and maybe other to CS2: "Design Patterns for Parsing in an object model" or "Design Patterns for Parsing. An OO formulation".
Originality Score:	2	Comments: The authors proposal is a nice one, as told already. Nevertheless, its originality is rather limited in my opinion.
Significance Score:	2	Comments: In my opinion, the case study addressed in this paper is too specific (and lateral) to be relevant.
Overall Score:	3	Comments: My confidence in the paper's subject is low because I am unsure of its benefits.
Oral Presentation Comments: None.		

Reviewer-Recommended Subjects:		Algorithms Formal Methods/Theory Object-Oriented Issues Programming Languages/Paradigms Software Engineering Pedagogy
Technical Score:	4	Comments: Good connection between software engineering design patterns and approaches to teaching a classical compiler course. The proposed paradigm is quite detailed, but appears to be sound. The paper does not discuss impact on student comprehension of the subject matter (compiling) of using this approach.
Organization Score:	5	Comments: Well written presentation of the major ideas along with a small example.
Originality Score:	4	Comments: The paper combines ideas from classical computer science (parsing) and software engineering (O-O and patterns).
Significance Score:	4	Comments: The paper presents an innovative use of patterns to provide a general solution to a common problem in parsing.
Overall Score:	4	Comments: Well written paper that details a technical solution to a parsing problem. The technical depth appears higher than typical SIGCSE papers, and may require expertise in design patterns and

		compiling that is more likely to be found in other audiences such as OOPSLA. The paper gives no discussion of outcomes from using this approach in a course.
Oral Presentation Comments: Discuss educational outcomes for students.		

Reviewer-Recommended Subjects:	CS1/2 Object-Oriented Issues	
Technical Score:	4	Comments: Quality of the paper is good. I like the design patterns chosen for parsing. However, one drawback is that the number of classes and objects created is quite large.
Organization Score:	4	Comments: Good organization and writing. Although, I think it can used some work in making things clearer. I could not follow some descriptions b/c of the complexity it was presenting.
Originality Score:	4	Comments: Application of design patters to parsing.
Significance Score:	4	Comments: The application of design patterns to parsing is very good. However, the separate claim that it can be used in a CS2 course is not sufficiently supported with evidence. I think this discussion should not be part of the paper.
Overall Score:	4	Comments: Good paper. It can use clearer language to describe some complex parts.
Oral Presentation Comments: it will be good to show the extension to the source code when adding additional rules to a grammar.		

Reviewer-Recommended Subjects:	Object-Oriented Issues Programming Languages/Paradigms	
Technical Score:	4	Comments: n/a
Organization Score:	4	Comments: Clear and good organization.
Originality Score:	3	Comments: n/a
Significance Score:	4	Comments: Of potential interest to CS1/2 educators.
Overall Score:	4	Comments: n/a
Oral Presentation Comments: Focus more on how your work can be applied in schools which don't use an objects-first curriculum in CS.		

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