

References

- Barbut, M., and Monjardet, B., 1970, *Ordre et Classification. Algèbre et Combinatoire, Tome II.* Hachette, Paris.
- Birkhoff , B., Lattice Theory, volume 25. *American Mathematical Society Colloquium Publ.*, Providence, revised edition, 1973.
- Blake, C.L., and Merz, C.J., 1998, UCI Repository of machine learning databases [<http://www.ics.uci.edu/~mlearn/MLRepository.html>]. Irvine, CA: University of California, Department of Information and Computer Science.
- Bordat, J.P., 1986, Calcul pratique du treillis de Galois d'une correspondance. *Math. Sci. Hum.*, **96**, pp. 31–47.
- Cameron, P.J., 1996, *Combinatorics: topics, techniques, algorithms*. University of Cambridge Press.
- Carpineto, C., and Romano, G., 1993, GALOIS: an order-theoretic approach to conceptual clustering. *Machine Learning, proceedings of the tenth International conference, Amherst, MA*, Morgan Kaufmann Publishers, pp. 33-40.
- Carpineto, C., and Romano, G., 1996, Information retrieval through hybrid navigation of lattice representations. *International Journal of Human-Computer Studies*, **45**, pp. 553-578.
- Carpineto, C., and Romano, G., 1996, A lattice conceptual clustering system and its application to browsing retrieval. *Machine Learning Journal*, **24**, pp. 95-122.
- Chein, M., 1969, Algorithme de recherche des sous-matrices premières d'une matrice. *Bull. Math. Soc. Sci. Math.*, R.S. Roumanie, **13**, pp. 21–25.
- Clark, C.W., 1931, *Elementary mathematical analysis, second edition*, Brooks/Cole Publishing Company.
- Cole, R., and Eklund, P., 2001, Browsing semi-structured web texts using formal concept analysis. *Proceedings of ICCS-2001 International workshop on concept lattices-based theory, methods, and tools for knowledge discovery in databases (CLKDD'01)*, Stanford University, Palo Alto, Springer, pp. 319-332.
- Cole, R., and Stumme, G., 2000, CEM: A Conceptual Email Manager. *Proceedings of the 8th International Conference on Conceptual Structures, ICCS'2000, Springer Verlag, 2000, LNCS 1867*, pp. 438-452.
- Dowling, C.E., 1993, On the irredundant generation of knowledge spaces. *J. Math. Psych.*, **37**(1), pp. 49-62.
- Duquenne, V., 1999, Latical structures in data structures in data analysis. *Theoretical Computer Science*, **217**(2), pp. 407-436.
- Duquenne, V., Chabert, C., Cherfouh, A., Delebar, J.M., Doyen, A., and Pickering, D., 2001, Structuration of Phenotypes / Genotypes through Galois Lattices and Implications. *Proceeding of the ICCS-2001 International workshop on concept lattices-*

based theory, methods, and tools for knowledge discovery in databases (CLKDD'01), Stanford University, Palo Alto, Springer, pp. 21-32.

Fisher, D., 1987, Knowledge acquisition via incremental conceptual clustering. *Machine Learning*, **2**, pp. 139-172.

Ganter, B., 1984, Two Basic Algorithms in Concept Analysis, FB4-Preprint No. 831, TH Darmstadt and supplemented with construction of the cover relationship via binary search.

Ganter, B., Attribute exploration with background knowledge. *Theoretical Computer Science*, **217** (1999), 215-233.

Ganter, B., and Wille, R., 1999, *Formal Concept Analysis, Mathematical Foundations*, Berlin, Springer-Verlag.

Ganter, B., Rindfrey, K., and Skorsky, M., 1986, Software for formal concept analysis. In *Classification as a tool of research*, Elsevier Science.

Godin, R., and Missaoui, R., 1994. An Incremental Concept Formation Approach for Learning from Databases. *Theoretical Computer Science, Special Issue on Formal Methods in Databases and Software Engineering*, **133**(2), pp. 387-419.

Godin, R., Missaoui, R., and Alaoui, H., 1991, Learning Algorithms using a Galois Lattice Structure. In *Proceedings of International Conference on Tools with Artificial Intelligence (ICTAI), San Jose, CA, November*, pp. 22-29.

Godin, R., Mineau, G. W., and Missaoui, R., 1995, Incremental structuring of knowledge bases. In *Proceedings of the first International Symposium on Knowledge Retrieval, Use and Storage for Efficiency (KRUSE'95), Santa Cruz, CA, USA*, pp. 179-198.

