TAPD 2000

2nd Workshop on 'Tabulation in Parsing and Deduction'

September 19-21, 2000 Vigo, Spain

Sponsored by University of Vigo with the support of Caixavigo e Ourense & Logic Programing Associates

Following TAPD'98 in Paris, next TAPD event will be held in Vigo (Spain), in September, 2000. The conference will be previous to SEPLN 2000 (http://coleweb.dc.fi.udc.es/sepln2000/), the conference of the Spanish Society for Natural Language Processing.

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Univ. NY at Stony Brook

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MOTIVATIONS:

Tabulation techniques are becoming a common way to deal with highly redundant computations occurring, for instance, in Natural Language Processing, Logic Programming, Deductive Databases, or Abstract Interpretation, and related to phenomena such as ambiguity, non-determinism or domain ordering.

Different approaches, including for example Chart Parsing, Magic-Set rewriting, Memoization, and Dynamic Programming, have been proposed whose key idea is to keep traces of computations to achieve computation sharing and loop detection.

The first objective of this workshop is to compare and discuss these different approaches. The second objective is to present tabulation and tabular systems to potential users in different application areas such as natural language processing, picture parsing, genome analysis, or complete deduction techniques.

TOPICS: (not exclusive)

- Tabulation Techniques: Chart Parsing, Tabling, Memoization, Dynamic Programming, Magic Set, Generic Fix-Point Algorithms
- Applications: Parsing, Generation, Logic Programming, Deductive Databases, Abstract Interpretation, Deduction in Knowledge Bases, Theorem Proving
- Static Analysis: Improving tabular evaluation
- Parsing or resolution strategies.
- Efficiency issues: Dealing with large tables (structure sharing, term indexing), Execution models, Exploiting the domain ordering (subsumption).
- Shared structures (parse or proof forest): Formal analysis, representation and processing.

INVITED SPEAKERS:

Bharat Jayaraman Univ. NY at Buffalo
I.V. Ramakrishnan Univ. NY at Stony Brook

SUBMISSION PROCEDURE:

Authors are invited to submit before April 28 a 4-page position paper or abstract concerning a theoretical contribution or a system to be presented. Due to tight time constraints, submission and reviewing will be handled exclusively electronically (LaTeX, PostScript, dvi or ascii format). Submission should include the title, authors' names, affiliations, addresses, and e-mail; and must be sent to David S. Warren (warren@cs.sunysb.edu) in gziped encoded postscript.

SCHEDULE:

Submission of contributions:	April 28, 2000
Notification of acceptance:	June 1, 2000
Final versions due:	June 30, 2000

PUBLICATION:

Papers accepted by the Program Committee must be presented at the conference and will appear in a proceedings volume. The format for camera-ready manuscripts will be available from the web page of the event.

LOCATION:

Auditorio del Centro Cultural Caixavigo e Ourense
Marqués de Valladares
Vigo, Spain

FURTHER INFORMATION:

For further details consult http://coleweb.dc.fi.udc.es/tapd2000/, or contact

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