Bibliography of Myra Spiliopoulou

This is my list of publications. It is irregularly updated, as new papers get published.

Web Querying and Mining

[Berendt and Spiliopoulou, 1999]
Bettina Berendt and Myra Spiliopoulou. Analysing navigation behaviour in web sites integrating multiple information systems. submitted, June 1999. (BibTeX Entry)

[Roddick and Spiliopoulou, 1999]
John F. Roddick and Myra Spiliopoulou. A bibliography of temporal, spatial and spatio-temporal data mining research. *SIGKDD Explorations*, 1(1), May 1999. (BibTeX Entry)

[Spiliopoulou, 1999a]
Myra Spiliopoulou. The laborious way from data mining to web mining. *Int. Journal of Comp. Sys., Sci. & Eng., Special Issue on ''Semantics of the Web''*, Mar. 1999. (BibTeX Entry)

> The web is a large source of information that can be turned into knowledge. Part of this knowledge concerns the usage of the web itself and is invaluable to the organization of web sites that meet their purposes and prevent disorientation. Data mining is already being used to throw light in various aspects of web utilization. For one major aspect, the discovery of navigation patterns, we show that a new mining model is necessary. We formalize the notion of navigation pattern, introduce a model for navigation pattern discovery by extending the classical model of association rules' discovery, and establish the processing framework of this model. Conventional tools for association rule discovery and for sequence analysis cannot deal with this discovery problem. However, we show how they can be used as preprocessors to reduce the search space before the actual mining phase.

[Spiliopoulou, 1999b]
Myra Spiliopoulou. The notion of ''interesting rule'' in sequence mining. accepted as poster in PKDD'99, May 1999. (BibTeX Entry)

[Spiliopoulou and Faulstich, 1999]
Myra Spiliopoulou and Lukas C. Faulstich. WUM: A Tool for Web Utilization Analysis. In *extended version of Proc. EDBT Workshop WebDB'98*, LNCS 1590. Springer Verlag, 1999. (BibTeX Entry)

[Spiliopoulou et al., 1999a]
Myra Spiliopoulou, Lukas Faulstich, C., and Karsten Winkler. A Data Miner analyzing the Navigational Behaviour of Web Users. In *Proc. of the Workshop on Machine Learning in User Modelling of the ACAI'99 Int. Conf.*, Creta, Greece, July 1999. (BibTeX Entry)

[Spiliopoulou et al., 1999b]

Myra Spiliopoulou, Carsten Pohle, and Lukas C. Faulstich. Improving the effectiveness of a web site with web usage mining. In *Proc. of KDD Workshop WEBKDD'99*, San Diego, CA, Aug. 1999. to appear. (BibTeX Entry)

[Srinivasa and Spiliopoulou, 1999a]
Srinath Srinivasa and Myra Spiliopoulou. Mining "consistent" relationship structures. In *Poster Proceedings of WWW8*, Toronto, Canada, May 1999. (BibTeX Entry)

[Srinivasa and Spiliopoulou, 1999b]
Srinath Srinivasa and Myra Spiliopoulou. Modeling interactions based on consistent patterns. In *Proc. CoopIS'99*, Sept. 1999. to appear. (BibTeX Entry)

[Spiliopoulou and Faulstich, 1998]
Myra Spiliopoulou and Lukas C. Faulstich. WUM: A Tool for Web Utilization Analysis. In *EDBT Workshop WebDB'98*, Valencia, Spain, Mar. 1998. Springer Verlag. extended version in LNCS 1590. (BibTeX Entry)

[Spiliopoulou et al., 1998]
Myra Spiliopoulou, Alexis Kalousis, Lukas C. Faulstich, and Theoharis Theoharis. NOEMON: An intelligent assistant for classifier selection. In *FGML'98 (Treffen der GI-Fachgruppe ''Maschinelles Lernen''*, Aug. 1998. (BibTeX Entry)

