

Widget: My Publications

Description

A javascript widget that scholars can embed in their own pages to list their publications.

Example

My Publications

Shieber, Stuart

Publication List

Year	Type	Title
1988	Conference Paper	A uniform architecture for parsing and generation
1987	Journal Article	An algorithm for generating quantifier scopings
1986	Conference Paper	A simple reconstruction of GPSG
1985	Journal Article	Criteria for Designing Computer Facilities for Linguistics

Details

An algorithm for generating quantifier scopings

Jerry Hobbs and Stuart M. Shieber. An algorithm for generating quantifier 63, January-June 1987.

Abstract:
The syntactic structure of a sentence often manifests quite clearly the pre grammatical subordination. But scope dependencies are not so transparent.

Copy and paste the following javascript snippet into your html page:

<SCRIPT charset="utf-8" id="dash-widget" type="text/javascript" src="http://dash.harvard.edu/rest/static/javascript/author-pub-widget.js?author=c9e989d522c00c122594ca888fb74c44">

Preview

Publication List

| Year | Type | Title |
|------|----------------------|---|
| 2012 | Journal Article | Plan Recognition in Exploratory Domains |
| 2012 | Commentary or Review | Statement of Stuart M. Shieber before the Committee on Science, Space, and Technology Subcommi... |
| 2012 | Journal Article | The Case for the Journal's Use of a CC-BY License |
| 2011 | Commentary or Review | Inverting the Turing Test [review of The Most Human Human by Brian Christian] |
| 2011 | Monograph or Book | Neo-Riemannian Cycle Detection with Weighted Finite-State Transducers |
| 2010 | Journal Article | Agent Decision-Making in Open Mixed Networks |
| 2010 | Journal Article | Recognizing Uncertainty in Speech |
| 2010 | Conference Paper | Bayesian Synchronous Tree-Substitution Grammar Induction and Its Application to Sentence Compr... |
| 2010 | Journal Article | Complexity, Parsing, and Factorization of Tree-Local Multi-Component Tree-Adjoining Grammar |

Details

Plan Recognition in Exploratory Domains

Gal, Ya'akov, Swapna Reddy, Stuart M. Shieber, Andee Rubin, and Barbara J. Grosz. 2012. Plan recognition in exploratory domains. Artificial Intelligence 176(1): 2270-2290.

Abstract:
This paper describes a challenging plan recognition problem that arises in environments in which agents engage widely in exploratory behavior, and presents new algorithms for effective plan recognition in such settings. In exploratory domains, agents' actions map onto logs of behavior that include switching between activities, extraneous actions, and mistakes. Flexible pedagogical software, such as the application considered in this paper for statistics education, is a paradigmatic example of such domains, but many other settings exhibit similar characteristics. The paper establishes the task of plan recognition in exploratory domains to be NP-hard and compares several approaches for recognizing plans in these domains, including new heuristic methods that vary the extent to which they employ backtracking, as well as a reduction to constraint-satisfaction problems. The algorithms were empirically evaluated on people's interaction with flexible, open-ended statistics education software used in schools. Data was collected from adults using the software in a lab setting as well as middle school students using the software in the classroom. The constraint satisfaction approaches were complete, but were an order of magnitude slower than the heuristic approaches. In addition, the heuristic approaches were able to perform within 4% of the constraint satisfaction approaches on student data from the classroom, which reflects the intended user population of the software. These results demonstrate that the heuristic approaches offer a good balance between performance and computation time when recognizing people's activities in the pedagogical domain of interest.

JSON data store

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