Godin, R., Missaoui, R., and Alaoui, H., 1995, Incremental concept formation algorithms based on Galois lattices. *Computation Intelligence*, **11**(2), pp. 246-267.

Goldberg, L.A., 1993, *Efficient Algorithms for Listing Combinatorial Structures*. Cambridge University Press.

Gratzer, G., 1971, *Lattice Theory: First Concepts and Distributive Lattices*, W.H. Freeman & Co.

Guénoche, A., 1990, Construction du treillis de Galois d'une relation binaire. *Math. Inf. Sci. Hum.*, **109**, pp 41-53.

Hereth, J., and Stumme, G., 2001, Reverse pivoting in conceptual information systems. *Proceedings of the ICCS-2001 International workshop on concept lattices-based theory, methods, and tools for knowledge discovery in databases (CLKDD'01), Stanford University, Palo Alto, Springer*, pp. 202-215.

Johnson, D.S., Yannakakis, M., and Papadimitriou, C.H., 1988, On generating all maximal independent sets. *Inf. Proc. Let.*, **27**, pp 119-123.

Kourie, D.G., and Oosthuizen, G.D., 1998. Lattices in machine learning: complexity issues. *Acta Informatica*, **35**, pp. 269-292.

Kuznetsov, S.O., 1989, Interpretation on Graphs and Complexity Characteristics of a Search for Specific Patterns, *Nauch. Tekh. Inf., Ser. 2*, no. **1**, pp. 23–28.

Kuznetsov, S.O., 1993, A fast algorithm for computing all intersections of objects in a finite semi-lattice. *Automatic Documentation and Mathematical Linguistics*, **27**(5), pp. 11–21.

Kuznetsov, S.O., 2001, On computing the size of a lattice and related decision problems.

Order, **18**(4), pp. 13-21.

Kuznetsov, S.O., and Obiedkov, S.A., 2001, Comparing Performance of Algorithms for Generating Concept Lattices. *Proceedings of ICCS-2001 International workshop on concept lattices-based theory, methods, and tools for knowledge discovery in databases (CLKDD'01)*, Stanford University, Palo Alto, Springer Verlag, pp. 35-47.

Kuznetsov, S.O., and Obiedkov, S.A., 2002, Comparing performance of algorithms for generating concept lattices. In *Journal of Experimental & Theoretical Artificial Intelligence, Special issue on Concept Lattice-based theory, methods and tools for knowledge Discovery in Databases*, Volume **14**, number **2/3** April-September 2002, pp. 189-216.

Lindig, C., Algorithmen zur begriffsanalyse und ihre anwendung bei softwarebibliotheken, (Dr.-Ing.) Dissertation, Techn. Univ. Braunschweig.

Lindig, C., Fast Concept Analysis. In Gerhard Stumme, editors, *Working with Conceptual Structures - Contributions to ICCS 2000*, Shaker Verlag, Aachen, Germany, 2000. (<http://www.eecs.harvard.edu/~lindig/papers/>)

Mephu Nguifo, E., and Njiwoua, P., 2001, IGLUE: a lattice-based constructive induction system. *Intelligent Data Analysis*, **5**(1), pp. 73-91.

Norris, E.M., 1978, An algorithm for computing the maximal rectangles in a binary relation. *Revue Roumaine de Mathématiques Pures et Appliquées*, **23**(2), pp. 243–250.

Nourine, L., and Raynaud, O., 1999, A fast algorithm for building lattices. *Information Processing Letters*, **71**, pp. 199-204.

Nourine, L., and Raynaud, O., A fast incremental algorithm for building lattices. In *Journal of Experimental & Theoretical Artificial Intelligence, Special issue on Concept Lattice-based theory, methods and tools for knowledge Discovery in Databases*, Volume **14**, number **2/3** April-September 2002, pp. 217-228.

Obiedkov, S.A., Personal communications 2001-2003. Russian State University for the Humanities, Moscow, Russia.

Oosthuizen, G.D., 1991, Lattice-based Knowledge Discovery. In *Proceedings of AAAI-91 Knowledge Discovery in Databases Workshop*, Anaheim, pp. 221-235.

Oosthuizen, G.D., 1994, A Dynamic Indexing Mechanism for Memory-based Reasoning. *Proceedings of the international AMSE conference on 'intelligent systems'*, SMSE Press, pp. 127-136.

