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Publications

PhD Thesis / Thèse

1. L. Szathmary. *Symbolic Data Mining Methods with the Coron Platform.* PhD Thesis in Computer Science, University Henri Poincaré – Nancy 1, France, Nov 2006

International Journals / Revues internationales avec comités de sélection et actes

1. L. Szathmary, P. Valtchev, A. Napoli, R. Godin, A. Boc, and V. Makarenkov. A fast compound algorithm for mining generators, closed itemsets, and computing links between equivalence classes. *Ann. Math. Artif. Intell. (AMAI)*, 70(1–2):81–105, 2014

2. L. Szathmary, P. Valtchev, and A. Napoli. Generating Rare Association Rules Using the Minimal Rare Itemsets Family. *International Journal of Software and Informatics*, 4(3):219–238, September 2010

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2. L. Szathmary, P. Valtchev, A. Napoli, R. Godin, A. Boc, and V. Makarenkov. Fast Mining of Iceberg Lattices: A Modular Approach Using Generators. In *Proc. of the 8th Intl. Conf. on Concept Lattices and Their Applications (CLA '11)*, pages 191–206, Nancy, France, 2011

3. H. Mili, P. Valtchev, Y. Charif, L. Szathmary, N. Daghrir, M. Béland, A. Boubaker, L. Martin, F. Bédard, S. Caid-Essebsi, and A. Leshob. E-Tourism Portal: A Case Study in Ontology-Driven Development. In *E-Technologies: Transformation in a Connected World*, volume 78 of *LNBIP*, pages 76–99. Springer, 2011

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6. L. Szathmary, P. Valtchev, A. Napoli, and R. Godin. Efficient Vertical Mining of Frequent Closures and Generators. In *Proc. of the 8th Intl. Symposium on Intelligent Data Analysis (IDA '09)*, volume 5772 of *LNCS*, pages 393–404, Lyon, France, 2009. Springer

7. J. Baixeries, L. Szathmary, P. Valtchev, and R. Godin. Yet a Faster Algorithm for Building the Hasse Diagram of a Galois Lattice. In *Proc. of the 7th Intl. Conf. on Formal Concept Analysis (ICFCA '09)*, volume 5548 of *LNAI*, pages 162–177, Darmstadt, Germany, May 2009. Springer

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9. L. Szathmary, P. Valtchev, A. Napoli, and R. Godin. Constructing Iceberg Lattices from Frequent Closures Using Generators. In *Proc. of the 11th Intl. Conf. on Discovery Science (DS '08)*, volume 5255 of *LNAI*, pages 136–147, Budapest, Hungary, Oct 2008. Springer

10. J. Lieber, A. Napoli, L. Szathmary, and Y. Toussaint. First Elements on Knowledge Discovery Guided by Domain Knowledge (KDDK). In S. B. Yahia, E. M. Nguifo, and R. Belohlavek, editors, *Concept Lattices and Their Applications (CLA 06)*, Lecture Notes in Artificial Intelligence 4923, pages 22–41. Springer, Berlin, 2008

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15. L. Szathmary and A. Napoli. CORON: A Framework for Levelwise Itemset Mining Algorithms. In B. Ganter, R. Godin, and E. Mephu Nguifo, editors, *Suppl. Proc. of the Third Intl. Conf. on Formal Concept Analysis (ICFCA '05), Lens, France*, pages 110–113, Feb 2005. (demo paper)

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18. L. Szathmary and A. Napoli. Towards knowledge management using Galois lattices. In *Proc. of the 6th Intl. Conf. on Applied Informatics (ICAI '04), Eger, Hungary*, pages 403–417, 2004

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1. M. Kaytoue, A. Napoli, and L. Szathmary. Une brève présentation du système de fouille de données Coron. In *Extraction et gestion des connaissances (EGC '12)*, pages 603–606, Bordeaux, France, 2012. (in French)

2. B. Ducatel, M. Kaytoue, F. Marcuola, A. Napoli, and L. Szathmary. Coron : Plate-forme d'Extraction de Connaissances dans les Bases de Données. In *17ème conférence en Reconnaissance des Formes et Intelligence Artificielle (RFIA '10)*, pages 883–884, 2010. (demo paper, in French)

3. S. Maumus, A. Napoli, L. Szathmary, and Y. Toussaint. Réflexions sur l'extraction de motifs rares. In M. Nadif and F.-X. Jollois, editors, *Comptes-rendus des 13èmes rencontres de la Société Francophone de Classification (SFC '06), Metz, France*, pages 157–162. Presses Universitaires de Montréal, 2006

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6. L. Szathmary and A. Napoli. Les treillis de Galois pour l'organisation et la gestion des connaissances. In M. Chavent, O. Dordan, C. Lacomblez, M. Langlais, and B. Patouille, editors, *11èmes Rencontres de la Société Francophone de Classification (SFC '04), Bordeaux, France*, pages 298–301, Sep 2004. (short version)

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1. L. Szathmary and A. Napoli. Knowledge organisation and information retrieval using Galois lattices. In R. Dieng-Kuntz and N. Matta, editors, *Workshop on Knowledge Management and Organizational Memories – ECAI '04 (16th European Conf. on Artificial Intelligence), Valencia, Spain*, pages 73–78, Aug 2004

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utilisées seules ou en combinaison. In *Workshop on Fouille de Données Complexes dans un Processus d'Extraction des Connaissances – EGC '05 (5èmes Journées d'Extraction et Gestion des Connaissances), Paris, France*, pages 73–76, 2005

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2. L. Szathmary, S. Maumus, and A. Napoli. Mining Rare Association Rules. LORIA Research Report 00102909 (`http://hal.inria.fr/inria-00102909`), Oct 2006

3. S. Maumus, L. Szathmary, A. Napoli, E. Albuisson, and S. Visvikis-Siest. Towards a global methodology for mining cohorts with biological and genetic data. Rapport de Contrat, Nov 2005. (Contrat de Plan Etat-Région, PRST Intelligence Logicielle)

Miscellaneous / Autres

1. L. Szathmary and A. Napoli. CORON: A Platform for Itemset Mining Algorithms. In *Fourth Intl. Conf. on Formal Concept Analysis (ICFCA '06), Dresden, Germany*, Feb 2006. (oral communication and demo, without paper)

Software / Logiciel

1. L. Szathmary and A. Napoli. The CORON Data Mining Platform. (`http://coron.loria.fr`)