Integrating Information Systems

Architectural Issues

[Faulstich and Spiliopoulou, 1998]
Lukas C. Faulstich and Myra Spiliopoulou. Building HyperView wrappers for publisher web-sites. In *2nd European Conf. on Digital Libraries (ECDL'98)*, LNCS 1513, Heraclion, Greece, Sept. 1998. Springer Verlag. Extended version to appear in the IJODL Special Issue ''In the Tradition of Alexandrian Scholars''. (BibTeX Entry)

> Electronic journals are becoming a major source of scientific information. Researchers interested only in certain topics do not have time to scan all possibly relevant journals on a regular basis. A digital library can assist them by providing a uniform, search-able interface for electronic journals. To this purpose, a catalogue of metadata on the available journals such as authors and titles of articles must be established by the digital library. If there is no cooperation with journal publishers, this metadata must be extracted from the publishers' Web Sites, overcoming the intrinsic heterogeneity problems. Within the framework of the ongoing Natural Sciences Digital Library project at the Free University of Berlin, we have designed a wrapper-mediator mechanism that copes with the heterogeneity problems of automatic metadata acquisition. It is based on our generic HyperView methodology for integration of Web Sites. From this methodology it inherits two elegant and effective features. First, the structure of the publisher site is specified with abstract graph-schemata, instead of

being hard-coded in scripts for data acquisition. Second, a powerful view concept based on declarative graph-transformation rules is used for information extraction.

[Naumann et al., 1998]
Felix Naumann, Johann Christoph Freytag, and Myra Spiliopoulou. Quality-driven source selection using data envelopment analysis. In *The 1998 Conference on Information Quality*, MIT, MA, Oct. 1998. (BibTeX Entry)

[Faulstich et al., 1997]
Lukas Faulstich, C., Myra Spiliopoulou, and Volker Linnemann. WIND: A Warehouse for INternet Data. In *BNCOD'97*, LNCS 1271, London, UK, July 1997. Springer Verlag. (BibTeX Entry)

[Spiliopoulou, 1996]
Myra Spiliopoulou. A calibration mechanism identifying the optimization technique of a multidatabase participant. In *PDCS'96*, Dijon, France, Sept. 1996. (BibTeX Entry)

Environment

[Baron et al., 1998]
Steffan Baron, Myra Spiliopoulou, and Lukas Faulstich. Eine integrierte Anfrageumgebung für umweltbezogene Objekte und Dokumente. In *12th Int. Symposium ''Umweltinformatik'98''*, Bremen, Germany, Sept. 1998. (BibTeX Entry)

[Röttgers et al., 1997]
Jan Röttgers, Lukas Faulstich, and Myra Spiliopoulou. Ein Verweis- und Kommunikations-Service für den betrieblichen Umweltschutz. In *BUIS'97*, pages 53-65, Berlin, Germany, Mar. 1997. Metropolis-Verlag. on german. (BibTeX Entry)

[Spiliopoulou et al., 1997]
Myra Spiliopoulou, Lukas Faulstich, and Jan Röttgers. Ein Konzept für die integrierte Recherche in unabhängigen Umweltinformationssystemen. In *11th Int. Symposium ''Umweltinformatik''*, pages 327-336, Strassburg, France, Sept. 1997. (BibTeX Entry)

[Georgiadis and Spiliopoulou, 1995]
Panagiotis Georgiadis and Myra Spiliopoulou. Design of and environmental information system: The Greek case. In N.M. Avouris and B. Page, editors, *Environmental Informatics*, pages 337-354. Kluwer Academic Publishers, 1995. (BibTeX Entry)

Query Optimization in Parallel Databases

[Spiliopoulou and Freytag, 1996]
Myra Spiliopoulou and Johann Christoph Freytag. Modelling resource utilization in pipelined query execution. In *Euro-Par'96*, LNCS 1124, pages 872-880, Lyon, France, Aug. 1996. Springer Verlag. (BibTeX Entry)

[Spiliopoulou et al., 1996a]
Myra Spiliopoulou, Michalis Hatzopoulos, and Yannis Cotronis. Parallel optimization of large join queries with set operators and aggregates in a parallel environment supporting pipeline. *IEEE Trans. on Knowledge and Data Engineering*, 8(3):429-445, 1996. (BibTeX Entry)