Oosthuizen, G.D., 1994, The application of concept lattices to machine learning. Technical Report CSTR 94/01 Department of Computer Science University of Pretoria.

Oosthuizen, G.D., and Avenant, C., 1992, Integrating Similarity- based Learning and Explanation-based learning. *South African Computer Journal*, **6**, 1992, pp. 72-78.

Pasquier, N., Bastide, Y., Taouil, R., and Lakhal, L., 1999, Discovering frequent closed itemsets for association rules. In *Proceedings of 7th International Conference on Database Theory (ICDT)*, Jerusalem, Israel, January, pp. 398-416.

Pernelle, N., Rousset, M.-C., Soldano, H., and V. Ventos, 2002. In *Journal of Experimental & Theoretical Artificial Intelligence, Special issue on Concept Lattice-based theory, methods and tools for knowledge Discovery in Databases*, Volume **14**, number **2/3** April-September 2002, pp. 157-188.

- Quinlan, J.R., 1986, Induction of decision trees. *Machine Learning*, **1**(1): pp. 81-106.
- Salton, G., 1989, *Automatic Text Processing: The Transformation, Analysis, and Retrieval of Information by Computer*. Reading, MA: Addison-Wesley.
- Stumme, G., Wille, R., and Wille, U., 1998, Conceptual Knowledge Discovery in Databases Using Formal Concept Analysis Methods. In *Proc. 2nd European Symposium on Principles of Data Mining and Knowledge Discovery (PKDD'98), Nantes, France*, pp. 450-458.
- Stumme, G., Taouil, R., Bastide, Y., Pasquier, N., and Lakhal, L., 2000, Fast computation of concept lattices using data mining techniques. In *proceesings of 7th International Workshop on Knowledge Representation meets Databases (KRDB 2000), Berlin, Germany*, August 21-22, pp. 129-139.
- Valtchev, P., Missaoui, R., and Lebrun, P., 2000, A Partition-Based Approach Towards Building Galois (Concept) Lattices, Rapport de recherche no. 2000-08, Département d'Informatique, UQAM, Montréal, Canada.
- Valtchev, P., and Missaoui, R., 2001, Building concept (Galois) lattices from parts: generalizing the incremental methods. *Conceptual structures: broadening the base, 9th International conference on conceptual structures, ICCS 2001, Stanford*, Springer, pp. 290-303.
- Vogt, F., and Wille, R., TOSCANA - a graphical tool for analyzing and exploring data. In: R. Tamassia, I. G. Tollis (eds.): *Graph Drawing*. Springer, Berlin-Heidelberg-New York 1995, pp. 193-205.
- Wille, R., 1982, Restructuring lattice theory: an approach based on hierarchies of concepts. In I. Rival (ed.) *Ordered sets* (Dordrecht & Boston: Reidel), pp. 445-470.
- Wille, R., 2001, Why Can Concept Lattices Support Knowledge Discovery in Databases?. In *proceedings of ICCS-2001 International workshop on concept lattices-based theory, methods, and tools for knowledge discovery in databases (CLKDD'01), Stanford University, Palo Alto*, Springer, pp. 7-20.
- Wille, R., 2002, Why can concept lattices support knowledge discovery in databases? In *Journal of Experimental & Theoretical Artificial Intelligence, Special issue on Concept Lattice-based theory, methods and tools for knowledge Discovery in Databases*, Volume **14**, number 2/3 April-September 2002, pp. 81-92.
- Xie, Z., Hsu, W., Liu, Z., and Li Lee, M. 2002, Concept lattice based composite classifiers for high predictability. In *Journal of Experimental & Theoretical Artificial Intelligence, Special issue on Concept Lattice-based theory, methods and tools for knowledge Discovery in Databases*, Volume **14**, number 2/3 April-September 2002, pp. 143-156.
- Yevtushenko, S., 2002, BDD-based Algorithms for the construction of the Set of All Concepts. In *Contributions to ICCS 2002, Borovets, Bulgaria*, pp. 61-73.
- Zabeshailo, M.I., Ivashko, V.G., Kuznetsov, S.O., Mikheenkova, M.A., Khazanovskii, K.P., and Anshakov, O.M., Algorithms and Programs of the JSM-Method of Automatic Hypothesis Generation, *Nauch. Tekh. Inf.*, Ser. 2, 1987, no. **10**, pp. 1–14.