[Spiliopoulou et al., 1996b]
Myra Spiliopoulou, Michalis Hatzopoulos, and Costas Vassilakis. A cost model for the estimation of query execution time in a parallel environment supporting pipeline. *Computers & Artificial Intelligence*, 14(1):341-368, 1996. (BibTeX Entry)

[Stillger and Spiliopoulou, 1996]
Michael Stillger and Myra Spiliopoulou. Genetic programming in database query optimization. In *Proc. of Genetic Programming Conf. '96*, pages 388-393, Stanford, CA, July 1996. (BibTeX Entry)

[Spiliopoulou et al., 1993a]
Myra Spiliopoulou, Yannis Cotronis, and Michalis Hatzopoulos. Parallel optimisation of join queries using an enhanced iterative improvement technique. In *PARLE Conf. 1993, Poster Session*, pages 716-719, Munich, Germany, 1993. (BibTeX Entry)

[Spiliopoulou et al., 1993b]
Myra Spiliopoulou, Michalis Hatzopoulos, and Costas Vassilakis. Parallel optimization of join queries using a technique of exhaustive nature. *Computers & Artificial Intelligence*, 12(2):145-166, 1993. (BibTeX Entry)

[Spiliopoulou and Hatzopoulos, 1992]
Myra Spiliopoulou and Michalis Hatzopoulos. Translation of SQL queries into a graph structure: Query transformations and pre-optimisation issues in a pipeline multiprocessor environment. *Information Systems*, 17(2):161-170, 1992. (BibTeX Entry)

[Spiliopoulou et al., 1992]
Myra Spiliopoulou, Michalis Hatzopoulos, and Costas Vassilakis. Using parallelism and pipeline for the optimisation of join queries. In *PARLE Conf. 1992*, pages 279-294, Paris, France, 1992. (BibTeX Entry)

Multimedia and Hypermedia

[Gyftodimos et al., 1995]
G. Gyftodimos, D. Rigopoulos, and M. Spiliopoulou. Exploring archaeological information through an open hypermedia system. In *Computer Applications and Quantitative Methods in Archaeology (CAA) '95*, Leiden, Belgium, 1995. ''Analecta Praehistorica Leidensia'', Institute of Prehistory, University of Leiden. (BibTeX Entry)

[Spiliopoulou et al., 1995a]
Myra Spiliopoulou, Yannis Cotronis, and Michael Hatzopoulos. Query processing for multimedia applications on optical media. *Information Processing Letters*, 53:301-306, 1995. (BibTeX Entry)

[Spiliopoulou et al., 1995b]
Myra Spiliopoulou, Michael Hatzopoulos, Franz Pentaris, Lambros Ntasios, and Fivos Vilanakis. A query processor operating over low resources on optical media. In *11th ICAST*, pages 48-55, Chicago, IL, 1995. (BibTeX Entry)

[Tsalgatidou et al., 1995]
Afrodite Tsalgatidou, Costas Halatsis, Myra Spiliopoulou, and Michael Hatzopoulos. A multimedia title development environment (MTDE). *Information Processing and Management*, 31, 1995. (BibTeX Entry)

[Tsalgatidou et al., 1994]
Afrodite Tsalgatidou, Myra Spiliopoulou, Katerina Apostolaki, Irena Roussou, and Michael Hatzopoulos. A hypermedia tourist guide. In *ENTER'94*, pages 72-79, Innsbruck, Austria, 1994. (BibTeX Entry)

[Gyftodimos et al., 1993]
George Gyftodimos, Chronis Kynigos, and Myra Spiliopoulou. Expressing ideas through sound manipulation with Logo. In *4th European Logo Conference (EuroLogo)*, volume 2, pages 55-66, Athens, Greece, 1993. (BibTeX Entry)

[Gyftodimos and Spiliopoulou, 1992]
George Gyftodimos and Myra Spiliopoulou. Knowledge construction and acquisition in a hypermedia environment customized for learning purposes. In Stella Vosniadou, editor, *NATO ASI Series, 1992*. Springer Verlag, 1992. (BibTeX Entry)

Last update: See date of last publication; this file is created automatically.

This page is maintained by Myra Spiliopoulou